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## Good Things To Eat

 for the little ones must be nutritious as well as appetizing.
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Heavy "IDEAL" Fence 을 Mado throughout of Full Geupo No. Carrice in atoed ridio.
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 " IDEAL" Lawn Fence and Lawn Gates

Improved "IDEAL" Farm Gates


MEDIUM HEAVY 66IDEAL" Fence
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It is a fact that the car has demonstrated its stamina to farmers in every province-its capacity to stand all kinds of punishment without damage.

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Examine its bright, weather-resisting enamel finish
See how easily its detachable upholstery removes for carrying farm produce to, town, or farm supplies from the city.
Experience its many conveniences, such as electric starting and lighting, and three-speed transmission.
Note how high-grade and complete it is in every respect.
To fully appreciate how smoothly it rides, pick out rough roads and drive it.

Then you know what a wonderful car the Overland really is for rural districts and varied uses on the farm, and Why it is gaining in popularity emont fermers.

In one large Canadian plant, the Overland is built under the supervision of Canadians who appreciate Canadian conditions and build accordingly.
Have your nearest Overland dealer demonstrate this car over a particularly rough stretch of road.
Or send for illustrated catalogue.


Corn Smut
(Experimental Farms Note
The smut of corn is well known to farmers. as swollen outgrowths may be found on the ears, stem or leaves. These outgrowths are sometimes quite large and make the smut very conspicious They are at first covered by a and membrane, whe mass of spores. The exposs the becomes powdery and the myriads of spores which each mass con tains are readily blown about by the wind. It is these spores that spread the disease during the growing season and carry the smut over the winter to the next crop. In many of the smuts, as the smut of oats and the stinking smut or bunt of wheat, the spores get on ching with it the seed phe the seedling. Treat and attack the young seedring dehyde is effective in killing the spores on the seed and preventing infection of the young plants. In the cases of the loose barley of wheat and the spores are blown about at blossoming time and grow into the very young seed. is used to kill the smut inside the seed is used to kase of corn smut seed treatment of any kind has been found to be of no use, as the smut spores live over in the soil or in manure rather than in or on the seed. So the only way to controut
the corn smut is to prevent the smut spores getting into the soil or the manure. Not only do the spores they may actually pile for some rapidly in number if the conditions are favorable.
Corn smut is found in all parts of Canada where corn is grown, but is more
common in Eastern Canada. Generally it is not very prevalent and the losses are flot great. Where it is common, measures should-be taken to prevent its spread. The smut masses shoul be should be gemoved before they have broken open and spread their spores. They should not be left lying where they may reach manure or refuse and be be gathered and burned. Rotation of crops is also valuable in preventing corn smut. The smut does not live long in crop 10 wher the smut to die out in the soil before another crop of corn is planted Seed treatment has not been found to be of any use in ologist.
"'Practical "Horse Talk. Copies of the following suggestions were sent care of horses in hot weathe papers in Massachusetts by the Angel Memorial Animal Hospital, Boston.
The Horse to His Driver in Summer If a horse could talk he wou d have many things to say to his driver in summer. He would say:-
often when the heat is intense, a little at a time if I am warm eaten, and always at night when I have eaten my hay
"When the sun is hot let me breathe once in a while in the shade of some o it kent wet, or unless the air can irculate freely underneath it.
"If I stop sweating suddenly, or if 1 ct strangely, breathe short and quick, at once, remove harness and bridle, wash out my mouth, sponge me all over, shower my legs, and give me two ounces of aromatic spirits of ammonia, or two f water sweet spirits of nitre in a pint my head at once, using cold water or if "A warm night in a narrow stall neither. roperly cleaned nor bedded unfits me for "Turning the hose on me is $+\infty 0$ risku thing to do unless you are looking for a Spraying the legs and feet ould am "Please sponge out my eyes and nose and dock when I come in tired and dusty night with clean cool water, and also

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## We Train Workmen Specially in our En-ar-co School rez <br>  <br>  <br> for the scientific production of <br> Enarco <br> Motor Oil

Scientific processes of refining, developed during 35 years of experience and testing in the En-ar-co laboratories, are not entrusted to "green" hands when it comes to manufacture.

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White Rose Gasoline A pure, dry engine fuel, that means extra power and "pep."

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who have passed strict examinations in our special school, are employed in the production of En-ar-co Motor Oil.
This ensures a uniformity of quality that makes Tin-ar-co Motor Oil absolutely dependable. It never varies: every barrel is the same.

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Scientific refining has made En-ar-co Motor Oil a perfect lubricant for your tractor, car, truck, stationary or other farm engine. And perfect lubrication means more power and longer life for the engine.

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CREAM SEPARATOR SUPERIORITY
Naturally the cream separator does_not'make or break the average farm user. The majority of them have no sure means of knowing just what their separator may be saving or wasting.

But the big user in the whole milk creamery or city milk and cream plant does know, and in the long run the separator means
 success or failure in his case.

That's the reason why $98 \%$ of the world's users of factory size cream separators use the De Laval, and why the few such machines of other makes occasionally sold soon find their way to the scrap heap.

And it may well be remembered that De Laval superiority means relatively just as much to the small as to the big user. Ten dollars a month means as much to the farmer as ten dollars a day to the creameryman.

It's not only a matter of quantity and quality of cream, but of capacity, labor saving, dependability and durability over a long term of years.

A De Laval catalogue helps to make these facts'plain. The trial of a De Laval machine does so better still. Every local De Laval agent stands ready to prove them.

If you don't know the nearest De Laval agent, simply address the nearest main office, as below.
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Threshing is a short-season Altogether, breakdowns are very exbusiness. Every day counts. pensive for a threaherman. That s If you miss a day or two, or at the start, and that's why we build even part of a day during the our machines, with such great overthreshing season, you lose a part of your proits, with we choose the highest grade of ma-
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Preston Steel Truss barns save hundreds of dollars for the man who has been burned out and has to have a barn to store his crops.
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the harvesting season. Within twenty days after the fire. Mr. the harvesting season. Within twenty days after the fire. Mr. Truss Barn. No other type of construction
could have been erected
so quickly or sive the so quickly or give the sults.


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# The Farmer's Advocate and PERSEVERE SUCCEED Home Magazine 

## EDITORIAL.

If you haven't yet swatted the rooster, swat him

The hens that lay well during July and August are likely to lay well next winter

If all men were really neighborly would be the simplest thing in the world.

It is going to take a lot of hard sledding and years of effort to oust the scrub bull from his position on the farms of Eastert Canada

On many farms an extra silo is needed for summer silage, and on others there are no silos at all. Now is the time to make plans for building.

If milk producers for the city trade are to get an eight months' winter price, it will soon be time to think about what a fair price ought to be.
The Ontario Milk and Cream Testing Act cannot go into effect too soon. There are many complaints throughout the country of unfair tests,

The recent rains have meant a great deal to the crops throughout Ontario, although it is too much to expect that they will be able to bring the hay crop along as fast as if they had come earlier.
On June 17 we saw some alfalfa well up to 75 per cent. in bloom in the County of Peel. In that neighborhood a little alfalfa had already been cut, while in the Hamilton district cutting was quite general. The rains would not be of any benefit to these fields.

It is a source of satisfaction to know that the Pro-vincial-Government is at last about to put the practice of veferinary science in Ontario on a footing of equality with other professions. The day of the old-time "horse doctor" passed years ago, but its passing has just been officially announced.

If attempts have actually been made to bribe members of Parliament, those to whom the bribes were offered should not have mentioned the matter unless they were prepared to make known the names of the offenders. Treason is the only political crime more serious than bribing a government member or official.

Notwithstanding the remarkable development co-operation by the United Farmers of Ontario and ather provinces, its growth in individual localities is comparatively slow. The spirit of indifference and independence must first be overcome, and we believe that social gatherings, picnics,
ward attaining this end.

The Federal Government may be doing a good thing in cleaning up some of the waste in the government service, but we cannot see that letting good experienced men go for the sake of a reasonable increase in salary fits in very well with this policy. A policy that provides for mediocre men at low salaries inevitably means a larger number of civil servants and less efficienc

The Animal Diseases Eradication Board has a big task' ahead of it. The control of tuberculosis, hog cholera and kindred diseases is one of the biggest agricultural problems of the day, and we are hopeful that the new board composed of producers, packers and o act more effectively than has been possible in the past for government agencies acting alone.

## Alternative Milk Markete

The rapid and comparatively recent growth in Canada of the condensed and milk powder business has added another factor to the milk marketing problem which has proven at times to be somewhat disturbing. The producer who forsook the cheese factory or the creamery for the condensery or powder factory has not found, in all cases, a bed of roses. The first thing he found was that he sometimes felt dissatisfied about the price he was getting, just as he tued to do when the millwent to the cheese factory. He also realized later on that though he was only a cog in the wheel before, the wheel was bigger now and himself a figure of less significance than when he patronized the local factory. In other words, changing his patronage from the small community cheese factory to the large manufacturing frm with no particular responsibility to the community, threw him into a wider circle where he was farther from the centre of control and lessened his individual importance. In cases of dissatisfaction on any score, his individual protest had lost some of its effectiveness. The large volume of milk handled by the condensery or milk powder plant made his individual contribution of less importance relatively and unless he could regain or better his former status by joint action with other patrons, the only thing he could do was to "grin and bear it" or get out. But even the banding together of patrons into local milk producers' associations has been, in many cases comparatively ineffective so far as they have gone, for the reason that the demtand for a large volume of milk has caused the establishment of receiving stations of subsidiary plants in practically all territory contiguous to the larger and original plant of each company. This has resulted in the acquiring or closing down of nearly every competing cheese factory in some districts, and the condensery or powder factory in such districts has become virtually master of the fieldsometimes to the serious discomfiture of its patrons. We have in mind one plant which, deliberately or not, has by this method gained practical control of about 150,000 pounds of milk daily, leaving no desirable alternative market for its patrons, who probably number several hundred.

Whether this was done deliberately or not does not alter the fact that it was good business for everyone but the producer. He, however, can scarcely blame anyone but himself because other people cannot be depended upon to look after his financial interests to the detriment of their own. Condenseries and powder factories are carrying on important and legitimate businesses, and where a large volume of milk is required the most natural thing to do is to endeavor to get it and keep it. It is for the producer to remedy his own conditions and we believe a remedy is available if it is adopted. Organizations such as the Ontario Milk and Cream Producers' Association are splendid and necessary, but they must be backed up by more permanent local associations than are at present affiliated with it. If producers are dissatisfied they must be prepared to market their milk elsewhere, but to do this effectively and to get the best market for the milk of a community, action must be co-operative or collective rather than individual.
An article in this issue (the fourth of a series now appearing in "The Farmer's Advocate") suggests co-operative milk distributing plants as the mcst practicable method for marketing the milk produced in a community. There is no reason why such a method of selling milk should not prove eminently successful. There is no reason either why the individual milk producer should not have within his reach several alternative markets. Not much of an investment would be required on the part of each patron to put the whole milk market, the cheese market, the butter market and the cream market within the reach of every milk producer in the community. Moreover,
the patrons could elect aninullly a board of directots who would handle the entire production of all members for the year, and these few men could handle the resulting large volume of milk to much better advantage than each individual member could handle his own small supply. There is no reason that we can seo why the milk of the organization should not be hauled to the milk of the organization should not be hauled to the factory co-operatively, tested there, and delivened there
to the purchaser if disposed of as whole milk. Cooperation is needed in the milk-producing business as much or more than in any other branch of agriculture. Co-operative selling of milk is the most business-like method of. sale for the dairymen, and is also the most satisfactory way of remedying the conditions that now exist in some condensery and milk powder districts: The producérs should never have let the cheese factories get away from them, but co-operation can still remedy this oversight.

## O. A. C. Courses.

Last week we announced a change in the courses which will henceforth be given in agriculture at the Ontario Agricultural College. These changes we believe to be for the better, and we are glad that the Minister of Agriculture has decided to put them into effect. For forty-five years the Ontario Agricultural College has been materially contributing to the agricultural. progress of Ontario and of the Dominion as a whtole. In fact, its sphere of influence has extended over the whole world, for students have been drawn by the excellence of its courses from the four quarters of the globe, and a very large percentage of them have gone out to add further lustre to its previous high standing among institutions of its kind. Its graduates fill important positions all over the North American Continent; many of the colleges and experiment stations of the United States are directed by former O, A. C. students: and farmers and professional agriculturists in rearly every country lead the way in agriculture for their fellow countrymen by virtue of their training here.

However brilliant the success of the O. A. C, a change in the courses must prove an advantage. The primary function of the College was to give the Ontario farm boy an opportunity of coming into closer touch with the best of agricultural art, and with sufficient of the several contributory sciences to enable him to return to the farm at the end of a two-years' course better equipped to achieve success in animal and crop production, and to understand the nature of his problems. as they developed. It was not intended that the farm boy should be lured from the farm by the hope of a degree and a professional position, but the combining of the two-year practical course and the four-year degree course undoubtedly did have a tendency to bring this about. The prospect now is for a two-year course designed to be as practical à possible, so that the boy who is going back to the farm will be given nothing-that will afterwards prove unnecessary to him as a practical farmer and an industrious, intelligent citizen.
It is not, we hope, with any prospect of lessening the practical knowledge of the professional agriculturist that the four-year or degree course is separated fromthe shorter and more simple associate course. It would be wise rather to insure even more practical knowledge by requiring additional practical experience before entering. At least this would be advisable on the part of those who are to take the Agricultural, Horticultural, Dairy or Poultry options. Generally speaking, the requirement of Junior Matriculation standing will make it more likely that the graduate will take his place ably as a professional exponent of the world's. primary industry, especially if it is strengthened by a strong course designed to teach the principles of agricultural science and organization. The men who lead the way in live stock and crop production, in horticulture, dairying, and poultry husbandry must be strong men

## The Farmer's Advocate

 AND HOME MAGAZINE. the leading agricultural journal in thePubished weekly by<br>THE WLLLIAM WELD COMPANY (Limited)

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well equipped to meet each problem as it arises and they must qualify for either farm management, teaching, Investigation or research. It ts perhaps a fair criticism of the past history of the College to say that a few men have been graduated who should not have been given the degree. It is possible, too, that under the new arrangement a few men will not take the-four-year course because of the necessity for Matriculation standing, who would otherwise go on and become a credit to the institution and their calling. Time may bring about a medification of the present proposals to take students particularly successful in the more practical subjects, and have a desire to take up professional work We feel that the change is in the right direction, but experience alone

Disease-free live stock should be the aim of every one interested in the live stock industry. The tuberculin test properly conducted with reliable tuberculin There may be poor lots of tuberculin placed on the There may be poor lots of tuberculin placed on the
market, and the material may have been used by some unscrupulous persons to their own gain, which has made some dubious of its effectiveness as a detective of the
disease. The material may be procured quite easily, and it is unfortunate that the different brands have not always given similar results. Having the tuberculin under Government control should insure greater uni formity in the qualts
more accurate results.
It is estimated that Canada produced in 1919 dairy products to the value of $\$ 251,526,201$ made up of the
following: Chece, $167,734,982$ lbs.; creamery butter 101,554,131 lbs.; dairy butter, $125,000,000$ lbs.; butter, $1,396,814 \mathrm{lbs}$.; cassin, $199,013 \mathrm{lbs}$; sterilized evaporated milk, 16, $107,934 \mathrm{lbs}$.; condensed skim-mill. 494,973 lbs.; milk powder, 6,591,099 llss.; ice cream 2,892,974 gallons; milk sold as milk, worth $\$ 72,000,000$ :
buttermilk worth $\$ 254,147$; butter-fat in cream sold, buttermik worth $\$ 254,147$; butter-fat in cream sold,
$6,380,727 \mathrm{lbs}$.; whey crean, $414,627 \mathrm{lls}$.; whey worth $\$ 55,665$. The dairy industry shows a steady growth
as by a study of the figures, showing the total numbe of dairy patrons, which give 252,416 as the number for 1918, as compared with 212,927 for $1915,221,192$ for 1916, and 248,683 for 1917.

## By-Products and Loose Ends.

It is the marvel of the uninitiated that business firms doing a large manufacturing or other mercantile busi ness can sometimes suffer large temporary losses, due to fluctuating markets or other adverse conditions without serious handicap. They are not seriously crippled by these losses, as a rule, and can weather the storm without much more than temporary inconvenience. The reason for this, in most cases, is the fact that the business is conducted along lines of efficiency and al loose ends are carefully checked up as the business progresses. If it is a manufacturing business in all probability there are valuable by-products which are made use of to the best possible advantage. In fact one very frequently hears this statement: "We make practically all of our money out of this end of our business, reference being made to a feature which in all probability would escape the eye of the average man but which serves, nevertheless, as a balance wheel in the operations of the company, and provides revenue from which occasional and inevitable losses on the main product can be met. In other words, the successful merchant, manufacturer or other business man develops his by-products, and gathers up all the loose ends of his business to act as a sort of profit insurance in times of depression. These odd items of revenue thus have a steadying effect on the business like the governor on an engine

There are many by-products of the farm and many loose ends also, but it cannot always be said that the farmer's failure to secure a satisfactory return for his year's work is in spite of careful attention to these details. Too often it is because of lack of such attention. The individual farmer does not, in the usual sense of the word, supply a product which bears his own individual brand, as is the case with the manufacturer He sells milk, butter, prime steers, number one oats or wheat, or number one apples, as do thousands of other farmers, while the manufacturer caters to the whims of a consuming public with articles made distinctive by his brand and method of manufacture, and stamped with the individuality of his firm. The manufacturer makes a market for his product that he can at least partly control, and supports the framework of his business with a careful utilization of all raw material not required for the main articles manufactured. The farmer supplies the world's market and does not control it. Given an equal acreage, equally fertile land, equally good live stock and equal ability as feeders or growers of crops, two men engaged in farming may make the same amount of money from the same kind of crops and live stock, because the consumer pays practically the same for both products which, in this case, also cost practically the same. Farming is a business of few or no special markets. The man who succeeds above his fellows uses his capital to better advantage, or he seizes upon some small sources of revenue that his less successful neighbor neglects. Perhaps he begins to use a pure bred bull instead of a scrub or grade, and thus gets a greater return for feed and labor. Perhaps he takes the flock with gocd layers, or treats his seed grain for smut. He may plan a more efficient rotation, or erect a silo for summer use, or feed a better balanced ration to his stock. He may suffer less loss of live stock from He may be a co-operator and save a little here and there in buying or selling. In short, he can only be open wider: - The question is merely one of taking better advantage of the same ultimate market. So many many avenues of wast. with its comparatively small capital investment, that
in farming as in "big" busimess, the who gathers (iip the loes: ends and keens an eaclo e.

 pasture. Flies and the sum should nevet be allowed Keep in a darkened stable, or allow to months old.

In the waters of our lakes, ponds and streams ther is a great wealth of life, and a little while spent in close observation at the margin of any body of fresh water will lead to the discovery of many extremely interesting forms of animal life.

Insects are abundant in pools, lakes and streams, as they are in every habitat we investigate, the adults of a good many species living there, and the young of hosts of other species which are aerial the their adut
state, such as the dragon-flies, damsel-flies, shad-flies and caddis-flies.

A good number of the adult insects which are found in the water belong to the order Hemiptera, that is the order of Bugs in the true entomological sense, and not in the loose sense in which this much over-worked word, bug, is used in popular parlance. Very common are the (Fig 1) They are usually seen swimming about on th (Fig. 1.) but they can descend below the surface and surface, but they can descend below the surface and
remain there for a long time, since they carry down with them a film of air held by the fine hairs which cover the


Fig. 1-Corisa. Fig. 2-Notonecta undulata
body. They have very sharp beaks, by means of which they pierce the bodies of other aquatic animals and such their juices, and, like some of the other water-bugs, pierce the skin of one's finger. Their egrs are cattached pierce the skin of one's finger. Their eggs are attached to the stems of aquatic plants. When the cold weathe
comes on the Water-boatmen descend to the bottom and hibernate in the mud.
The Back-swimmers, another group of aquatic bugs, swim, as is indicated by their name, with the back downwards, propelled by the powerful strokes of their long, oar-like, hind legs. (Fig. 2.) The eggs are laid in the stems of water-plants, which are pierced by the being pushed into the stemale, two-thirds of the egg protruding. The Back-swimmers feed on small fish and other aquatic animals, which they kill with their sharp beaks. When they dive they carry down so much air, held in the hairs of the body, that they have to hold on to some submerged object with their front legs to prevent themselves from popping to the surface. bugs which may be seen skating over the surface of still bugs which may be seen skating over the surface of stil
waters. One can discover how these insects are able to skate over the surface of the water by looking at the shadow of a Water-strider cast on the bottom of shallow water. We notice that the shadow shows a rounded spot at the end of each of the four legs which touchlthe
water. This spot is caused by the bending in of the


Fig. 3-A Water Strider. Fig. 4-Water Scorpion surface film of the water by the insect's foot, and they are not wetted, and their slight weight thus dimples,
but does not brcak through, the surface film. The Water-striders feed on insects, both living and dead, which they find on the surface of the water. The eggs are laid on the leaves and stems of water plants and in the mud of the banks. The Water-scorpions (Fig. 4) are bugs which crawl tail-like projection at the posterior end consists long, half-tubes, which when brought together form a cylinder that conveys air to the insect when the rest of the body is submerged and the tip of the tube is projecting. The eggs are pushed into the stems of aquatic plants with the ovipositor. These eggs are peculiar in that they have several long filaments which project from the slit
in which they are laid. The Water-scorpions feed on in which they are laid. The Water-scorpions feed on

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nuch over-worked word,
 win as Water--boatmen swimming burface the
below the ce they carry own widh
ne hairs which cover the

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aks, by means of which quatic animals and sucl
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When the cold weat el group of anuatic bure name, with the bad verful strokes of theit The eggs are laid in
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e body, that they have popping to the surface. re long-legged, aquatio over the surface of still
hese insects are able to
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Farm Labor and the Cost of Living. By Allan McDiarmid.
By chance I recently met a farmer who had just come across from England to visit his son, who was homesteading a section of land in Saskatchewan. He was anxious to get what information he could of this
country and was equally willing to tell all he knew of conditions in the land he had come from.
The subject of prices and the general cost of living is always interesting and it wasn't long till he got around things have increased in this country since the war, we've beaten you to it in Great Britain, and most of the other old lands. Take the price of hay for instance. When I leff it was selling at 616 a ton, or over $\$ 80$ in your money. Oat-straw was worth thirty-five dollars
a ton, and wheat-straw about thirty. Pork brought a ton, and wheat-straw about thirty. Pork brought
the farmer fifty cents a pound, dressed, and beef very little less," " for what the farmer has to buy?"
"Well", he replied, "before the war we could get a
self-binder for one hundred and ten dollars. Now the cost $t$ wo hundred and twenty-five. $A$ mower cost fifty dollars then, now you can't get one less than one
hundred. We used to pay the blacksmith les than hundred. We used to pay the blacksmith less than
half what he fow charges for shocing our horses. For halt what he how charges or shoeing our horses . For
new shoes for a heavy horse it costs us just five dollars.
"As an example of the way things go at auction sales I saw, just before I came away, a lorry, somewhat
similar to your lumber wagons, sold for two hundred similar to your lumber wagons, sod it ort wo hundred
and forty dollars. A A few years ago it had been sold at another sale for fifty.

If a farmer wants to retire and move to town it will cost him four thousand dollars for a cottage that he
could have bought for five hundred before the war. could- have bought for five hundred before the war. can't be had for less than forty. Farmers have made a han they were are those that have not been compelled to buy much in the way of live stock or implements. In other words, those w
rise in prices began.
"It is in paying for labor that the average farmer over in England gets hit the hardest. The labor unions are begining to get control of the farmer's hired help,
and there is going to be some trouble in reaching a and there is going to be some trouble in reaching a-
satisfactory settlement of the question. The laborsatisfactory settememt oint-hour-day, on the farm, as else-
unions want an eight Where, and, of course, this don't suit the farmer, who
would have to pay his men on wet days, when they were idle perhaps half the time, and then get only the e eight hours of work from them on fine days when there might be a chance to make up for time that had been lost. The heads of the labor unions have told the farmers
that they will isue special permits to allow the men to that they will issue special peramst to requested by the
work overtime on certain days ar work overtime on cerrain wouls have to be paid for at the rate of ffty per centi. extra, and double time for any
work done on Sundays. But the difficulty about this special permission business is that there isn't time for the farmer to send in his application and have it attended to after he sees that the weather is going to be favorabte for his work. The problem is going to take a good deal
more working out before the farmer and his help are more working
"No question about it, the eight-hour-day is too short, if the production of the farms are going to be kept up: This applies particularly to the seedume and to hay the and harvestinfy. Su many bours a dyy and pay by the beyond a certain point production falls off, in spite of the extra rest and recreation the laborer may get. A
short day is supposed to bring increased efficiency, but short day is supposed to bring increased efticiency, put
for two or three months, it is is bil nonsense to suppose that a man can't be up to his best, when work wing more than eight hours of the twenty-four. But if the labor unions are going to insist on their demands being granted,
another plan has been proposed that may be tried out before long. That is, to have on the farm what manufacturing concerns call a 'double-shift.' The large farmer who keeps, say six men would have three of them come on carly in the morning, work their eight hours, and
then give place to the other three who would work, for then give pace ter or it might suit better to have eight two in the first part of the day and then have
only the remaining four for the afternoon. In this way y he
farmers machinery and horses would be worked to capacity and ther laborer and the labor unions be satis-
fied. Some sort of a compromise will have to be made. fied. Some sort of a compromise will have to be made,
anyway, as labor thas the matter pretty much in its own hands at present

What wages have you to pay now??" a asked.
friend, "which means about sixty dollars a month my friend, "which means about sixty yolars a month,
as you would put it in this country. We used to get all
 vould be three doliars, and the man had to board himserf
"How in the world could he do it,", said I, "and perhaps
"Oht yes," he returned, he keep a family besides?" "Oh, yes," he returned, he he
nearly always had a family. But the English laboring man used to live a very plain, simple life."
"He surely did, if one can judge from the wages you paid him,", laughted. "t was time I don't know whether anything will ever come of my English but it might be worth thinking over. Payment by the hour and a specified length of day is coming for the farm laborer, it is almost certain, It is the only
thing I know of that will prevent the ast of our help
migrating to the towns. And for the farmer who could keep two, or more hands, the "double-shift" idea may thing better. It has one strong point in its favo It would lead to larger machinery and teams of from four to six horses. Even with one man who would wor for eight hours, the farmer, by working for the balance
of the time, would get in the full, old-fashioned day of the time, would get in the
So everybody might be satisfied.

## THE HORSE.

## Examination of Horses as to Soundness. <br> <br> II.-(Continued.)

 <br> <br> II.-(Continued.)}Having examined the mouth, the examiner will pass his hand carefully and slowly upwards and backwards in the maxillary space, (the space between the branches of the lower jaw) to ascertain whether there be any enlargement or hardening of the sub-maxillary glands. Such a condition of these glands must always be looked upon as suspicious, as it indicates chronic catarrh, of nasal gleet, and, if the glands be enlarged, hardened and adherent to the bone, it indicates glanders. He must then look carefully at the throat, and observa whether there is an enlargement of the glands, either elow the ear or in the region of anterior aspect of the wind-pipe; an enlargement of these glands, while no symptomatic of any serious disease, is still undesirable, and may be considered an unsoundness. He will then place his finger upon, and press upon the juglar vein to ascertain whether it be pervious, which can be told by the vein raising between the point of pressure and the throat. The vein may be obliterated, and still the
single, and not quite close to the joint, is not usually (that is, appearing on both the inner and outer aspec of the limb) or so near the joint that there is danger of the articulation becoming involved, it should be con sidered as constituting unsoundness. Next the fetlock joint should be examined for abnormalities, the most called "wind galls." These, if small and soft, are not called "wind galls. These, if smate and soit, are not considered serious, but in large and tense are quite, labie enlargements in this region must also condemn a horse. Between the fetlock joint and the hoof we must examine carefully for ringbone. A ringbone does not neces sarily entirely surround the pastern, it may be apparent on only one or on both sides, or may extend all around. We must remember that on each side of the lower extremity of the fetlock bone there is a normal protuberance, which is quite apparent in hot-blogded protuberances must not be mistaken for ringbone The existence of ringbone, whether or not lameness be shown, must be considered an unsoundness. We next examine for sidebone. This consists in a conversion into bone of one of the lateral cartilages. The lateral cartilages are two for each foot. They are irregularilyshaped, and one surmounts each wing of the os pedes
bone of the foot). The cartilages can be readily felt in bone of the foot). The cartilages can be readily hool at the healthy horse. They extend above the hoof a each heel, for $1 / 2$ to 2 inches with a somewhat semt skin and are rubber-like to pressure, yield readily, but so soon as pressure be relieved immediately regain their former position. When diseased there is more or less of an enlargement and they gradually become hard and unyielding. Whether or not lameness be shown, the This condition is much more frequently seen in heavy than in light horses.

We should look carefully for sores or eruptions of the coronet, and observe whether the wall of the foot be


Most Teamsters Take Delíght in Working.a Well-kept Heavy-draft Toam.
if he should be turned out on pasture, or fed off the floor, there would soon be a swelling of thê head and throat; hence a horse with an obliterated juglar vein decidedly unsound. The examiner will then carefully look at the withers for existing, or evidence of pre dence of existing or pre-existing fistula should condemn him as unsound. Then the shoulders should be examined for tumors, abscesses or rāw surfaces, any of which constitute temporary unsoundness. Passing downwards, examine the elbow for tumors or abscesses, (called capped elbow), then pass down to the knee,
looking for abnormalities on the fore arm. The knee ooking for abnormalities on the fore arm. The knee should be carefully examined for bonly enlargements, of this condition. It must be understood that the of this "broken knees'r does not necessarily refer to a fracture, as bruises, cuts, etc., that occur as a result of an animal stumbling and falling on his knees; the injury being more or less serious, all go under the name of "biroken knees." Symptoms of present or pre-existent broken knees must always be looked upon as a serious
matter, as it indicates a tendency to stumble, and the matter, as it indicates a tendency to stumble, and the condition is liable to recur at any time. be examined for enlargements, soreness, or thickening of the tisules, which indicate "speedy stroke" (the of thecking of the limb with the shoe of the opposite foot). This habit, which is usually due to faulty conformation of the pasterns and feet, (the toes being turned outwards, called "soldier-toed") causes abscesses, or tumors, and is liable to cause stumbling. While an animal may be sound, any abnormality that has been caused by reason of that conformation must be considered an unsoundness. Passing the hand and eye carefully down
the cannon bone, the examiner feels and looks for splints bowed tendons, buck shins, etc. A splint, if small,
be looked upon with suspicion. We must also examine for fissures running from above downwards (called false quarter), also for sand cracks or quarter cracks, any of Which is sufficient to condemi. che amimal. ane ice should be of equal size and similar in shape, any con-
siderable difference in size and general appearance indicate that the smaller one may at some previous period, have suffered from some inflammatory disease which interfered with the growth of horn, hence the foot is smaller than its fellow, and sometimes uneven and ridgy. The foot should now be lifted and the frog and sole carefully examined for thrush, canker, gutter, seedy toe and other abnormalities. It is good practice
to remove the shoe and pare the sole down in the cuarters to remove the shoe and pare the sole down in the quarters tameness, or any symptoms which would lead the examiner to suspect their presence, but at the same time they are liable to cause lameness at any time hence it is well to remove the shoes and search for them, as a horse with corns cannot be considered sound. When it is considered necessary to remove the shoes for this purpose, it is well to not do so until after the horse has been exercised to test action and wind. WHIP. (To be continued.)

Scraping sods and a good deal of gravel from the shoulder of the road to the ditch does not look like good road-making. Ditches are to take the water off the road, rather than to be blocked with sods to hold water to soften the foundation. The road grader in some men's hands has proven detrimental to good roadmaking.

The newly-formed Canadian Society of Technical Agriculturists will be as valuable as its officers make it.

## LIVE STOCK.

## The Farrrow Sale Makes $\$ 760$

 Average.The Farrow sale of Scotch Shorthorns, held at Hickory Ridge Farm, Oakville, on Wednesday, June 16, was one of the most successful eales of Shorthorn cattle ever held in Ontario. As has been previously mentioned in these columns, Mr. Farrow was retaining the majority of his one and two-year-old heifers, and selling his breeding cows only. There were, in some cases, a calf at foot with these breeding cows, and in every case all were bred to the great young herd sire, Pride of Escana. The heifers which were lister included a number which had been recently purchased of Mr. Gerry, of Belwood, and the majority of these were under ten months of age. Here it is worthy of note that the cows with two or three exceptions were from
eight to eleven years of age, and the heifers were nearly eight to eleven years of age, and the heifers were nearly
all under breeding age, but despite this, the general average for the 38 head was $\$ 760.39$, which brought the
total receipts of the sale up to $\$ 28,895$. Another feature total recelpts or the sair up to $\$ 28,895$. Another feature from Mr. Elliott, of Guelph, and sold, guaranteed to
the service of the newly-imported $\$ 34,000$ sire, Millhills Comet. These heifers brought $\$ 3,975$, or an average of $\$ 1,987$ each. Jealousy Pride, a 14 -months Jealous heifer, made the better price of the two and went to
Sir Frank Bailey, of Oakville, at $\$ 2,500$. A summary of the prices shows that 22 cows made an average of heifers, $\$ 643$. Nine head sold for $\$ 1,000$ and over, and 4 sold for $\$ 1,500$ and over. The cattle were brought out in splendid condition and, from the averages quoted above, it is quite evident that they were appreciated The purchases were all made by Canadian breeders, there being no Americans present. The following is a
list of the purchasers and the prices paid:ist of the purchasers and the prices paid

Females
Scottish Maid 34th, J. J. McAinsh, Guelph
Crimson Vine 3rd, W. F. Batty, Brooklin
Crimson Vine 3rd, W. F. Batty, Brooklin.
235 Nonpareil Countess. McGillawe, Hensall.. 1,350 Nompareil
speare.
Flore Morn
Flore Morn, Sir Frank Bailey, Oakville Athelstane Rosewood 5th, Wm. Griese, Oakville. Victoria Princess 8th, H. McGee, Islington Fairy Queen 7th, Wm. Griese.
Donrobin Rose Girl 2nd, Rae Bros., Corunn
Glen Buell Clipper 3rd, Robinson Bros
Princess Royal 8th, W. J. Rynard, Zephy

Rosebud 18th, Sir Frank Bailey
Mary Ann of Lancaster 34th, Sir Frank Bailey...... 1,100 Glen Buell Mildred 3rd, John Scott, Claremont.... 525 Glen Buell Mildred 14th, J. J. Merner, Seaforth. Red Imogene, H. J. Miller, Keene Getana, Buell Clipper, Claremiont. Glen Buell Clipper, W. J, Rynard..................... Roan Lady O. A. C. 4th, Sir Frank Bailey Glen Buell Mildred 17th, Jno. Miller, Jr., Ashburn Walnut Rosebud, J. F, Osborne, Newcastle
Glen Buell Mi...... Glen Buell Mildred 18th, Blue Mountain Farms,
Newton Tiara (imp.), A. W. Etherington Jealousy Pride (imp.), Sir Frank Bailey
Pretty Princess 4th, Wm. Griese...
Mayflower 3rd, W. Platt, Toronto.
Lady Belle, Thos. Robson, Cookstown
Red Cherry, T. Howie, Paisley.:
Roan Lady, T. A. Russell
Miss Stamford, A. W. Etherington
Clara 40th, J. J. Merner.
Pretty Matchless, W. T. Millson, Chatsworth Roan Lady 2nd, Chas. Barclay, Claremont

## Ormstown's Eleventh Annual Show.

$\mathrm{F}^{\text {ROM }}$ spring show held at Orming in 1910, the annual only become the largest live stock exhibition in Quebec, but the 1920 show which closed on the evening of June 18, was well deserving of a place well up amon the largest live stock shows of the Dominion. It may be or the home of an exhibition of these proportion a plac or the home of an exhinition of these proportions, but drawhack has apparently proved a very slipht handicap and the officers of the show have every reason to fee proud of the show they have built up under existing conditions. The show ground, which includes splendid stabling, as well as a large closed-in live stock arena is well worthy of the attention of many a provincial oxhitition, and the same may be said of the manage Wi. G. McGerrigle. Contrary to the usual prophecy the show has each year depended entirely upon feature agriculturally to draw the attendance, and an increase
of almost 200 per cent. in the gate receipts shown this of almost 200 per cent. in the gate receipts shown this year over any previous year is best evidence that it has met with success. As regards the entry list, figures are probably necessary to show the growth of the exhibition as an educational event. Begginning with the year 1918 the entry ist showed an increase of almost 100 per a third, and the show just closed again run up the figures until the total list exceeded 1,600 entries. Of these 462 were in the horse division, 278 of which came forward in the pure-bred sections; while the cattle, including grades and pure-breds, reached almost 500 entries Inolstetins for the first time, were leading with 189 entries, an increase or overaing so oreat an increase fyrshires, although-not showing so great an increase, rollowed disappointment, there being only a very few entries in one or two classes and among them not more than three which could be said to be show animals. Sheep
and swine entries, although showing an increase in and swine entries, although showing an increase in
numbers, did not strengthen up to any great extent numbers, did not strengthen up to any great extent in quality although there were some fair Shropshires Leicesters which were worthy. The judging in the purebred horse and cattle sections was all carried on in the arena during the day time, while the evenings were given up entirely to the harness classes of the light horse
section. These harness classes have always been relied on to furnish the major part of the evening program, and perhaps no where else in Eastern Canada can a better perf
on Thursday, usually considered the best day of the Mhow, the exhibition was honored by the presence of
Minister of Agriculture, Hon. Dr. Tolmie; the Deputy
Minister of Agriculture, Dr. J. H. Grisdale; the Live Stock Commissioner, H. S. Arkell, and several Quebe representatives of the Federal House, all of which were
guests at the noon-day luncheon, where the Hon. Dr olme, who was the chief speaker, gave some interes ing figures regarding the live stock industry of the
Dominion. At this luncheon Dr. McEchran, the first President and founder of the show, urged upon the
management the advisability of again reviving the public sale of a pure-bred stock, which, until three years ago was held in conjunction with the show, Other speakers complimented the management upon the rapid growt
of the show, and often referred to it as Canada's only purely agricultural exhibition.

For the first time in the history of the show, the
heavy horse sections surpassed in numbers the entrie heavy horse sections surpassed in numbers the entrie
of those in the light sections, commonly called the harness classes of the show. For the most part, these
heavy sections were made up of local horses, there being only one Ontario sta feature, although the dozales,
more Percherons which came forward, included more good horses of this breed than had been seen out in in Clydesdales, while not filled nearly as well as they were in the early years of the show, were considerably heavier than they were last year, and were made up from a number of small stables throughout the Ormstown add, that for the success of Ontario. Here, we might would be well adyised to make the imported clagement done at nearly every exhibition of any impor, as is an open class, and not confine the entries entirely imported horses. An imported horse, which is not able to compete with a Canadian-bred horse, is surely not worthy of the additional expense which he is sure to cost the Canadian breeder. The judges in the horse sections were: Light Horses: Robert Graham, Toronto Clydesdales: With this Gatineau Point, Que. one breeder can be credited with furnishingstown, part of the exhibit. It is doubtful if any show in any of the nine provinces of the Dominion can furnish a larger number of exhibitors, even though they show much greater number of entries., This probably is responsible for the exceptional interest shown about the ring side at this show, where even the racing which is in progress at the same time, fails to attract one found about the Clydesdale spectators that are to be in the heavy horse sections at this show should als for the most part, rightly come under the heading of
Clydesdales. Both the teanis and the in harness, are of sufficient Clydesdale singles, shown appearances, to make them eligible for the pure-bred sections. Like all other shows, during the past few years, imported horses failed to come forward in any in evidence, and if any criticisms are to was much lack of size is probably the only one that could be forth Exhibitors.-R. Ness \& Sons, Howick. David Cavers, Ormstown; L. Papineau, St. Louis; J. G. Wilson, Stottsville; S. McGerrigle, Ormstown; M. Grigg, Allan's St. Anns; J. I. McDougal, Ormstown; Batiste Parent
. Etiene; Taylor Bros., Ormstown; J. C. McEwen Huntingdon; Robert Milne, Ormstown. McEdwards, Bros,ingdon, Robert Milne, Ormstown; Cumming Turner. St Etiene: Andrew Boa, Dorval; Pichas Nussey, Howick: Harry Nussey Howick. Albert Nusey Howick; D. A. McCormick Brysonville: Melville Key Howick; J. T. Thompson, Bainsville; Geo. H. Good fellow, Lancaster, Ont.; Jas. Sangster, Lancaster, Ont, John Logan, Howick; E. C. Budge, Beauharnois Hamilton Elliott, Ormstown; Robert Kerr, Howick; T. Reid, Ormstown; Alex Steele, Brysonville; Robt. L. McCaig, Ormstown; Wesley Peddie, Howick; W. J Geo. Hope, Ormstown; Robt. Elliott, Ormstown. Reid Bros., Chateaugay; R. O'Donnell, Montreal Sn; Reid Bryson, Brysonville; Adam Cullen, Howick.
The aged-class for Imported Stallions included mostly horses that have been out at previous Ormstown shows. Baron Stanley the well-known son of Baron's Pride, never came into the ring in better bloom and easily bone, but not so The 3rd went to Lanark Lad. The th
was represented by one lone entry in Iron Signetass was represented by one lone entry in Iron Signet, a
well-made, short-coupled horse with splendid bone and action both of which easily gained him champione and honors later. The two-year-old class also saw a lone entry in Ness \& Sons newly imported colt, Jutland. This is a very promising individual, although not showing in bloom, and being got by Signet and out of a Dunure colts brought to Canada in years. made up the imported in years. These three classes were only three in number, two of which were well mares the average, while the third had little show ring quality to commend her. Brood màres were also light with three entries only, and the old time winner, Corona, had no difficulty in holding her place at the top. Bonnie Mendel, two newly imported colts, were by themselves in the two-year-old mare class, and naturally had not yet gotten in shape after their trip across the water.
The Canadian breds made ings ever scen at Ormstown. The aged stallion show-


Blackfaces in Their Native Haunts.

Founded 1866
cott, Claremon
Russell, Downs
ant Railey
iller, Jr., Ashburn.
Mountain Earms,
erington
Bailey
Chatsworth.
'Millbrook
ed Wing.

## July 1, 1920

THE FARMER'S ADVOCATE

Was well filled with seven entries, and Spencer of the
Briars again stood at the top over Oakhurst Baron's Briars again stood at the top over Oakhurst Baron's
Pride, although he did not show his old time movement or bloom and the decision may easily have been reversed. Gallant Spencer, another son of Sir Spencer
came 3rd. The stallion forward two entries only but the two-year-old class filled well with eight. The year-old class found nothing sensational, and only three were forward. Three-yearold mares have in the past brought out more quality,
but it may be said that all showed evidence of having but it may be said that all showed evidence of having
earned their way in the harness. The yeld mare class. earned their way in the harness. The yeld mare class,
as usual, made up the best showing of the exhibit, and saw Woodside Janey and Jean of the Briars, two Sir eight matrons, and while th. Brood mares and Daisy Spencer, in 2nd, were outstanding, the class throughout was creditable. Two-year fillies were only
four in number, but each came forward later in separate four in number, but each came forward later in separate entries and helped to strengthen the group sections.
Awards.- Imported) Aged Stallions: 1, Ness on Baron Stanley; 2, Papineau on Sir Robert; 3, Cavers on Signet. Stallion, two years, 1, Nears, on Jutland. Brood Ness on Bonnie Cynthia. Coroma. Yeld mares, 1, Signet. Champion mare, Bonnie Cynthia. Grand champion stallion. Iron Signet. Grand champion mare, Bonnie Cynthia.
(Canadian Breds) Aged Stallions.-1, Taylor Bros. on Spencer of the Briar; 2, Wm. Nussie on Oakhurst Barons Pride; 3 , McEwen on Gallant Spencer; 4, A.
Nussie on Sir Hugo of Cherrybank.- Stallion, 3 years Nussie on Sir Hugo of Cherrybank. Stallion, 3 years, Stallion, 2 years, 1 , Ness on Woodside Rising Star; 2 , Cummings Bros. on Herminius; 3 , Miline on Cherrybank Baron; 4, A. Mucormick on Sir Robert. Stallion, ${ }^{1}$ year: 1, Wm. Nussie; ${ }^{2,}$ Chas. Turner; 3, Arthur Hunter.
Ousen: 2, A Nussie on Da Qusen; 2, A. Nussie on Daiey Spencer; 3, H. Nuesie on
Faronsss Belle; 4, W: J. McGerrigle on Gipsy Warner; 5. Turner on Maude of Tathurst. Yeld mare: 1 , Ness on Woodside Jeanie; 2, McCormick on Jean of the
Briars; 3, Ness on Woodside Lady 4, Wm. Nussie on Briars; 3 , Ness on Woodside Lady; 4, Wm. Nussie on
Oakhurst Water Lily; 5, S. McGreriggle on Tathurst
in every case they have sufficient quthlity to make them with Logan's Kellock Volunteer at the top and another Sunnyside-bred bull in second. Senior yearling bulls brought out well on to a dozen of the best young bulls ever seen at Ormstown. The junior classes ran all the way from seven to fifteen entries and included many promising youngsters. The females, especially those class Chapmanton Henny, the oftimes in the agedthough over 12 months in milk, once more stood at the top with Orange Blossom an exceptionally well-
developed cow in 2nd, and Florence 2nd another cow of the same type in 3rd. Three-year-olds in milk were not a strong class if taken in comparison with the others, while the two-year-old heifers fell off badly with only four entries: The dry cow class brought out a lot of good commercial cows, with very little difference between the top or bottom end of the line. Younger female classes, without exception, were filled to overthe exhibit made at any previous show. Exhibitors,-J. P. Cavers, Ormstown; R. R. Ness, Howick; Chas. Moe, Ormstown; Cummings. Bros. Howick Melvil, D. N. Watt, St. Louis; D. T. Ness James Houston, Riverfield; Robt. Arthur, Huntingdon; J. G. Wilson, Stottsville; Jno. Logan, J. T. Thompson, Howick; Lachlan Van Vliet, Lacolles; C. E. Budge Beauharnois.
Awards.-Aged Bulls: 1, R. R. Ness, on Holeh use Nayor: 3 , D. T. Nesse on Bonnie Bre Ledit Cavero Burnside Fanny Sensier; 5, Watt Lad Kelloch Cavers on Flake. Bull, 2 years: 1, Logan, on Kelloch Volunteen 2, Kerr, on Sunnyside Russel; 3 Wilson, on Maste: Piece Westerni; 5. J. Houston, on Bill Wallace. Senior vearling bull: 1 , Thompson; 2, McArthur. Junior yearling bull: $1,2,3$ and 4, Ness; 5, McArthur. Senior Ness. Iunior hull calf; 2, Wibson; 3, Arthur; 4, D. TD 4 Cavers 5 , Van Vliet, Court in mill. 3 , Arthur Chapmanton; 2 and 3 , Cavers, on Orange Blossom
ach year too sees a marked advancement in the in埌 Very few of the breeders, however, seem at all familiat to the names of the animals, and as there is no catalogue of the entries issued in many cases it is impossibl to get the names when the awards are made. The bull females, although Sangster's senior yearling calf Perfection of Pleasant Valley, which was made champion of the show, is a real outstanding calf, and would stand plenty of competition in any companiy. The aged-bull class, although it numbered 6 entries, was not a strong class, and the two-year-old bulls were very little better. The females, however, especially the aged-cow class, brought forward some splendid individuals, which were in every way well worthy of the breed. In aged cows in milk, Gano's Bessie Faforit, and aloo had an outtandind heifer in 3 -year-olds in milk. The latter was 3 rd-prize heifer at the National Dairy Show last year, and was sold by Mr. Harvey the afternoon of the show for what was stated to be a very pleasing figure. Harvey again had the winner in the class for two-year heifers, in milk. In the dry class for aged cows, 'Sangster won 1, 2 and 3 with cows of his own breeding, and in every case they
showed every evidence of being producers. The dry two-year-olds were not a strong class, although there were nine on the entry list. Senior yearling heifers were an even dozen in number, and the junior yearling brought out a class of ten which were probably the most uniform of any lot shown. There were also some nice things in both the senior and junior calves.
McGregor, Moose Creek: Chas Colligsburg; D. A. McGregor, Moose Creek; Chas, Collum, Ormstown;
James Winter Ormstown; If Alexander, St. Louis; James Winter, Ormstown; 1. Alexander, St. Louis?
Helm Bros., Huntingdon; loseph Anderson, Anderson Corners; John Hudman, Huntingdon; W. Marshall, Ormstown; Neil Sangster, Ormstown; Jho. McRae Howick; R.S. Dunn, Ormstown: Albert Nussey, Howick; G. H. Goodfellow, Lancaster, Ont.:

Awards.-Aged Bulls: L, Helm Bros, on Peerless Ormsby Count, 2; Collum, on Gano's Paut Posch; 3 Winter, on Prince Artis of Pinedale; ${ }^{1,}$ McGregor:
Harvey, Bull, 2 years: 1 , Sangater, on Nixon of Pleasant


Inschfield Clipper King, Champion Shorthorn Male at Glasgow.


A Winning Shorthorri Heifer at Several 1919 Shows.

Belle. Filly, 2 years: 1, W, J. McGerrigle on Hilda of Rosedale; 2, Turner on Doily Marrethill; 3, Mc-
Dougall. Filly, 1 year: 1, Ness on Woodside Bess: Dougall. Filly, 1 year: 1, Ness on Woodside Bess; 2, D. A. McCormick on Roselyn of the Briars; 3, Cairn-
cross on Cairnbrae Lady; 4, Goodfellow on Elmview cross on Cairnbrae Lady; 4, Goodfellow on Elmview
Aucheloch. Get of -sire: 1, Wm. Nussie; 2, D. A. McCormick; 3, A. A. Nussie. Champion stallion: Woodside Rising Star. Champion mare: Woodside Jeanie. Registered Team and Harness: 1,D. A. McCornick; ; S. S. McGerrigle; 3 , E. C. Budge.
Percherons-As mentioned above, the Percheron classes were not large, but there were among them
several real outstanding specimens of the breed. The several real outstanding specimens of the breed. The
aged-stallion class with six entries was a strong one aged-stallion class with six entries was a strong one
from top to bottom. The 1,2 and 4 winners, were all from top to bottom. The 1,2 and 4 winners, were all
owned by John Innes of St. Anns., while 3rd went to J. A. Hanna of Ormstown. All four horses, although not large, were a real quality lot throughout. Innes E. C. Budge of Beauharnois had a lonie entry in the 2 -year-old class. There were no females shown.

## Datry Cattle,

Ayrshires.-Ormstown or any other live stock exhibition in the Province of Quebec can always be
relied on to bring forward an Ayrshire exhibit equal to any other exhibition in any part of Canada. It is true that for the first time in the show Holsteins outnumbered the Ayrshire enitries, but it is also true that the quality of the Ayrshire exhibits taken as a whole
was far superior to that of any other dairy breed. The was ar syperior to that of any other dairy breed. The aged-bull class brought forward seven entries and while
Holehouse Hopeful, which stood third in the che yoar, went ot the top of stood third in the class last year, went ot the top of this year's showing, he has
improved wonderfully and was a deserving winner. There were, nevertheless, several more sires in the lot which will no doubt be seen at many of these larger
exhibitions throughout Eastern Canada this fall, and
and Florence 2nd; 4 and 5, R. R. Ness, on Burnside (in mive and Fanny of Gladden Hill. Cow, three yearo 2, Elliott, on Edna; 3 , Cavers, on Braeburn Lou: 4 Kerr, on Hillhouse Cherry. 5 . I (in milk): 1, Wilson Esthe on Nellie; 2, D. T. Ness, on Edgewood Lady Mae; 3, Logan; 4, Moe on on Violet 5th and Py. Dry cows: 1 and 4, Cavers, on Ravendale Tinkeribell; 3, R. R. Ness in Chapmantos Topsy. Senior yearling heifer: 1,3 and 5, R. R. Nese on Burnside Henney Chapmanton, Holehouse Sheila and Burnside Rosy Harley; 2, Budge, ofn Palmerston Showdrop; 4, D. T. Neess, on Edgewood Lady May,
Iunior yearling heifer: 1 , Caver; 2 , 3 and 5 , R. R. Ness
4, Budse. Senior heifer calf, $1 ; 3$ and 4, R. R. Ness: 2 , 4, Bude. Senior heifer calf, 1,3 and $4, R, R$, Ness; 2 ,
D. T. Ness. Junior heifer calt: 1, R. R. Ness ; , I. W. bull: Holehoise Hopeful, Champion cover Henny. Four calves bred by exhibitors: $1 \cdot \mathrm{R}$ R.R.Ness 2, D. T. Ness; 3, Cavers. Graded herd: 1, R. R. Ness 2, Cavers; 3, D. T. Ness; 4, Logan. Jurior herds 1 R. R. Ness; 2, Cavers; 3, D. T. Nese. Get of sire: 1 R. R. Ness, on the Get of Materpiecee; 2, Cavers on the
get of Burnside Fanny's Senior; 3, R. R. Ness on the get of Hillhisuse Fopeful; 4, Cavers.

Holsteins.-From a very modest beginning of Ormazen entries in 1910, the Holstein exhibit at Ormstown has grown to outnumber the entries of any other cattle breed. There are many, however, among but which have no right to the title of show cattle probably mprovement siown over that of last year is The small bre marked here than in any other exhibit. after year with several district have come back yeat shown here no doubt is probally responsible for the breed having made such rapid gains, not only at the show, but with the dairymen throughout this district.

Valley; 2, Stewart; on Prince Echo Segis; 3, McRae on Count Echo Alcartra; 4, J. Anderson, on Paul Ormsby;
5, Helm Bros, on Sir Rooker Schuiling o Senior Yearling: 1, Sangeter, on Perfection of Pleasant Valley; 2, Harvey on Dutchland Artis Canary. Senior calves: 1, Harvey; 2, Sangster; 3, Helm; 4, Anderson; 5; A. Nussie. Cow in milk:1 and 2, Harvey onMaple Fril Faith and Gano's Bessie Fatorit; 3. Goodellow, on Inka Sylvia 6th; 4, Queen. Cow three years (in milk):1,2 and 3 . Harvey on Belle Abbekerk 2nd, Lady Roberts Colantha, Fanny B. B. Pietertje; 4, Goodfellow, on Eastview Jean Sylvia; 5, Helm Bros, on Evertje Segii Alcartria. Heifer ${ }^{2}$ yoars (in milk): 1, Harvey; 2, Helm on Rosy De Kol Alcartra; 3, McRae, on Countess Pietje Wade; 4, Stewart, on Johanna Sylvia Segis: 5 , Sangster on Lady Rhoda. Dry cow: 1,2 and 3 , Sangster on
Lena of Pleasant Valley, Helena of Pleasant Valey Lend Edna Duchess of Hengerveld: it Harvay Valley, Mignono Secise 5, Stewart on North Star Cassie De Kol. Heifer, two years (dry): 1 and 2, Harvey, on Artis Segis Korndyke and Princess Sexis Beteman; 3, Sangster, on Hilda of Pleasant Valley:4, McGregor, on Vrouka Ormond; 5, Herdman, on Stella Posch. Heifer senior yearling: 1 , Helm, 2 and 3 , Goodfellow; 4 , Herdman; ; , Harvey. Heifer junior yearling: 1 , Goodfellow: 2 and 3, Herdman; 4 and 5, McGregor. Heifer, senior Heifer junior calf: 1 , Stewalt: 2 , 3 and 4 , Hewart. Alexander. Graded herd: 1 and 2 , Harve\%, Junior herd: 1, Herdman; 2, Stewart; 3, Harvey; 4, Sangster: 5 , Helm. Champion bull: Sangster, on Perfection of Pleasant Valley. Champion female: Harvey, on Belle
Other Breeds.- Contrary to last year, when
Jerseys made a real creditable exhibit, there were this Jerseys made a real crecitable exhibit, there were this year only four of five animals on the ground, althort-
the few that were present were somewhat of an improvement of previous exhibits. Ino. Harvey, of Frelighsburg,
had most of the breeding cattle that were out, and had most of the breeding cattle that were out, and Thos. Stobbart, of Weston, Ontario, had several entries
in the fat classes to compete for the Dominion Governin the fat classes to compete for the Dominion Governhad the only French-Canadian cattle at the show

> Sieke and Swine.

Although the numbers were increased this year considerable, Ormstown has as yet failed to put up a show in either division which would either do justice
to the show or to the district in which the show was held. The sheep exhibitors who carried away most of the prite money came from Ontario, these being Jno,
$R$. Kelsey, of Woodville; G. H. Mark \& Sons, at little Britain; Wm. Clarkson, of Weston, and A. Ayr, of Hampton. Other exhibitors included David Pringle, John Pursell, both of Huntingdon; E. \& S. Sylvester, of St: Hyacinthe, and H . Carpenter, of Clairvaux,
Hogs were shown by Mannagh Bros., of Havelock, Hogs were shown by Mannagh Bros., of Havelock, The sheep entries number 132, and the swine 102 .

## Experiences With Scrub Sires.

The most convincing argument in favor of the purebred sire instead of the grade and scrub are the actua teports which have been obtained from the use of both
types. The following

## their own farms

A farmer in Defferin County, Ontario, had a cal
dropped March 18 th, 1919 , which he sold on December dropped March 18 th, 1919 , which he sold on December
12 th of the same year at $231 / 2$ cents per pound. This 12 th of the same year at $231 / 2$ cents per pound. This
baby beef brought $\$ 169.20$. This calf was out of a good grade cow, which was herself sired by a pure-bred bull. The calf was also sired by an approved type of
pure-bred sire. In the same, stable on similar feeding pure-bred sire. In the same stable on similar feeding
and treatment at the same time was a calf also out of a faitly good grade cow but sired by a grade bull. This cal was dropped November 5 th, 1918 , and was sold 12,1919 ). He brought car aiready referred to (Dec cents less per pound than his stable mate by the pure-
bred bull, and he brought $\$ 174.80$. He was $41 / 2$ months older, had taken more feed and care, but did not have as good quality, and so was not as profitable as his
better bred stable mate. These calves were excentionally well fed, but breeding, counted to the extent of $41 / 2$ cents per pound and enabled the feeder to market his best call at very close to as much money in $41 / 2$ months right - in both cases, and where the pure-bred bull was difectly responsible for the difference.
The experience of a London Township farmer,
Middlesex County, with pure-bred and scrub bulls shows very closely the place of the scrub sire. Six years ago he had in his herd eight very even pure-bred cows that gave him eight bull calves from pure-bred sire. These were made steers and kept until two and one$\$ 140$ each. The next year the farmer was ailing and was unable to take his cows ${ }^{\text {a }}$ distance to a pure-bred sire. A neighbor offered him the use of his scrub sire. were kept, fed and marketed from which five steers ditions, brought $\$ 114$ each, although there had been slight rise in price during the year. This farmer stated
that on the five steers he lost $\$ 130$ in one year, and to that on the five steers he lost $\$ 130$ in one year, and to the average farmer using a scrub sire on 10 females the
loss-would be $\$ 260$ from a beef standpoint alone. If the daughters of the scrub bull were kept in the herd this loss would show in their calves in lesser degree. This profit and loss account the scrub bull will disappear. A Peel County farmer's experience is as follows:--Though we had been using pure-bred bulls for man years previous to a time about nine years ago, we yielde to temptation on a growthy looking, well-built grade (Why should he not produce as good stock as a registered calf costing $\$ 75$, more or less?) When his first calves were about four or five months old they seemed a poo
lot, but the bull was kept for another season in spite o our observations. When the steers were put in to feed
when rising two years, as is our custom, the folly of our selection most glaringly stared us in the face every
time we went to feed them. They wouldn't respond to good feeding and attention. There was little pleasure few exceptions an inferior bunch. We had learned our lesson, and sometimes think it was fortunatê that we
did keep the bull long enough to be really impressed did keep the bull long enough to be really impressed costing $\$ 100$ at six months. Our first crop of calves
healed our wounds. Fine growthy fellows, they ac-
counted for any counted for any feed given, were a source of pleasure market. Counting the difference in weight, adding the consumed, there was a balance of from $\$ 20$ to $\$ 25$ per steer in favor of the good bull. A worse case was that
of the heifers from the scrub bull. They had to be sold
for beef. Instead of being able to select good heifers we had lost two years by using the scrub. Though it in feeding and caring for good animals, is really worth more than all other features combined."
Can you afford to use a grade or scrub bull?

THE FARM.

## Manitoba Rural School

 Consolidation.Editor "The Farmer's Advocats"
In a former article (May 6th) the results were give of actual experience with rural school consolidation at Guelph, Ont., Middleton, Nova Scotia and in Princ Edward-Island. In two of these the original consolida tion was reduced in size through some sections dropping out and the P. E. I. school was discontinued temporarily at least. The latter was sald to have been started on rather too elaborate a scale. The chief obstacle seems to have been the difficulty of transport over bad winter roads, and the cost, though the educational results were conceded to be superior. One plain conclusion was that the area consolidated should not be too great and the school population fairly compact. Other consolidations have been undertaken in Eastern Canada, and because improved rural education, the subject is being widely iiscussed in Ontario. Owing to the distances pupils had to traverse in going to school, coupled with a characteristic spirit of progressiveness in trying out what promised to be better suited to their educational needs, the Western provinces have led off in consolidation. In Manitoba it was instituted at Virden and Holland in 1905, and from the last report (1919) of the Minister of Education, ncreased to over one hundred. There are, howeve still 1,520 one-room schools in that province with definition of "consolidation" is "the joining together of two or more school districts under one board of trustee and providing transportation to school for the children By gathering the pupils in larger groups the object those of the city-graded schools." During the year 1918-19 nine new consolidations were approved yeach covering from two to five districts or sections. A examination of the reports of individual Divisional School Inspectors is instructive. In the main they are avorable to consolidation. No. 3 (Hamiota) reports an increased percentage of children attending such schools from 35 to 55 during eight years and the absorption of 30 one-room schools into larger units. One school. In No 4, (Virden) four out of six plans were approved, ratepayers favoring the smaller district because of shorter van routes. Deloraine commended the idea because it meant a more extended education In Brandon Divisions some of the consolidation have ound it necessary to increase their accommodation In the Portage la Prairie Division where most of the they be discarded and consolid Inspector advises that they be discarded and consolidation, as far as possible,
adopted. In Division No. 16 some small schools adopted. In Division No. 16 some small schools per cent. of enrolment was present at each visit. One new corisolidated school was formed by uniting two
districts. In Division 17 , two consolidated boards districts. In Division 17, two consolidated boards splendid buildings. Greenridge Consolidated District tority apposed the change. In St Boniface (No ma Div.) there is one consolidated district at Sperling operated for several years to the satisfaction of the community. In Division 24 there was talk of con solidation at Eriksdale,
proved the chief obstacle.
A special report on consolidation by the Department
of Education shows that at Dec. 31st, 1917, when 84 of Education shows that at Dec. 31st, 1917, when 84
such schools were in full operation, they averaged in such schools were in full operation, they averaged in
territory $411 / 2$ sections seach. acres. Consolidation is credited with increasing the wood, comprising three districts, had in the last term prior to consolidation an average daily attendance of 55
pupils or 58 per cent., and in the first term under con pupils or 58 per cent., and in the first term under con-
solidation 85.36 or 77.6 per cent. Taking the record of attendance, a provincial table shows that the number of pupils attending more than 100 days in the ordinary the consolidated schools. The average number of days attended by each pupil enrolled in ungraded rural schools in consolidated schools of more than four teachers 149. Rural pupils transported to schools make a better
showing of attendance than those in the village who walk. The report in question puts the average annual cost At that date (1917) the Dept. of Education contributed ceeding $\$ 500$ towards equipment, and an annual grant on a 50 - 50 basis towards transportation. It was cost and the time on the road. In a table of 78 schools the number of van routes was given as 241 , or a fraction
of over 3 to this school, and an average length of 33.22 3,572 , and the total cost ' $\$ 170,967$. Winter vans were
constructed by taking bobsleighs with extra wide
bunks and building upon them a and a canvas top like the old prairie schooner. The official regulations provided that the pupils conveyed
were those residing more than one mile from school and
people. During fifteen years, above one hurdred
consolidations have been effected by natural al grow
ALPRA. Note. -The experience of Atberta and Saskatchewan will be given in a later issue,-Editor.

## Crop Conditions in Middlesex County.

The long drought has been broken by copious showers and at time of writing the crops are showing the benefit of a refreshing drink. There are places, however where there was too much rain. Around Glencoe and Appin, on the 24th of June, considerable water was still lying on the fields from rain which had fallen a couple of days previous. Many corn fields in that vicinity were showing the effects. Early in the week the ditches and awater courses were overflowing their banks, similar to a spring freshet. In the vicinity of London there were iood showers but they fell genty and the water was io start the water running in the ditches. At time of writing the country is looking its best in most localities. -A representative of "The Farmer's Advocate" recently motored through the southwestern part of Middlesex County, which is largely devoted to mixed farming. Hay will not be up to the average this year, although there are some fields which look vety promising. The fall wheat which looked good in the spring has allen a
prey to the Hessian fly in many districts. On examining a field near Glencoe; we found the larvae of the fly in a feld near Glencoe, we found the larvae of the fy in in some there were three or four larvae or "flax seeds" as they are sometimes called. This was causing many of the stalks to break over and others were badly stunted. Several fields will hardly be worth cutting, in fact, one man has turned his herd into the wheat in order to make use of what feed there is there. It is generally attacks of the Hessian fly. One of the worst fields we saw was not sown until the first week in October. The fly seemed to be working in the wheat sown on both summerfallow and sod. The damage done this year will undoubtedly make many farmers in the infested districts dubious about sowing much wheat this fall. The spring crops are looking fine at time of writing.
There is a good stand of oats and they have a healthy

In the district visited a good many farmers are devoting a large acreage to sugar beets this year. In a little ahead of the men with the hoes owing to the work having been delayed by the wet weather. Belgians and Indians are largely engaged to hoe and thin the plants. - The pastures have picked up considerably since the drought was broken and stockmen report the cattle making satisfactory gains. A rew complain about the cattle being worried by the heel-fly, but on the whole fairly optimistic regarding the gains made on the grass

## THE DAIRY.

## Westside Ayrshire Herd Sold by Auction.

 shire herd of david A. Ashworth, Denfield, Ontario,
was disposed of hy auction on Thursday, June 24
In all twenty-ône head were sold for a total of $\$ 3,605$ There were fifteen females, including two calves, on yearling, four two-year-olds, two three-year-olds, and
six mature cows, that averaged $\$ 208$. A yearling and six mature cows, that averaged $\$ 208$. A yearling and
a thiree-year-old bull each sold for $\$ 150$, while a calf, a three-year-old bull each sold for $\$ 150$, while a calt,
out of Lady May 2nd, that sold to T. F. Kingsmill, London, for $\$ 600$, the high price of the sale, went to bought the three high-priced animals in the sale, acquiring in addition to Lady May 2nd the mature cow, two-year-old daughter of Lady May 2nd, for $\$ 300$ Mr . Ashworth's cattle were of good size, splendid quality
and uniform. Below is given a complete list of individual and uniform. Below is given a complete list of individual sales for $\$ 100$ or over. In addition to the cattle, a few
brood sows, some young pigs, as well as the work horses brood sows, some young pigs

Butter Alice, Frank Byrne, Quebec, Que
Lady May 2nd, T. F. Kingsmill, London Marigold, E. B. Stansell, Vienn Marigold, E. B. Stansell, Vienna Bonnie Brae White Rose, A: H. Ashworth, Denfield. May Mitchell of Menie 4th, E, A. McCook Camp Queen's Milkmaid, W. T. Meharg, Tillsonburg .................................... Westside Princess May, T. F. Kingsmill .......................... 130
Went
Westside Lady May, S. Rogers

[^1]FOUNDED 1866

## above one hundired

 natural growth and Saskatchewan
## Middlesex

## showing the benefit

 are places, however, Around Glencoe and iderable water was still had fallen a couple ofsin that vicinity were s in that vicinity were their banks, similar y of London there were
y and the water was was scarcely enough best in most localities. r's Advocate" rebently
ern part of Middlesex to mixed farming. ge this year, although very promising. The ricts. On examining Lutamo er hax sodis mener bally sumed
 there. It is generally
eat will largely avoid of the worst fields we
week in October. The wheat sown on both mex in the infend

0 many temer ire the panat hue eotene and e and thin the plants, considerably since the complain about the fly, but on the' whole ins made on the grass

## IRY

Ierd Sold by

THE FARMER'S ADVOCATE.

## Finding a Market for Our Milk.

 Dairying is one of the oldest of Canadian industries,
ving been established with the earliest settlers as early as 1610 . Our first cows came from Brittany asd Normandy and the Ayrshire is the oldest of the pure-breds as now known in Canada. The first of Goverhor of Nova Scotia, to be followed by further additions from time to time until the first importations
by private breeders in 1845 , 1850 and 1853 Next by private breeders in 1845,1850 and 1853 . Next came the Jerseys in 1868 , the Guernseys, in 1878 , and the first Hostevins were imported into 18 ntario from the by the Dominion Bureau of Statistics that there were were owned in Ontario and $1,056,347$ in Quebec, with something over 938,000 in the prairie provinces
The first cheese factory was built in Ca
The first cheese factory was built in Canada four years before the first Jerseys were introduced into
Canada; the first creamery was built in Ouebec midway Canada; the first creamery was built in Quebec midway between- the coming of the Jersey and the Guernsey,
and the introduction of the condensing industry into and the introduction of the condensing industry into
Canada occurred one vear after the first anpearance of the popular black-and-whites. Truro, Nova Scotia was the home of the first condensed milk factory in Canada, and this one was followed by others, most of them being established in Ontario, At the present
time Canadian condensed milk factories are located at Charlottetown, in Prince Edwart I Itand, Truro, in
Nova Scotia: Huntingdon, in Quebec: Norwich, IngerNova Scotia; Huntingdon, in Quebec; Norwich, Inger-
soll, Tillsonburg, Ay/mer, Springficld, Brockville, St. soll, Tillsonburg, Aylmer, Springficld, Brockville, St,
George, Chestervile, Ottawa, Peterboro, Woodstock and Sydenham, in Ontario; Winnipeg, in Manitoba Commissioner J. A. Ruddick, Dairy and Cold Storage Branch, Ottawa, from whom mimuth of the above historica data has been secured, also informs us that the first
milk powder factory inCanada was established in Oxford mik powder factory in Canada was established in Oxford County, Ontario, in the early nineties, and that plants are now established at Brownsville, Glanworth, Burford,
Hickson, Belmont, Russell, Beachville, Picton and Courtland, with receiving stations at Verschoyle, Corinth, Harrietsville, Nilestow, Westminister, Gladsto
Mapleton, New Durham, Ratho and Brooksdale. Growth of the Condensed Mile Indústry
Growth of the condensing industry in Canada is thus seen to have been quite rapid, but additional
weight to this statement is given by the fact that during weight to this statement is given by the fact that during
the last ten years this industry has increased its proportion of our total annual export of dairy products rom 1.9 per cent. to 15.1 per cent. Add to this the not attempting to develop the export market very strongly but have a greater demand than they can
supply at home and one can appreciate the estimated 11919 production of condensed milk products which is valued at approximately $\$ 13,500,000$ made up as fol$\$ 9,425,776$ ( $O$ ntario $\$ 8,384,780$, Quebec, $\$ 621,559$, and milk valued at $\$ 1,789,089$ (Ontario $\$ 1,279,165$ and British Columbia $\$ 509,224$ ); 494,973 pounds of condensed skim-milk valued at $\$ 32,921$ (Ontario $\$ 44,401$, pounds of milk powder valued at $\$ 1,539,272$ (Ontario only); and probably 1,500,000 pounds of butter worth
about $\$ 750,000$ and manufactured in milk powder about $\$ 750,000$ and manufactured in milk powder
and condensed skim-milk factories. Taking into consideration again the statement already made with
regard to the home market, the following export values of condensed milk products for the period 1914-1920 (year extensive recent development of this branch of the
 $\$ 770,566$ in 1916; $\$ 1,371,610$ in 1917: $\$ 4,955,048$ in 1918 ;
$\$ 7,035,297$ in 1919; and $\$ 8 ; 517,771$ in 1920. It may $\$ 7,035,297$ in 1919; and $\$ 8,517,771$ in 1920 . It may
or may not be significant, however, that the production of condensed and evaporated milk in 1919 showed a former having increased from $40,700,209$ pounds in 1918 from $38,612,367$ pounds in 1918 to $16,107,334$ pounds in
1919. Milk powder increased from $5,530,915$ pounds in
1918 to $6,591,099$ of pounds of milk required from the producer the increase curing 1918-19 was appreciable, for the reason that whereas the decrease of $1,306,339$ pounds of condensed and evaporated milk meant a decrease of probably
$3,500,000$ pounds of raw milk, the increase of $1,060,184$ pounds of muk powder meant an increase in raw mill of about $11,000,000$ pounds. These figures, we should
point out, are estimated, but it is known that the increase point out, are estimated, but it is known that the increase to 1918 was from $195,671,689$ pounds to $260,778,432$ pounds ( $157,805,002$ pounds in 1917 and $216,237,844$ pounds in 1918 for Ontario alone)

A Comparison With Cherse.
The condensed milk industry is similar to the city milk market and different from the butter or cheose markets in that it utilizes all of the milk solids, with the Here also, however the remaining for of the milk is used in the manufacture of butter or cream powder. This advantage is magnified by the fact that the various products can be temptingly preserved for the consumer and that their bulk is small. A fact to be considered very seriously also is the control of this industry by a comparatively few corporations. The eight milkpowder plants in Ontario are owned by three firms, one receiving stations already facties and operates all of the condensed and evaporated milk plants in Canada one firm owns six and two others two each, while a few of the remainder are operated by city dairy or creamery companies. This fact need not necessarily be alarming to the producer, but it is perfectly true that in dealing with a large corporation the individual producer is reatively exert less infuence as regards, say, the matter of milk exert less influence as regards, say, the matter of milk
prices. There were in $1918,1,885$ cheese factories, 990 creameries and 22 condensed, evaporated and milk powder factories in Canada. There was $\$ 10,674,866$ capital invested in creameries, $\$ 4,516,464$ invested in cheese factories and $\$ 4,051,708$ investe. in the 22 condensed milk factories. In other words the capital
invested in the average condensed milk factory was invested in the average condensed milk factory was
seventy-eight times that of the average cheese factory and eighteen times as much as the average creamery. producer received 87 proce of the cheese and the creamery-milk producer 80 per cent. of the factory selling price of the butter, the condensed milk producer (including evaporated milk and milk powder) received only 47 per cent. of the factory selling price of its products. Further, dairy factory statistics also show that whereas total expenses in the manulacture of cheese amounted to 97 per cent. of the selling price of the cheese, leaving a margin of 3 factories for other possible charges and profit, there was a margin of 7 per cent, or $\$ 3,000,000$ to be divided amone 990 creameries and 8 per cent. or $\$ 900,000$ to be dividen among 22 condensed milk factories. A still further analysis, of available dairy factory figures compiled by ne Dominion Bureau of Statistict: show that cheesemilk manufactured into cheese sold at the factory for approximately 2.1 cents per pound, while condensery The when manulactured sold for 4.7 cents per pound The margin to the cheese factory over total expenses was less than . 1 cent per pound, and the margin to
the condensery over total expenses was about .3 cents per pound.

## What the Figures Mean

These figures do not necessarily mean that the condensery natron was not getting a correspondingly good price for his milk, because approximate figures 1.8 that he got 2.2 cents per pound as compared Wh are convinced, however, that if they mean nothing elso they mean that the individual producer, when dealing mith large cormpanies whiose methods and expenges manufacture are so different from those pertaining to different methods of bargaining if he is to get the full
market price for his product. It was found necessary for the grain growers of the West to unite in marketing over the gat chrough the large milling companies and farmers ahd more lately the Ontario farmers to unite in the marketing of live stock through the large packing houses; it has been found necessary for farmers to unite in the marketing of egres and poultry through the large cold storage and produce dealers; and it is even more necessary for milk producers to unite in the marketing of milk which is now the basis of an annual quarter-billiondollar industry in this country. Not long ago a repre sentative of "The Farmer's Advocate", was present associations all of thich were primarity fintery tect 36 marketing their milk through one company in the condensing industry. These men wanted an increase in the price of milk for the succeeding month because they felt that they had not been getting prices that compared with chense-milk prices. After three hours a resolution was framed up delegating to the provincial association the right to negotiate for an increase of 10
cents per 100 pounds. Not without some difficulty the increase was secured, in spite of what would other. wise have proven a substantial reduction in price the following month. Diplomacy won for the provincial executive, combined with the business intelligence of the company. It is doubtful if the local associations could have secured the increase, because it meant that other companies must meet any increase in price made by this one. But it is more certain that had the com. pany been very stubborn they could have won at least forced to report failure. If such a failure had occurred it would notreng rindicated their inefficiency but it would have emphasized the inefficiency of the local organizations as they exist at present. Fortunately the increase wassecured and several thousand producers benefitted to the extent of probably 25 to 35 cents per 100 pounds or the heaviest month of the year. Fron satisfactory bit if the incident proved anything it prowed the value of pood markoting erganization rather proved the value of good marketing organization rats

Necessity for Alternative Mhik Markets.
It has frequently been said and in fact, figures which fact, that the cheese indystry has been affected by the rapid growth of the condensing industry. Cheese nading, however is only one way of marketing milk nd if the cheese industry cannot stand up it must fall industry has been affected. At one time he was one of a comparatively few patrons of the local cheese factory. Now he is a patron of a large company and in some cases does not even deliver it to the company's manufacturing plant, but takes it to a receiving station from which it is hatided in ways which do not concern him. In many old place, now no longer a a cheese factory but a transformed factor in the dairy bisiness, submerged, as he himself has been, in the operations of a firm, one of whose manufacturing plants alone is seventy-cight times as large in point of capital as his time-worn friend the cheese factory. Instead of having his say in the appointment of the cheese factory salesman, he has already found it necessary to organize a local milk producers association so that the big com He has not yet got beyond the point of realizing that he He has not yet got beyond the point of realizing that he made a mistake when he tet the old cheese lactory slip affected in Ontario up to the begianing of 1920 . Some were closed down for a season, some were put out of business, and some were bought ot rented by the condensing companies. Some still function as receiving stations, but for the producer they are no longer evidences of the cheese industry. We are not blaming the money. They want raw material as cheaply as it can be obtained and in quantity; the farmer wants the best be obtained and in quantity; the farmer wants the best
possible market for his milk and wants it steadily. He


A Large Condenser in Eastern Ontario that Utilizes as Much as 200,000 Pounds of Milk per Day


Formerly a 200-ton Cheese Factory in Western Ontario: now Merely

If it steady market, but not necessarily the best one hogs and a separator and ship cream, or continue to hogs and a separator and ship cream, or continue to
reflect that his one available market is not the best and that the cheese factory is no mark

## Co-operative Milk Distributing Plants A Remedy

 The incident related above with respect to a ten success. Had it proven unsuccessful it is almost certai that the majority of the patrons would have continued osupply the company. They would of course , have been dissatishied and the company was wise enough to recog. nize this fact. They made a concession to their patron and not a business deal in the real sense of the word situation have come together in much the same way many times during the lost few years with other companies as well as this particular one. We submit that an entirely different complexion would have been put upon the matter if, instead of a number of local associa ons depending upon the good luck and prestige of provincial executive, there had been the same number receiving and distributing plants, with an experienced futter and cheese-maker in charge and experienced installed for the testing and separation of milk and the manufacture of cheese or butter. Had this been th case the company would have dealt with a provincia xecutive representing say a dozen local companies each of which was in a position to supply 25,000 or 50,000 pounds of milk daily during the month under dispute dozen boards of directors would have met and possibly told the cheese-maker in charge to mate cheese afte the first of the month. A few might have made butter shipped some cream, or decided to continue at the low price. Suppose it had required a $\$ 150$ investment from each patron to establish these co-operative milk distributing plants? What would that amountto with an output ofrom 25,000 to 50,000 pounds o

Second National Ayrshire Sale.
Reference was made last week to the Second National Ayrshire sale, held at Springfield, Mass., on June 10. There were 44 animals sold for an average of $\$ 965$ which compares with an ayerage last year of $\$ 1,625$ Eight Canadian animals averaged $\$ 707,3$ from the herd of R. R. Ness, Howick, Quebec, averaging $\$ 966$, consigned by Gilbert McMillan, Huntingdon, Quebec averaging $\$ 666$ and 2 from D. T Ness Howick Quebec averaging $\$ 380$. The following is a list of sales for $\$ 1,000$ and over
Addington Princess, Weymouth Farms, Weymouth Marclay's General Haig, J. E. Whiting, Uxbridge
 Chay's white tily, Hugh - Cnishom, Port Barclay's Nightingale, Adam Seitz, Waukesha, Jean Armour's Big Kate, P. O. Reyman, Wheeling, Lessnessock Violet 7th, Barclay Farms, Rosa Lessnessock Violet 7th, Barclay Farms, Rosa Craigley Ada, Stephen Bull, Racine, Wis
Auchenbrain Hannah 3rd, H. A Tuttle, Upton, Mass.
Willowmoor Cristina, W. P. Towner, Townersville
Castlemains Kate, Wendover Farm, Bernardsville
Ridgewood's Milkmaid, C̣apt. A. H. Higginson,
Ridgewood's Milkmaid, Capt. A. H. Higginson, Otterkill Roseleaf, J. E. Whiting, Uxbridge, Henderson's Betty, Peter Bradley, North Wey mouth, Mas
Otterkill Katherine, J. E. Whiting, Uxbridge
\$1,400
1,100

Trixy G., W. W. Ballantyne, Stratford
Trixy G. 2nd, Geo. Pearson \& Son, Waterdown, 145 Mollie 3rd, S. Rogers.
Miss Bartley 2nd, S. Rogers...
Adalia 5th S. Rogers
Adalia 6th, H. A. Swart
Arvilia 2nd, S. Rogers
White Arvilia, Wm. Thorne, Lyndoch
Garclaugh Alpha, Peter Cairns.
Alpha 2nd, H. A. Swart
Alpha 3rd, C. D. Woolley, Simcoe
Annie Laurie 3rd, W. W. Ballantyn
Annie Laurie 4th, C. D. Woolley
Ishbel, H. L. Roberts, Simcoe
Garclaugh Star, T. F. Kingsmill.
Star 4th, H. A. Swart.
Star 5th, Peter Cairns
Star 6th, Geo. Apel, Mitchell.
Star A. 2nd, Jno. Morrison, Mount Elgi
Daisy Queen 5th, C. D. Woolley.
Daisy Queen 6th, Cueen 6th, H. A. Swart.
Daisy Queen 7th, H. A. Swart.
Daisy Queen 8th, H. L. Roberts.
Edna, H. A. Swart.
Edna 2nd, S. Rogers.
Christmas Belle 4th, Peter Cairns
Christmas Belle 8th, Geo. Apel.
Belmont. Wainut Lodge, Sol. MacCallum,

## Hood Farm Jersey Sale.

At the recent Hood Farm sale of Jerseys at Lowell Mass, 71 heat were sold for an average of $\$ 256$. All but 40 animals less than two years old and about 20 less


A Few of the Trucks Waiting to Unload at an Eastern Ontario Condensery

## A Sample Truck and Trailers for Hauling Milk to a Milk Powder Factory

milk daily from a single community to protect? What
would be the value to the milk producer of three or four alternative markets for his milk? The community has we will say, $\$ 100,000$ worth of milk to sell every year If the plants costs $\$ 15,000$, interest at 7 per cent. a mounts to $\$ 1,050$. Is it worth this much to make sure of three or four markets instead of one and very probably sell the milk for more than would otherwise be secured? One hundred producers averaging ten 5,000 -pound cows increase of 5 cents per 100 pounds due to co-operative marketing the increase would be $\$ 2,500$, or enough to pay the interest on $\$ 15,000$ at 7 per cent., and depreciation at more than 9 per cent. An investment as heavy as this would rarely be made. The average creamery represented an investment of only $\$ 10,674$ in 1918.
Moreover, the incident already referred to the benefits from co-operation amount to far more that 5 cents per 100 pounds. What are producers going to do about it? We believe that such a system of marketing milk would be infinitely better for the producer, and not a bit less satisfactory for the companies concerned. They would have the satisfaction of dealing with five men instead of fifty or one hundred. They would be assured of a steady volume of milk and would conditions much more fully than is now possible for each individual patron. Anxiety would give way to confidence on the part of all concerned, and co-operative marketing would do much to put the condensing dustry on a fairly competitive basis with other branches of dairying. We hope to see some development in this direction, and believe that it must come if milk producers
are to get the most out of the condensed milk market.

Live stock is at the foundation of soil fertility round, the larger the crops it will produce in the future, provided, of course, it is drained and properly
cultivated.

Auchinbay Ella, W. P. Towner, Townersville,
Duchrae Jenny 2nd, Hugh J. Chisholm, Port
2,000
Homestead Ayrshire Dispersal.
A sale of forty-eight pure-bred Ayrshire cattle from Belmont, Ontario, was held at the farm on Wednesday June 23. On the whole it was fairly successful, the forty-eight head selling for a total of $\$ 7,810$. Forty
four females sold for $\$ 7,580$ or an average of $\$ 172$ our remales sold for $\$ 7,580$ or an average of $\$ 172$ two-year-olds, ten three-year-olds and thengs, olds. Considering the numbers of young her-year the fact that a number of them were rather small and account of the fact that they had been bred early 0 average may be said to have been satisfactory. The breeding of the herd was undoubtedly good, and all
were brought into the ring in good salable condition. Were brought into the ring in good salable condition for $\$ 120$, a two-year-old which was not sold, and two s, ring calves. The crowd was very good considering About the middle of the sale it rained quite sharply for some time, during which a few animals went at easy
prices. The high price of the sale was $\$ 405$, paid by S. Rogers, Lashburn, Sask., for Arvilia 2nd, a two Lear-old heifer got by the herd sire Advance of Walnut record of $12,819 \mathrm{lbs}$. of milk and 508 lbs. of tat. A list
of individual sales for $\$ 100$ or over follow. Robins Queen, John Hunter, Grimbsy
Carclaugh I) elphine, Peter Caire, Brantord Robins Queen 2nd, S. Rugers, L.ashburn, Sask Delphite, 1I. A. Swart, Simcoc
than one year old. Ten animals sold for $\$ 1,000$ or over and the top price of the sate was $\$ 6,300$ secured for
Sophie's Elbert purchased by W. . Glatfelter, Spring Grove, Pa. Fd $\quad$ C. Lasater, Falfurrias, Texas, was the largest purchaser, paying $\$ 13,170$ for 19 head at an average purchaser, paying of $\$ 693$. Sophie's Gentle Lady was the only animal sold to a Canadian. She was purchased by R. J. Fleming, Toronto, for $\$ 675$.

## Holstein Records for May,

During the month of May official records of 33
mature Holstein cows, 7 senior four-year-olds, 5 junior four-year-olds, 6 senior three-year-olds, 10 junior three-year-olds, 8 senior two-year-olds and 23 junior two-year-olds were received and accepted for entry in the $30-\mathrm{lb}$. mark and less than eight records are above the Five mature cows made $30-\mathrm{lb}$. records as follows: Simcoe Mercedes Queen with 32.46 lbs. butter from 499.3 1bs mik at 9 years; her stable mate Shamrock 3rd with 32.38 Colanth Posh 505.6 ibs. mik at 6 years; Pauline milk at 12 years. K 32.24 lbs. butter from 614.6 lbs. lbs. butter from 577.5 lbs milk at Hartog with 31.92 dale May Echo Lyons with 31.13 lbs, butter from 665.1 lbs. milk at 7 years. Colony Sadie Canary leads the senior four-year-olds with 31.75 tbs. butter from 587.9 lbs, milk and Colony Korndyke Belle leads the junior milk Sear-olds with 24.27 lbs. butter from 484.9 lbs. Sylvia with 25 three-year-olds are led by Rosa Lee among junior Walker has 31.58 lbs , butter from 5784 lb . her stablemate Mechthilde Korndyke Walker has 30 Ind ibs. butter from 721.4 lbs. milk Lady Waldorf Sylvia leads the senior two-year-olds with 22.94 lbs. butter from 556.2 lbs . milk while the 23 juniors are headed by lbs. milk. Both are from the same lbs. butter from 417.8 lbs. milk. Both are from the same stable as the two 30 -
fficial R. O. P. tests. Johanna Jemina Posch as from 26,415 lbs. milk. Vale Lyons is the first of two milk, and Home Farm May Lyons leads 4 two-year-old with 511.25 lbs. butter from 13,180 lbs. milk.

## Roycroft Holsteins Average $\$ 757$

The sale of fifty-head of Roycroft Holsteins, held on Friday, June 25, included forty-six head which sold or $\$ 35,320$, or an average of $\$ 757$ per head. Ther were forty-four lemales ranging from $\$ 1000$, and six emales sold at prices ranging from $\$ 1,000$ to $\$ 4,500$ seven yearling's, averaging \$294; eleven two-year-old averaging $\$ 1,035$; eight three-year-olds averaging $\$ 429$, and five four-year-olds averaging $\$ 1,258$. There were only eight mature cows, and these averaged $\$ 736$. The high price of the sale was $\$ 4,500$, paid for Countess
Alcartra Segis, by Gordon S. Gooderham, Clarkson Alcartra Segis, by Gordon S. Gooderham, Clarkson,
Ontario. This two-year-old heifer was consigned by E. B. Purtelle, Bloomfield, Ont., and she has a 30-day bs. of milk made the one year, eleven month and nine days. Mr. Purtelle also consigned Keyes Segis Alcartra that sold for $\$ 2,000$, and May Sylvia Alcartra, an April calf, that sold for $\$ 3,900$. Helena
Burk Keyes; an eight-year-old cow that sold to Gordon Burke Keyes, an eight-year-old cow that sold to Gordon
S. Gooderham for $\$ 1,750$, was consigned by A. B. Foster . Gooderham for $\$ 1,750$, was consigned by A. B. Fost \& Sons, Bloomfield, Ont, She has a seven-day record at seven years of 33.28 lbs . butter from 13 lbs . of mim. at six years. The attendance at the sale was nere only a few Ontario farmers present, probably because of the fine weather which kept them on the farms. Nevertheless, the high-priced stuff all stayed in Canađ̃a. Quite a number of the offerings went to the States of Mischigan, New Yo dollowing is detailed lales for $\$ 100$ and over: females
Roycroft Belle Echo, Banwood Farms, Romeo, Michigan................................................ N. Y............................................... Rancocas Stock Jobston, N. Y................................. Brampton. Roycroft Echo Gerben, Banwood Farms Roycroft Pontiac Tidy, J. N. Cameron, Norval... burg, Pa Abbekerk Beets, A. W. W. Copeland, Roycroft Abbekerk Beets, A. W. Copeland Roycroft Abbekerk, Rancocas Stock Farms....................... Roycroft Abbekerk Pontiac, D. Raymond, Vaud
reuil, Oue. reul, Que
Roycroft Netherland, Harry Smith, Port Perry... Roycroft Devires, Rancocas Stock Salley, Lachine Rapids, Que.............................................
Countess Alcartra Segis, Gordon S. Gooderham, Roycroft Keyes Segis, D. Raymond
Oakville Inka Johanna, G. A. Abbott.....
Het Loo Inka, E. E. Muirhead, Clarkson....
Roycroft Inka Echo, A. C. Hardy, Brock Roycroft Inka Pontiac, A. W. Copeland.... Roycroft Inka Pontiac, A. So
Helena Burke Keyes, Gordon S. Gooderham
Princess Posch Albino, W. H. Miner, Granby, Que.
 Roycroft Keyes, E. E. Muirhead........... Gooder-
Het Loo Clothilde Korndyke, Gordon S. Countess Walker Segis, E. A. Hardy, Rochester, Countess
Mich.
Roycroft Princess, E. A. Hardy....... Roycroft Segis Walker, D. Raymond. ... Elliott Pietje Inka Pontiac, G. A. Burdick, Pittsburg. Roycroft Hengerveld, H. M. Vanderlip, Brant Francy Dutchland Hengerveld, N. I. M.................................. Bowmanville
nka Sylvia Echo, D. Raymond
Roycroft Francy Echo, Harvey Smith
Het Loo Wayne, Walter Bathford, Amherstburg Roycroft Bessie, Brentwood Farm..
Het Loo Rag Apple, Banwood Farms.
Roycroft Zella, Wm. Fendley, Norval.
Roycroft Mary Echo, G. A. Burdick ...
Roycroft Colantha Echo, G. A. Burdick
Roycroft Artis Echo, Harvey
Het Loo Boon, W. R. Cummings, Cumming' Bridge.

Males.

## Male calf, W. F. Elliott........................... Baker Brighton..

There is now and likely will be for some time a good demand for the right kind of breeding stock. It is never too late to commence improving the herd. are many good animals changing hands at private and are many good animals changing handig palies. The price of breedy, high-quality stuff appears high compared with pre-war prices. But think
in the terms of oats or wheat, and the rise in price of in the terms of oats or whe
stock has not been so-great.

## THE APIARY.

## Swarming Devices

Editor "The Farmer's Advocate"
Every apiarist engaged in the production of honey He cannot afford not to unless he uses perforated zinc. It is much more difficult to take care of swarms when queens are allowed to go with the swarm. But as there are some who dislike to "disfigure" or "mutilate" their queens, and as some swarms in any case will get various devices for capturing swarms with unclipped queens.
Almost every apiarist has his own peculiar notion as to how a swarming device should be constructed Some of these implements are very ingenious and of valuable assistance during the swarming season. Their particular use is to remove a swarm after it has ciustered and place it in the
up a new abode.

The first one to which attention is called, not because it is the best but because it is the simplest, is a sort of butterfly-catch. The hoop is made of band iron and
is about 20 inches in diameter. The ends are secured to a suitable pole. The bag is to be put under the swarm, and the hoop is then made to cut off the cluster so that the bees will fall into the bag. It is then turned edgewise, so as to confine them while being taken down and
carried to the hive. It may be necessary to hold the bag in the air to catch the flying bees. These will shortly cluster on the outside. As the bag is made of cheesecloth the bees inside have plenty of air. To empty the bees, turn it inside out.

Another swarming device consists of a wire-cloth basket made in the shape of an inverted pyramid, and pivoted at the opposite corners so as to hang always in an upright position. When a swarm is captured the and inverted, dumping the bees into the hive prepared for them.
As soon as the cluster beginning to form on a tree
or bush is half or nearly completed, the basket is shoved up to and around the cone of bees. An assistant if present, gives the limb a jar, so as to disengage the selecting a slim sapling about fifteen to twenty feet long,
and after cutting off all the branches and leaving a rotch at the end a common bushel basket may be attached. As soon as the swarm is captured the basket may be taken off the pole and carried to the new hive After the basket is hooked on to the end of the pole, hanging on the tree, and is gradually pushed up unti the swarm is nicely placed therein. The pole is given sharp push upwards, care being taken not to unhook
the basket. This sudden jar will dislodge the swarm,
a sliding movement will precipitate the cluster into the wire-cloth cage, when it is quickly lowered. This operation, in passing down through the limbs, will
usually catch the wire-cloth lid and close it with a slam. In case it is not closed, the apiarist steps forward and does, it himself. Half or two-thirds of the bees are generally confined. In all probabiity the queen is in the air will usually cluster on the outside of the cage. To make/this more expeditious the tripod is adjusted and the cage suspended in the air right where the bees are flying the thickest. In five or ten minutes the remainder of the bees will be clustered on the outside. At this stage of proceeding the apiarist comes forward folds the two short legs against the pole, grasps it at its One of the special features of the arrangement is that the basket can be put to almost any position from two to ten feet off the ground. All that is necessary is to adjust the tripod so that the basket' will be held where the bees are flying. In the meantime, unless the hive is already prepared, the apiarist has ample time to ge lustered. Most devices require to be held until the bees have settled. It is a tedious job to hold a pole at bees have settled. It is a tedious job the swarm clusters yery high, some other arrangement would be better but for the modern height it is just the thing,
In case of an absence of any special tools to make varming device, a simple one may be quickly made

and before the bees have an opportunity to take wing the basket is lowered and unhooked from the end of the pole. It may now be dumped in front of the hive
where it is to be placed. If some bees get out and cluster on the old spot, they may be secured after a second
Hiving the New Swarm.

With most of the hiving devices a hiving-hook can be used to good advantage. It is simply an iron hook on a long pole, resembling somewhat a shepherd's crook. One of the hiving devices is passed beneath the
swarm, while the hook on the pole is hooked over the limb. By one or two sharp jerks the bees are jarred into the basket, bag or box. Sometimes a swarm will alight upon a limb beyond the reach of any ladder Possibly, also, the limb upon which the bees are clustered isso far out from the body of the tree chat it would not sustain the weight of anyone climbing after them. Such a swarm can usually be reached in the following manner. A stone about as large as one's hist thed at himself, he can get some boy who is a good ball player to perform the throwing act. He should uncoil a considerable quantity of the line, then throw the stone into a crotch, if one is near the swarm. If he is lucky enough to land the stone in the crotch, he should draw gently on the line until the stone catches in the fork: One quick jerk wild be kept in a tremble until the bees cluster on some other spot, which they will do presently fluster limb is kept agitated for five or ton minuted They may cluster higher up, but the probabilities are they will seek some other spot more accessible. If there is no convenient crotch at the right point, the stone should be thrown so it will pass, taking about one foot of line. The string should be given a good jerk, causing the stone with the line to whir around the lmb a coupro, a third or fourth attempt may be successful. It is not a very difficult trick; but the main thing is to get the line attached to the limb at some point near the swarm. Then the rest is easy,
One of the most useful implements in the apiary when queens are not clipped is a good hand force-pump. A swarm of bees in the air with a queen that might otherwise circle about for fifteen or twenty minutes can usually be made to cluster in fromicles of water dampen


A Fine Sheltered Apiary that Should Make Money for the Owner.
the wings and so impede their flight, or cause the bees to think it is raining, or both, and that, therefore, they had better cluster at once, cannot be proven; but certainly the spray has a very decided oble. One who make the bees settle but to compel them to cluster on some point easily accessible to any of the ordinary hiving devices. Occasionally a swarm will make for the top of a tall tree. With a pump they can be headed off, causing them to settle on a lower branch. Even when a swarm is clustered twenty or thirty feet from the ground, by adjusting the stream, nozze and letting. dislodged, thus causing them to take wing and finally settle arain upon a lower point of attachment. Again, several swarms will come ouf simultanedusly, and two or more attempt to eluster together. By the timely use of the spray, each swarm can be kept separate by dampening the wings of the stragglers of the two swarms, about to come together. A good many times a swarm that is about to abscond can be headed of and made to Yluster. Ont
M. A. Boag.

## POULTRY.

## First Nova Scotia Egg Laying Contest

Reports of the first Nova Scotia Egg-Laying Contest conducted by the Nova. Scotia Department of Agriculture under the supervision of J. P. Landry show that up to June 18, a total of 14,825 eggs have been laid by 30 pens of 5 birds each. Twelve varieties of birds Leghorns, Barred Plymouth Rocks, R. C. Rhode Island Leghorns, Barred Phymouth Reds in greatest Reds and S. C. Rhode Island Reds in greatest numbers. June 18, that weighed $1,5741 / 3$ ounces: The next
nearest was a pen of Barred Plymouth Rocks with
629 egss weighing 1,275 ounces. Of the 14 pens that had 629 eggs weighing 1,225 ounces. Of the 14 pens that had
taid 1,700 ounces of eggs or over there were three out of three pens of S, C. Riode Island Reds, one out of three pryarred Plymouth Rocks, one out of two pens of S. C. Anconas, the only pen of S. C. Brown Leghorns, two
out of five pens of $S$. C . white Leghorns and two out of R. Dens of white Wyandottes. The best hen was a white thie poorest hen was also a R. C. Rhode Island Red and laid 4 eggs. The second best hen was a
The contest hegan November 1 , 1919 , and since that time 58 birds

Market Good Eggs Frequently. A review of the poultry and egg-market situation
iblished under date of lune 22, by the Poultry Division five Stock Branch, Department of Agriculture, Ottawa, has this to say about marketing egss in hot weather:
With the market at its present level producers have every incentive to gather and market their eggs frequently and regularly. Many shipments are
now showing signs of Incubation and of having been hem under unfavorable conditions, and the loss to the individual producer and to the country is rapidly as-
suming tremendous proportions. 'Remove male birds', suming tremendous, proportions. 'Remove male birds',
gather frequently' taminating influences,' 'market frequently,' are points worth remembering and acting upon at this season.
Discussing the yarious methods of selling eggs an earlier report described them as follows 'Loss-Off', and 'Quality-Payment'. In the 'Case are Count'system the eggs are bought at a flat rate-rotten eggs bring as much as those of the highest quality. The
dealer guesses at the percentage of bad eggs he will have to discard, and fixes his price accordingly. This system offers no inducement for the production of high-
'The 'Loss-Off' system provides for the payment' of atf eggs, except those not fit for food, at a flat rate. ment is offered to produce high-grade eggs. The small, dirty or held eggs bring as much as the best
"Quality-Payment' provides for the purchase of that pays a premium to the careful producer who takes pride in marketing a first-class article.
Payment' plan. As the 'Loss-Off' was a step 'Qualityof the 'Case-Count' method, so 'Quality-Payment' is another step, and points toward a better product, a higher price to the producer, "
HORTICULTURE.
Fruit Conditions in B. C.
Editor "The Farmer's Advocate":
Crop returns are generally of interest to growers, especialy those in fruit and vegetable farming because
of the light it will throw on the prices that are likely to prevail.
The soft fruit this year in, the Okanagan Valley is somewhat the same as the apple crop-best described as from the valley and soon all the peaches practically
will have been pulled out, for most of them were planted only as fillers, (a very poor policy) in the orchards. last year.

Apricots are still on the increase, and eventually this apple crop. This year will see a big increase in the good; possibly about a third more than last year. With will largely influence the results to the growers. Last fruit, and the people had not become acquainted with the fact that soft fruits can be preserved as well without
sugar as with it. Sugar is not a preservative, and farmers who grow fruit should help advertise this fact
$\qquad$ very good crop-equal to last season. The increase that
$\qquad$
$\qquad$ late spring frost made itself felt in other parts of th
$\qquad$ howsomer, is rather erratic. Last season was the dries
$\qquad$
$\qquad$
$\qquad$ notice the same with apples as with pears, and from
the same condition. Last fall a rather early and severe
frost no doubt had its effect registered in the setting of the crop this spring. Many tons of apples were never picked and many trees were hardly ripe enough. Pears
are on the increase in the plantings and have been for the past four years, being nearly as popular as apricots. The result is that the increase in this crop is greater this year than last.

Apples, although severely injured in spots in almost every orchard by the conditions mentioned above, ar considerably greater in promise this year. Less thinning result from the younger orchards and their yield will be of the more valuable desert varieties such as New-
town, Jonathan, Grimes Golden, etc., apples that are the very best quality for box packing and in demand The quality will be good. This season one fruit ompany alone distributed over five car loads of lime sulphur to be used in Summerland, alone, a district
of some 20 square miles. A very great number of power sprayers were sold here this season as well as a number
of extra fine nozzles which insure better work on the older trees. From these indications we can hope for a good quality crop; for what is true of Summerland is also Storage is still quite a problem and every place is trying to work out its own situation to be ready for the
fall. A large storage plant is to be erected here and rot a few of the growers are putting up small bank storages, One man put up a storage last year and his spring sold
three carloads on a high market, getting his fruit off in good shape.
and better cold quite a problem and now a bigger staff season. We anticipate a bicger demand this season than last year for cars, and whether, with the shortage conjecture so far. right into the markets which eastern Canada should be holding and we are making headway practically because we are using the box pack and putting up apples of a big hit with a few car loads of Winter Banana apples and Toronto with quite a few extra carloads. for the Okanagan and will be better if sugar is at all plentiful.

FARM BULLETIN.
Commissioner Murdock Resigns From Board of Commerce.
Commissioner James Murdock, the representative
Labor on the Board of Commerce and formerly of Labor on the Board of Commerce and formerly of America, resigned from the Board of Commerce on
Wednesday, June 23. He accused the Government of trying to make "a joke of the law" and objected to accused the majority of Cabinet Members of not being in sympathy with the interest of the Board of Commerce Act and charged Judge Robson, former Chair-
man of the Board with working in the interests man of the Board with working in the interests of of the Board of Commerce, which was appointed in 1919.

W. E. Ashton.

Jersey Breeders Appoint a Field Man.
cattle in Ontario
year of Materonald
Ontario, and that he will be glad to be of service to any
of the Jersey breed. He is a grandson of W. H. Martin Warden, Quebec, who is a veteran ersey breeder, and several years. He was a member of the Macdonald College judging team at Chicago last year, and joined
the Canadian air force during the late war. the Canadian air force during the late war

Message to Ontario Farmers.
The following parabraphs contain a message from
Dr. G. C. Creelman, for many years the genial and well-known president of the Ontario Agricultural College, Guelph, who sailed last week for England to Ontario. Dr. Creelman asks us to transmit a message from him to the farmers of Ontario, with whom he has been for so long acquainted, and this we gladly do,
knowing that thousands of our readers have, at one time or another during the last twenty-five years, known him or heard him speak at farmers' gatherings,
and have gone away impressed with his outstanding ability as a speaker.
For the past twenty years I have been intimately Province. Aside from administrative responsibilities it has been my duty and privilege to address and meet
personally thousands of farmers in all parts of the Province. In breaking this association, which I do at the end of June, to accept the position of Agent-General your columns my keen appreciation of the kindness and of Ontario. .
confidence and wish to gratefully acknowledge the distinct progress for better agriculture. resulted in such briefly a few of the outstanding facts. In 1903, the in all courses and classes was 728, with 299 boys in the general two and four-year agricultural courses. In $1919^{\circ}$
the total in all courses and classes was 2.115 , with 615 boys in the general two and four-year agricultural equalled the total in all classes in 1903. During this period Macdonald Institute has been established, and ened sortments of the College extended and strength ened so as to bring the largest possible number within
the influence of the institution. During that time thousands of young men have returned to their farms to the same time the B.S. $\Lambda$. men have been in everincreasing demand for positions of ever-increasing ing from the requests which come to me for trained in saying all over the Dominion, I have no hesitation any time in the history of the College. and equipment have increased in remark, the buildings point which surpasses the entire extent and value of the "Let us never forget also that nearly five years of peaceful development, but writing the most illustrious chapter in the history of the institution. In its leaderwhich it was represented by 750 graduates and undergraduates overseas, in the constant flow of comforts
sent forward by the women of the college, this institu tion has made a record which deserves to live. acts represent, but at the basis of it all has been the confidence and co-operation of the farmers of the
Province. There is still room for further progress The field is large and the needs are great. I bespeak
or my successor, Mr. J. B. Reynolds, a gentleman of fine ability and high character, the same co-operation institution may make big advances in the years that
are to come.

Sessional Indemnity Increased at Ottawa.
Announcement was made by Premier Borden in
the House of Commons on Friday, June 25 , that the Government has decided to increase the sessional in-
demnity of members from $\$ 2,500$ to $\$ 4,000$, provided the sessions are of substantial length and members are
regular in their attendance. The Premier's salary will be increased from $\$ 12,000$ to $\$ 15,000$, Cabinet
Ministers from $\$ 7,000$ to $\$ 10,000$, Solicitor-General
from $\$ 5,000$ to $\$ 7,000$, Leader of the Opposition from $\$ 7,000$ to $\$ 10,000$, Speakers of the Senate and House of the House of Commons from $\$ 2,000$ to $\$ 4,000$. was pointed out that in several provinces the sessional
indemnity has been increased, namely; Alberta from
$\$ 1,500$ to 2,000 in 1919; Saskatchewan from $\$ 1,500$ to $\$ 1,800$ in $1920 ;$ Quebec from $\$ 1,500$ to $\$ 2,000$ in 1920 ;
and New Brun ;wick from $\$ 500$ to $\$ 1,00$ in 1920 . In
Australia the members' indemnity has been increased to $£ 1,000$ and congressmon $n$ the United States get
$\$ 7,500$ in addition to an allowance of $\$ 3,200$ for clerical assistance. Judical salaries are also to be increased in
Canada as follows: Ch ef Justice of the supreme Court
of Canada from $\$ 10,000$ to $\$ 15,000$; Puisne Judges the Superior Court of Canada from $\$ 9,000$ to $\$ 12,000$;
Chief Justices of the Supreme Courts of the Provinces,
from $\$ 8,000$ to $\$ 10,000$; Puisne Judges from $\$ 7,000$ to
$\$ 9,000 ;$ County Court Judges from $\$ 4,000$ to $\$ 5,000$
where there is a city of 40,000 .

## Jersey breeder，and

 the Martin herd for ast year，and joined
## Farmers．

ain a message from Ditario Agricultura week or England to transmit a message this we gladly do，
eaders have，at one eaders have，at one farmers＇gatherings， nave been intimately ultural work in the
ive responsibilities it address and meet all parts of the n，which I do at
of Agent－General the kindness and of the kindness and
ed from the farmers ly acknowledge the Let me mention acts．In 1903，the the total attendance
with 299 boys in the was 2,115 ，with 615 ur－year agricultural class alone almost
1903．During this en established，and ended and strength－ During that time ed to their farms to ous farmers，and at
have been in ever－ of ever－increasing to me for trained
have no hesitation have no hesitation mark，the boildings tent and value to a nearly five years of the most illustrious tion．In its leader os military effort in t flow of comfort progress these all has been the e farmers of the great．I bespeak same co－operation ＇in the years that creased at remier Borden in e the sessional in－ $\$ 4,000$ ，provided
and members are Premier＇s salary $\$ 15,000$ ，Cabinet
Solicitor－General e Opposition from Senate and House 00 to $\$ 4,000$ ．It inces the sessional ；Alberta from to $\$ 2,000$ in 1920 ；
00 ）in 10$)$ as been increased United States get
$\$ 3,200$ for clerical supreme Court Puisne Judges of
$\$ 9,000$ to $\$ 12,000$ ； of the Provinces，
es from $\$ 7,000$ to es from $\$ 7,000$ to
$\$ 4,000$ to $\$ 5,000$

Toronto，Montreal，Buffalo，and Other Leading Markets
Week Ending June 24.
Receipts and Market Tops．

|  |  |  |  | TLE |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Receipts |  |  | ce Good |  |
|  | Week |  | Week | Week | Same | Week |
|  | June 24 | 1919 | Ending | Ending | Week | Ending |
| Toronto（U．S．Y．） | 4，632． | 4，793 | 5，364 | \＄17．09 | \＄14．25． | \＄15 50 |
| Montreal（Pt．St．Chas．） | 861. | $467 \ldots$ | 726. | 16.50 | 13.50. |  |
| Montreal（East End）．． | 1，287 | ${ }_{513}^{267}$ | 794. | 16.50 | 13.50 | $\begin{array}{r}16.00 \\ \hline 160\end{array}$ |
| Winnipeg． | 1，277． | 513.1 | 1，201 | 17.00 | 13.50 | 16.50 |
| Calgary． | 601. | 2，778 | 1，524 | 12.35. | 12.50 | 13.00 |
| Edmonton | 325. | 653 | 291 | 12.00 | 11.75 | 14.7 |

HOGS

\section*{| Toronto（U．S．Y．） <br> Montreal（Pt．St．Chas． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Montreal（East En |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | nipeg． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <br> Calgary．}

Dominion Dopartment of Africulturt，Live

| Week June 24 | OGS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Receipts Same | Week | Week | Price S Same Same |  |
|  | Weel | Ending | Ending | Week | Ending |
|  | 1919 | June 17 | June 24 | 1919 | June 17 |
|  | 9，843 | －．5，689 | \＄19．75． | \＄23．50． | \＄19．50 |
| 1，368 | 2，510 | 1，992． | 20.25. | 22.25. | 20.50 |
| 1，581 | 1，115 | 1，268． | 20.25 ． | 22.25 | 20.50 |
| 2，907 | 3，943 | 2，038． | 18.50 | 21.50 | 18.50 |
| 414. | 1，623 | 731 | 17.75. | 21.75. | 18.25 |
| 543 | 563 | 579 | 17.75 | 21.25 | 18. |


| Week | Receipts | Calves |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Week | Top Week | ce Goo | Week |
| Ending | Week | Ending | Ending | Week | Ending |
|  |  |  |  |  |  |
| 1，923．． | 1，754 | 2，878．．． | \＄17．50． | \＄19：50． | \＄18．50 |
| 2，379．．． | 1，638 | 2，584 | 13.50 | 14.00 | 16. |
| 2，199．． | 807 | 1，409． | 13.50 | 14.00 | 16.00 |
| 265. | 146 | 259 | 17.50 | 16.00 |  |
| 45 |  | 70 | 14.00 |  |  |
| 98. | 140 |  | 15.0 | ．．． 12.50 | 17. |


| Receipts |  | SHEEP ${ }^{\text {Top }}$ |  | Top Price Good Lambs |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Same |  |  | Same |  |
| Ending | Week | Ending | Ending | Week | Ending |
| June 24 | 1919 | June 17 | June 24 | 1919 | June 17 |
| 2，043 | 1，115．．． | 2，689． | \＄20．00． | \＄22．00 | \＄21．50 |
| 1，318． | 450 | 699. | ． 20.00 | 20.00 | 20.00 |
| 1，492． | 318. | 785. | ．． 20.00 | 20.00 | 20.00 |
| 318 | 204. | 347. | 16.00 | 15.00 | 15.50 |
| 740 | 547. | 44 |  | 15.00 |  |
| 56 | 2. | 46. |  |  |  |

## Market Comments．

 Toronto（Union Stock Yards） With the receipts of cattle about equal to those of the previous week，the marketwas as a whole very active．There were was as a whole very active．There were
forty－six hundred and thirty－two cattle offered and these consisted mostly of unfinished cows，light and unfinished butcher cattlei．The demand for choice very evident throughout the week，as in practically all cases the good stuff
was the first over the scales，while the was the first over the scales，while the
unfinished animals were purchased largely to complete requirements．The market opened on Monday with prices steady weef，and while unfinished cattle moved very slowly they were cleaned up to fill requirements of packers and local butch－
ers．On Tuesday offerings were light and trade limited with prices steady on all classes and a firm undertone
to choice killers which were scarce and to choice killers which were scarce and quickly picked up．Wednesday＇s open－
ing found the market very active and ing found the in strong in butcher stuff under a at Wednesday＇s close；prime stock was at 25 to 50 cents stronger，with heavy bulls moving slowly and light bulls obtain ing good prices；other classes for week sold from $\$ 14.75$ to $\$ 15.75$ ，with $\$ 17$ ，the top of the market．One choice load of twenty steers averaging eleven hundred and
eighty－five pounds topped the market at $\$ 17$ ．One load of twenty－two choice medium weight steers averaging eleven hundred and thirty pounds passed over the scales at $\$ 16.50$ ；one choice baby－
beef weighing six hundred and seventy beef weighing six hundred ands sold at $\$ 18$ ，and numerous others pounds sold from $\$ 16$ to $\$ 17$ ．Butcher heifers sold generally from $\$ 14.25$ to $\$ 15.25$ for good quality stuff，and $\$ 12.25$ to $\$ 14 . \mathrm{l}^{2}$ for prices topping at $\$ 13.75$ with most of the good butcher cows selling from $\$ 12.25$ to $\$ 13.25$ and $\$ 10$ to $\$ 12$ for fair．Heat draggy，medium weight bulls in good killing condition were in goor demand and topped at $\$ 14$ with most of the good going from $\$ 11.50$ to $\$ 12.50$ There were not market prices remained about teady．Stockers and feeders were no much in evidence either in demand o offerings，and remained steady，choic eeders going at $\$ 12.50$ to $\$ 13.50$ and stockers from $\$ 11$ to $\$ 12$ ．The eal market ended a littte stronger the opening when prices were about $\$ 1$ below the previous week，and close steady to strong on choice veal fro．
The sheep market was steady through－ 6 to light sheep from $\$ 7$ to $\$ 10$ and yearlings from $\$ 11$ to $\$ 13$ ．Lambs closed $\$ 1$ stronger over last week＇s drop and were holding firm．
The hog market was steady with prices $\$ 19.50$ for most of the selects，fed and nd watered
Of the disposition from the Yards for
the week ending June 17，Canadian the week ending June 1， packing houses purchased 5,150 butcher cattle， 52 feeders， 4,720 hogs，2，595 sheep and 30 lambs．Local butchers purchased hogs， 295 sheep and
butcher cattle， 262 hog



Classification
RONTO
heavy finished．．．
Bulk Sales
Top
Price

000－1，200 good
Steers
00－1，000
Heifers

## common

good
common

## veal．

veal．．．．．
grass．．．．
$388 \ldots . . . .$.
63
9． 1.75 －．．．．．．．．
$11.50-$
$9.00-$

ek

## 151 lambs．Canadian shipments were made up of 40 calves， 65 stockers， 326

 made up of 40 calves， 65 stockers， 320feeders， 221 hogs and 172 sheep．Ship－ ments to United States points consisted 82 feeders and 154 sheep．
to June 17 ，inclusive，were： 133,834 cattle， 44,623 calves， 161,777 hogs and 23,295 sheep；compared with 13,985
cattle， 32,596 calves， 172,491 hogs and 31,016 sheep，received during the cor－ －MontreaL
The break in prices predicted as likely cattle sold strong but common grass cattle were hard to dispose of at any
price．The market was not cleared up at any time during the week．A few
cattle were driven out to grass and a number of cattle are likely to be held over for next week＇s market．The
most definite reasons given for the slu⿳亠二口又土 gish market were the decline in prices
for hides，the statement that common cattle were too dear for boning and that that grade of stock．Steer hides and
cow hides were quoted around 14c．， and bulls 10 c ．Calf skins 20 c ．to 21 c ．
Two choice show steers from the Orms－ town fair weighing together twenty－
six hundred and fifty pounds and esti－
mated to yield $60 \%$ brought $\$ 18$ ．Twenty
one cattle averaging twelve hundred and five pounds brought $\$ 16.50$ ，and twenty－two steers averaging ten hundred and eighty pounds brought $\$ 15.60$ ．The
best of the commaner steers brought $\$ 13$ to $\$ 13.50$ ，thin yearling steers were $\$ 8$ to $\$ 8.50$ ，and twenty cows averaging The hundred pounds brought $\$ 11.60$ ． was $\$ 11$ ．Aneral price for good cows were sold at the latter figure．Pri es variously reported to be from 75 cents canners were sold down to $\$ 4$ ，and $\$ 8$ was the most general price for common weighed up in some yang at $\$ 6.50$ ．On Thursday eighteen bulls of dairy breeding at $\$ 9$ ．The price for calves was fully week and a number of dealers shipped to New York and other markets rather than accept the $\$ 12$ per hundred offered by calves sold as low as $\$ 7$ ．Quebec ycarlings moved from $\$ 6.50$ to $\$ 7$ and grass calves There was a
market for sheep and lambs．Receipts of lambs are incrasing and there will
likely be a lowering of prices．$\$ 18$ was
$\$ 10$ for good price for good lambe and ling ewes were weighed up at $\$ 13,50$ ， A number of sales were made to local for mixed and rough lots remained Prices steady．The price for sows was mos gencraty $\$ 4$ per hundred less than th fom Jan Chrarles．－The total receipte were： 13,772 cattle 38,512 calves， $30: 250$ 14,500 cattle， 38,117 calves， 32,993 hog and 7,503 sheep received during the East End．－Of the dispositio yards for the week ending June 17 ，Cana－ chased 1,409 houses and local butchers pur－ 1,212 hogs and 785 sheep．Canadian There were no shipments up of 56 hogs． States points during the week to United The total receipts from January 30,509 calves， 20,052 hogs and 6,706 sheep；compared with 16,650 cattle，
28,096 calves， 18,271 hogs and 8,107 sheep，received during the correspondin

Winnipeg
cattle, two hundred and sixty-five
calves, three hundred and eighteen sheep and two thotisand nine hundred and seven hogs, made up the weekly receipts. Eastern points accounted for thirty-two stockers and seventy-four butchers, two hundred and twenty-nine and sixty-one buitchers and twenty-eight and sixty-one butchers and twenty-eight
feeders were consigned to South. St faut The movement of stockers and feeders back to country points was mach ighter totalling only one hundred and four stockers and three hundred and fifty-eight feeders. Although receipt during the early part of the week were
of small volume Monday and Tuesday saw active trading with packers bidding strong for the limited supplies. Heifer tidd cows of good quality were especiall good sellers.

## Toronto Produce

## Breadstuffs

Manitoba Wheat-(In store, Ft. Wi(iam.) No. 1 northern, $\$ 3.15$; No. Manitoba Oats - (In store Ft $\$ 3.08$ liam).-No. 2 C.W., $\$ 1.30$; No. 3 C.W eed, $\$ 1.2911 \%$ : No. 2 feed, $\$ 1.291 /$
Manitoba Barley. - In store. liam). No. 3 C.W., $\$ 1.633$ : No. 4 C.W. $\$ 1.611 / 4$; rejected, $\$ 1.611 / 4$; feed, $\$ 1.611 / 4$ Ontario Wheat.-(f.o.b, shipping points according to freight)-No. 1 winter, per car lot, $\$ 2$ to $\$ 2.01$; No. 2 winter, pe car lot, $\$ 1.98$ to $\$ 2.01$; No. 3 winter, pe ar lot, $\$ 1.92$ to $\$ 1.93$; No. 1 spring, pe ar lot, $\$ 2,02$ to $\$ 2.03$; No. 2 spring, per ar lot, $\$ 1.95$ to $\$ 2.01$.
promipt shipment). No. 3 yellow, $\$ 2.40$ hominal
Ontario Oats- - (According to freights utside)-No. 3 white, nominal.
Peas.-(A
No. $2, \$ 3$.
Barley.-(Accordin side)-Malting, $\$ 1.87$ to $\$ 1.89$. Buckwheat.- (According to freight out Rye.-(According
Ry $\$ 20$ to 2.25 . Manitoba Flour Government standard, (In cotton bags) Ontario Flour.-(In jute bags, promp shipment)-Government standard, $\$ 13$ nominal, Montreal and Toronto.
Milfeed.-Car lots, delivered. Mont real freights, (bags included)-Bran, pe ton, $\$ 54$; shorts, per ton, $\$ 61$; good feed
flour, per bag, $\$ 3.75$ to $\$ 4$. flour, per bag, $\$ 3.75$ to $\$ 4$.
ton, $\$ 31$; mixed, per ton, $\$ 27$ Straw.-(Track, Toronto)-Car lots, per ton, $\$ 15$ to $\$ 16$.

Hides and Skins
Hides f.o.b. country points-Beef hides flat cured, 10 c . to 12 c .; green hides, 9 c horse hides, country take-off, $\$ 3$ to $\$ 5$ lambs, 75 c . to $\$ 1$; horse hair, farmers stock, flats, 15 c . alf - City butcher hides, green kip, 15 c . ; horse hides, green flats, 20 c . ivea $\$ 5$.
Tallow-City rendered, solids in barrels 11, to 12 c c. ; country solids in barrels, No. Wool.- Unwashed, coarse, 16 cents, medium, 22 cents; fine, 28 cents.

## Farm Produce.

Butter.- The market showed a firming cents per pound wholesale, selling as
follows: follows: Choice creamery pound prints, $57 \mathrm{c} . ;$ best dairy, 49 c . to 50 c .; medium dairy, 46 c . to 48 c .; bakers dairy
38 c . Oleomargarine, 34 c . to 38 c
Eggs.-Sold at practically unchanged 53 c . per dozen for No. 1 's and 55 c . to 56 c . per dozen for selects. Cheese. -Cheese did not vary during
the past week. Old being quoted at 34 c . the past week. Old being quoted at 34 c
to 35 c . per lb ., and new at 32 c . per lb . Poultry.-The demand for poultry is very weak and trade slow at a further
decline in prices. The following being quoted for live weight varieties.
Chickens, spring, 50 c . per 1 b . ducklings, and


Wholesale Fruits and Yegetables. Canadian cherries are coming in in of prices as the quality varies so- ralling \$1. to $\$ 2.50$ per six quarts, and $\$ 2$ to $\$ 3.50$ per 11-qt. basket.
Strawherries came in with a rush the beginning of the week and slumped in price selling at 10 c . to .15 c . per box., but recovered towards the latter part and brought from 20 c , to 25 c . per box. freely and declined in price. No. 1's selling at 45 c ; to 35 c , per lb ., and No. 2 's at 30 c , to 35 c . per 1 b
ties, ties, and had a wide range of prices, namely from. \$1 per 11-qt. basket, for $\$ 2$ per 11 ordinary variety to $\$ 1.75$ and $\$ 2$ per 11 -qt. basket, for choice large ones.
Beets.-Beets were slightly weaker due to the increased quantities offered selling at 60 c . to 75 c . per dozen bunches
Lettuce continues to be shipped in market; the head ranging from 40 c . to 75c. per doz
per dozen.
selling well atoes are arriving freely, and selling well at $\$ 7.50$ per barrel for No.
3's; $\$ 9$ to $\$ 11$ per barrel for No. 2's and $\$ 14$ to $\$ 15$ per bbl. for No. 1's.
market, the few offered bringing from $\$ 6$ to $\$ 6.25$ per bag.
White turnips declined in price, selling
at 30 c . to 60 c . per dozen bunches.

## Buffalo.

Cattle.-Cattle trade rùled full steady
last week on the strictly dry-fed cattlewhether in the shipping steer or handy butchering line-while a decline of from a half dollar to in some cases as much as a dollar and a half decline was noted on grassy cattle generally, the heaviest take with a medium to fair class of fat cows, It was about a half dollar decline on canners and cutters. Bulls sold a big
half lower and demand was slow and weak half lower and demand was slow and weak for anything in the stocker and feedex $\$ 5$ to $\$ 10$ per head decline. Trade wound up for the week strong on dry-fed cattle, with grassers weak. Supply was rateers selling up to $\$ 15.50$ to $\$ 15.70$
 common and plain, $\$ 12$ to $\$ 12.50$. prime, $\$ 15$ to $\$ 17$; choice heavy, $\$ 16$ to fair to good, $\$ 13.50$ to $\$ 14.50$; light an common, $\$ 10$ to $\$ 12$. $\$ 13$ to $\$ 13.50$; best butchering heifers,
$\$ 13$ to $\$ 13.50$; good butcher heifers, $\$ 13$ to $\$ 13.50$; good butcher heifers, $\$ 8$ to $\$ 9.50$; light, common, $\$ 7$ to $\$ 7.50$ very fancy fat cows, $\$ 11$ to $\$ 11.50$
best heavy fat. cows, $\$ 10.50$ to $\$ 11$ medium to good, $\$ 9$ to $\$ 10$; cutters, $\$$
to $\$ 5.50$; canners, good, $\$ 4$ to $\$ 4.75$; old rims, $\$ 3$ to $\$ 3.50$. $\$ 10.50$
Bulls.-Best heavy, $\$ 10.50$ to $\$ 11$;
good butchering, $\$ 8.50$ to $\$ 9$; sausage $\$ 8$ to $\$ 8.50$; light bulls, $\$ 7$ to $\$ 7.50$; oxen $\$ 9$ to $\$ 11.50$.
$\$ 9.50$ to $\$ 10$. Feeders - Best feeders, best stockers, $\$ 8$ to $\$ 8.50$; fair to good,
$\$ 7.75$ to $\$ 8.25$; common, $\$ 6$ to $\$ 7$; grazing cows, $\$ 7.50$ to $\$$
Milkers and Springers.-Best, $\$ 90$
to $\$ 125$; medium to good, $\$ 60$ to $\$ 85$ Hogs.-Hog prices made another gain with a deck or two $\$ 16.65$, but the general price for good hogs was $\$ 16.50$ and pigs Were up 25 to 40 cents, top being $\$ 17$, brought $\$ 17.25$, with a deck or two $\$ 17.35$, majority going at $\$ 17$ and Friday light sold at $\$ 16.25$ and $\$ 16.50$, and pigs landed at $\$ 15.25$. Roughs $\$ 13$ to $\$ 13.50$ and
stags $\$ 8$ to $\$ 10$ Receipts for the past week totalled 24,400 head, as compared
with 21,814 head for the week before and 17,000 head for the same week a year
ago.
Sheep and Lambs.-Supply was very light again last week, the grand total
being 5,400 head, being against 5,360
head for the week previous and 3,000 head for the same week a year ago.
Monday a few springers sold up to $\$ 17.50$,
but the general range all week on the
best was from $\$ 16$ to $\$ 17$. Best in the yearling line landed at $\$ 14$ and $\$ 14.50$. closing sheep were slow at last week values on these were up 25 to 50 cents. Friday best ewes sold from $\$ 7.50$ to $\$ 8$ and top w

## $\$ 9$.

week. Mondrade was good all of last week. Monday tops sold at $\$ 15.50$, Tuesday bulk sold at $\$ 15$, Wednesday the trade was the same as Monday, Thursday the best brought $\$ 16$ and $\$ 16.50$ and Friday the bulk reached $\$ 17.50$, with culls selling up to $\$ 15$. Canadian calves, of which there were fiye or six inder the natives. Receipts for the week were 6,615 head, the week before there were 7,283 head for the same week a yea ago 4,900 head.

## Montreal

Dressed Hogs and Provisions.-Dressed hogs showed a slight decline in price, being quoted at 29 c . per lb . for freshkilled, abattoir-dressed stock. Smoked meats were in good demand all round, and prices were steady. Light hams were 45 c . per lb .; medium hams, weighing 10 to $15 \mathrm{lbs} ., 42 \mathrm{c}$.; and heavies, 40 c . Breakfast bacon showed no change, being 45 c . to 47 c . per 1 l ., while Windsor selects were 55 c . Lard was in fair demand, selling at 26 c . to 30 c . per lb . for pure leaf. Poultry.-No interest was taken in this market, and there were no receipts from the country. Cold store stock con tinued to be quoted, turkeys being 53 c . to 54 c . per lb ., and chickens 38 c . to 40 c . Potatoes.-The tendency of prices of potatoes were downwards, and prices were somewhat below those of a week ago. Some new crop American potatoes were offering, and the easiness in Canadian of Quebecthus accounted for. Car lots $\$ 4.75$ to $\$ 5$ per bag of 90 lbs ., ex-track, while about 50 c . was added for smaller Maple Products.-Very little maple prices are steady, being $\$ 2.75$ per gal. tin. Maple sugar is unchanged at 28 c . to 30 c ,

Eggs.-Prices of eggs remained unchanged last week. Supplies were fairly though deteriorating. Prices were unchanged, being 57 c . per doz. for selected
fresh, 53 c . for No. 10 fresh, and 48 c . 49 c . for No. 2 fresh
Butter.-The tendency of the butter market has been upwards, and prices
were higher than they were a week ago Pasteurized creamery was selling at $581 / \mathrm{c}$. to $583 / 4 \mathrm{c}$. per $1 \mathrm{~b} .$, while finest
creamery was 57 c . to $51 / 2 \mathrm{c}$., and fine
56 c to $561 / \mathrm{c}$. 56 c. to $561 / 2$ c. per lb
Cheese.-Country cleared at $281 / 4 \mathrm{c}$. to $3 / 4 \mathrm{c}$. per lb ., in to 29 c . $\$ 1.50$ per bush. for No. 2 Canadian
Western, $\$ 1.49$ for No. $3, \$ 1.48$ for No. feed, ex-store.
Flour. -Some large export orders hay tendency of prices is higher, though
quotations are per bbl., in jute, for Manitob $\$ 14.85$ wheat flour, ex-track, Montreal freights,
with smaller lots at with smaller lots at 10 c . higher, and a
discount of 10 c . all round for cash Ontario winter wheat flour is unchanged at $\$ 14.40$ to $\$ 14.50$ per bbl grades selling ton bags, and 40 c . less in second-hand jute bags, ex-store. White corn flour is
selling at $\$ 12.80$ in small lots $\$ 12.50$ per bbly in points, and rye flour at Millfeed.- Bran in mixed car lots with
flour is $\$ 56$ per ton, shorts being $\$ 63$ four is $\$ 56$ per ton, shorts being $\$ 63$
while without flour $\$ 4$ per ton more is realized, including bags, delivered to the Baled Hay.-No. 2 timothy hay was
teady at $\$ 29$ to $\$ 30$ per ton, No. 3 being
$\$ 27$ to $\$ 28$, and clover and clover mixed 27 to $\$ 28$, and clover and clover mixed
25 to $\$ 26$ per ton, ex-track.
Hides.-Prices are down Hides.-Prices are down again. Steer
and cow hides 14 c . per lb, bull being 10 c .
per lb ., and calf skins 20 c . to 22 c , and
kips 15 c , per 1 b . Lamb skins are 35 c

Monday's Live Stock Markets.
Toronto. Cattle,-Receipts, 4,723. Market active, with last weel's strong prices holding steady. Unfinished stuff fifty cents lower; medium down fifty cents. Stocker and feeder market quiet ng 1.240 lbs . sold $\$ 16.25$. Bulk qualit butchers sold. 15 c . to 16 c . Several baby beeves up to 17 cents. Several export orders seem to be responsible for firm market in choice stuff. Quotations: Heavy beef steers; $\$ 15$ to $\$ 16.50$. Butcher teers, choice, $\$ 14.75$ to $\$ 16$; good, $\$ 12.7$ to $\$ 14.75$; medium, $\$ 11.50$ to $\$ 12.50$ choice, $\$ 14.50$ to $\$ 15.75$. medium. $\$ 1150$ to $\$ 14$; common, $\$ 9$ to $\$ 11.50$. Butcher cows, choice, $\$ 11.50$ to $\$ 14$; medium, $\$ 9$ to $\$ 11.50$. Canners and cutters, $\$ 5$ to $\$ 7$. Butcher bulls, good, $\$ 11$ to $\$ 14$ common, $\$ 8$ to $\$ 10$..Feeding steer's, good $\$ 12.50$ to $\$ 13.50$; fair, $\$ 1$ to $\$ 12$, Stock Calf receipts, 850 . Calf market stead $\$ 16.50$. Two choice calves sold 10 Quotations: Choice, $\$ 16$ to $\$ 1750$ medium, $\$ 13$ to $\$ 13.50$; common, $\$ 9.50$ to \$12. Milch cows, choice, $\$ 125$ to $\$ 160$ springer, choice, $\$ 15$ to $\$ 120$.
Sheep.-Receipts, 1,246 . Sheep and lambs steady with weak underline ambs. Quotations: Ewes, $\$ 8$ to $\$ 13$ Hog receipts, $1,748$.
cents stronger over lost Hog, market 25 holding firm. Quotations, fed and watered basis, selects, $\$ 19.25$; lights, $\$ 17.25$ heavies, $\$ 18.50$; sows, $\$ 14.50$ to $\$ 16.50$.
Montreal, June 28. Cattle.-Receipts 1,315. Prices for good cattle were 25 to slower. Harder to sell than good grades a number of the heaviest loads have no been sold yet. The top price was \$16 Twenty-two cattle, averaging $1,085 \mathrm{lbs}$. brought $\$ 15.75$; one oad of lighter steers $\$ 14.50$ aberaging about 1,000 pounds, brough tween these figures. Good cows sold be to $\$ 11$. Four baby beeves, averaging 600 los. brought \$16: common cattle, bulls, cows and heifers, from \$6 up. Quotations: Butcher steers, choice, $\$ 15$ to $\$ 16$; good $\$ 13.50$ to $\$ 15$; medium, $\$ 11$ to $\$ 13$; com$\$ 13, \$ \$$ to $\$ 10$. Butcher heifers, choice $\$ 13$ to $\$ 15$; medrum, $\$ 10$ to $\$ 12$; common $\$ 10$ to $\$ 11$; medium, $\$ 6.50$ to $\$ 9.50$; can mea to ss mute sion is Butcher bulls, good, $\$ 10$ to $\$ 10.50$; com Packers are still offering $\$ 12$ for fairl good calves. Some sales have been
made at $\$ 13$. Commission firms are holding the best lots for $\$ 14$; common, thin calves from \$6 up; mood calves, \$1 to $\$ 14$; medium, $\$ 6$ to $\$ 10$; grass, $\$ 7$ to common.-Receipts, 1,011 . The most There were a very few good sheep offered Lambs were selling generally at $\$ 17$ for
good; ewes, $\$ 7$ to $\$ 9.50$; lambs, good, $\$ 15$
Hogs.-Receipts, 954. For select lots former contracts. Mixed lots of Eastern hogs, containing a large percentage of
sows and roughs, with few if any selects, have been sold at $\$ 17$ to $\$ 19$. Quotations: Off-car weights, selects,
$\$ 20.50$; sows, $\$ 16$ to $\$ 16.50$.
Buffalo.-Receipts consist of 4,000 cattle. Choice shipping steers holding
strong with best natives, $\$ 17.75$, and best Canadians, $\$ 16.25$. Unfinished and grass 9,600 hog
and heavy hogs sold from $\$ 16.75$ to $\$ 17$ Lights, $\$ 17$ to $\$ 17.25$. $\$ 16.75$ to $\$ 17$.
Lis $\$ 7.60$, - Receipts, 2,400 . Best ewes $\$ 16.50$ to $\$ 17$. 2,400 calves with tops selling at $\$ 17$.

Markets concluded on page 1230.
"What's the new baby's name?" asked "It hasn't any name yet," was the "Then how do you know it is ours?"
"Don't you think a girl should marry "Oh, I suppose so," answered Dolly;




 2


$\qquad$
"but II tell supose t so," answered dolly; aps 15 c . per lb . Lamb skins are 35 c .
ach and clips 50 c.
Horse hides are $\$ 5$.

## s Live Stock

 arkets.attle, - Receipts, 4,723
vith last wweek last week's strong medium down firty nd federer market quiet 1 s16.25. Bulk qualit to 16c. Several bab stuff. $\$ 15$ to $\$ 16.50$. o $\$ 16$; good, $\$ 12.75$
si1 50 11.50 to $\$ 12.50$
Butcher heifers medium, $\$ 11.50$ to $\$ 11.50$. Butche and cutters, $\$ 5$ to Feeding steer', good 2; fair, $\$ 10$ to $\$ 11$ Calf market steady
selling from $\$ 16$ to oice calves sold 19 c 1oice, $\$ 16$ to $\$ 17.50 \mathrm{c}$
13.50 ; come to $\$ 125$ to $\$ 160$ is, 1,246 . Ewes . Hog market 25 tations, fed and watered 19.25 ; lights, $\$ 17.25$ , Catte,- Receipts
cattle
were 25 to good catte were 25 o sell than good grades eaviest loads have no e, averaging 1,085 lbs. ne load of lighter steers cattle will be sold be Good cows were up y beeves, averaging 60 rom $\$ 6$ up. Quotations dium $\$ 15$ to $\$ 16$; good Butcher to $\$ 13$; com $m, \$ 10$ to $\$ 12$. Butcher cows, choice
$\mathrm{m}, \$ 6.50$ to $\$ 9.50$; can cutters $\$ 5.50$ to $\$ 6$ d, $\$ 10$ to $\$ 10.50$; com offering $\$ 12$ for fairly Commission have been p; good calves, $\$ 12$ $\$ 10$; grass, $\$ 7$ to

1,011. The mos ce god the ofered 9.50; mamber good s: Rat, For selest ioted Mixel lots of Fasterer mithew fran expects
 consist of 4,000 hipping steers holding
itives, $\$ 17.75$, and best Unfinished and grass eceived. Medium
from $\$ 16.75$ to $\$ 17$. 480 Benct teen is elling at 517 . on page 1230 .

Names.

## BY AbBiE FARWELL brown

Many poems are appearing in honor of the "Pilgrim Fathers"" tercentenary celebration, which is being celebrated this,
year over the route which the "fathers" year over the route which the "fathers
took in 1620 . One of best of these, so far, is the following, which appeared in The Atlantic:

From Somerset and Devon, From Kent and Lincolnshire With hearts of steel and fire
From leafy lane and valley, Fair glebe and ancient wo Poured forth their warme

Out of the gray-walled cities, Away from the castled town Corners of thatch and roses,
Heathery combs and downs

With neither crown nor penny But an iron will they ca And a good old English name

An empty silence met them, But they called the wild "New England," For the sake of the blood they bore. Plymouth, Exeter, Bristol, Boston, Windsor, Wells,"
Beloved names of england bells.
Rang in their hearts like be
They named their rocky farmlands, Their hamlets by the sea, In racial loyalty
Cambridge, Hartford, Glouceste? Hampton, Norwich, Stowe And sealed their sonship so.

The old blood thrills in answer As centuries go by, acheng To names that meant
A signat, or a a sigh.
Now over friendly waters Call with their kinship in each, Call with their kinstip in a name
One race, one truth, one speech.

## Blue, in the Sky

THE other day there appeared in the rather astounded comment among a great many people. It read somewhat
in this wise: school teacher iff Ontario, Mr. Percy P. McCallum, has just been re-engaged for St a. salary of s $\$ 1,750$. It is expeted that by the end of the year the minimum average
$\$ 1,200$." salary in it item tells two stories: (1) That Essex County must be one of the most prosperous districts in the
Province and (2) That, since the school teachers are purveyors of education, the fact that they are paid such good salaries shows that the value of education to the
people is recognized there. peophe is recognized hered
It is only to be expected, however, that the standard set for teaching ability in the standard set ior teaching ability in baked knowledge, indifferent teaching powers, lack of enthusiasm in the teaching force will not likely be tolerated there. hance "The the chit teachers, -the best doubt be the slogan in Essex County, and should be everywhere. The right sort of teachers demand that standardthe satisfaction of their sense of re-
or to-morrow they will have to shoulde the burdens of the world.
ich course, some school sections are no such places the question of salary in bound to loom high. "Here is an excellent teacher. But how can we afford to pay her what she is worth? If pick her up, and no one to blame either." pick her up, and no one to blame either. not forthicoming-and the children suffer
In his speech on education, delivered in the Ontario Legislature some week go, Mr. Thomas Marshall made a sug gestion that, in time, may help to solv his problem, vigra that the Provinc especially towards salaries. This would tend to equalize teachers' salaries in eneral, and would ease the payment in some localities which are finding it difficult to make both ends meet in regard to school affairs.
A second bit of blue in the educationa sky of rural Ontario is the increasing nterest that is berge in syin the plan lated rural trustee boards by a linked-up system of township and county boards, running upwards, perhaps, into a Pro vincial board which can meet in Toronto at the time of the big convention of the Ontario Educational Convention, during the Easter holidays. The idea, in a nut-
shell, is: To have each rural school

section sen township board, which meets at regular intervals to discuss the educational affairs for the township; the township the county board, which discusses the more general educational affairs of the whole county; and the county board, in its turn, sends a representative to the Provincial board-which is in a position to come into close touch
ment of Education. it this plan promises On the very face of it this plan promises given by the old system of independent trustee boards. Occasionally, it is true those boards did splendid work; but
who considered their whole duty done if bought firewood, broom, and chalk. and There is more dignity about the new plan. It gives the trustees a chance to get out a bit from their own shelf,- out into the world a bit, where they can see what other sections are doing, and hear what real educationists are proposing for
the good of the schools. Given reprethe good of the schools. Given representatives of common serise, a fair be a bold step upward along the line of education
districts.
-Also it is just possible that the county educational boards may come into some sort of working grips with the county
councils. At present there seems some need of prodding up those august bodies along educational lines,at least if one may judge by the following bits of
"What is
What is the attitude of the county councils, generally, towards education in the counties:
The question was addressed to a school
inspector of manyy years' standing Per inspector of many years standing. Perday, perhaps he had not. At any rate he replied, readily enough: "I should call it an attitude of polite forbearance. You know - with mild sarcasm- the business of county councils is primarily to keep down expenses. when weighed in the balance with dollars when weighed in the balance with dollars and cents.'
educationally, here in Canada?
"Speaking for Ontario, yes, a little" ne concluded. "There's some talk out around the country about township trustee boards, and a little about consolidated schools.

## Wolidat do you think about con

 "Oh, I'm for them: Of course they're expensive, and there's the trouble about of the old school-houses. But some of the country districts could afford consolidation all right. Certainly more efficient work could be done by having it. Efficiency, you know, is usually cheap at"What do you think of the two-room school for the rural districts?"
chuct better than the ore-mom school,-no doubt about that.
The next person quizzed was a man
who has had much to do with muniwho has had much to do with muni-
cipal affairs. cipal affairs,
councils talk the township and county councils caucuses?"

## ned

"Roads, bridges and Houses of Refuge.
"What about educating the children?" "Not much. Once in a while they talk about increasing the school grant, but usually it's left at the minimum.
-So there it was again!
Still-there is Essex County. And there is the increased grant for education.
And there is the tall about township trustee boards. . . . Surely there's enough blue in the educational elky 'to make a Dutchman's breeches."

At fl everits ftes the to Curnadi to be alive and doing.
As someone has well said, "Education is not only a municipal duty; it is Prothe south of us appear to be realizing that truth. This year -was brought il in Congress at Washington the "SmithTowner Bill" asking that a Federal Department of Education be established in the United States, with an appronriation of hundreds of millions of dollars for ediucation. That such action is in the
air foretells a tremendous intellectual air foretells a tremendous intellectual is true, education in Canada has been more cosmopolitan than in the Ulifted States. But the United States may have learned a lesson in the War, and if so there is nothing in the way of her expansion intellectually, It is certainly up to Canada not to lag behind. Her sons should stand side by side with those over standing of America's people.

## Your Health.

## By "Medicus."

## Appondicitis-Can You Prevent It?

$\mathrm{O}^{\circ}$UR ancestors were blgger eaters than some of their descendents. tract was required in those good old days. (The H. C. of L: had no terrore then), At one time of our evolution, when the glory, there had been some tucks or puckers put in the length of the bowel, and to overcome this handicap the Romans arranged around their banquetting tables, stalls, one immediately behind each guest. When the Epicurean felt stomach he could get immediate relief stomach he could get immediate relief
in the seclusion of the stall. Once his stomach was emptied he could start all over again. It was a case of "Live to eat." I wonder if they ever had ine, digestion. They had lots of fun anyhow, What good cook wouldn't enjoy a Roman for a husbiand?
The tyck or pucker in the bowel has become bieger and bigger, and what is
left we.callthe appendix. It is about the left we call the appendix. It is about the
size of your little finger, and has nothing to do in the digestion of food, and, like everything (everybody) that is idle, gets into trouble itgelf or gets somebody else into trouble, and we label the trouble "Appendicitis?
Now, what causes appendicitis? Well, cause cancer). The small concretions found in the appendix, on careful study, are not grape seeds. It is not definitely known what causes this distressing and serious disease. So when you don't serious what causes the disedidyou can't
knowent it.


An Exquisite Garden:
$\qquad$

Symptoms. - Päin, colickỳ, of sudden onset, usually referred to the navel but may be complained of anywhere in the
lower abdomen. Why you ha many generations ago wrots. Hilton entitled "Rest and Pain." He enunciated the theory that pain was Nature's method of telling the body that it required rest. If Dad sprains his ankle and it swells up and is hot, if that ankle didn't And if he did he would likely do permanent injury to that joint. So whenever you have a pain in your abdomen it indicates need of rest. Give the stomach and intestines rest. Nature then puts on a splint, just to stop the intestines from moving around. When the doctor puts "hard as a board." The muscles of the abdomen have contracted, and to lessen the tension a bit, your patient draws up his knees, or perhaps just his right knee. Vomiting soon follows the onset of
pain. Why does your patient vomit? pain. Why does your patient vomit?
If any food or water is left in the stomach If any food or water is left in the stomach it will soon pass into the intestines and cause them to move around some. But empties his stomach to prevent the bowe from doing any work. Nature may cause the bowels to move, thus emptying the whole gastro-intestinal tract The patient may have a slight rise in temperature and a pulse around 100 to sick man. He looks sick and depressed Trealment. -The most funidamental thing to do is to follow the indications of Nature, our best doctor, give complete rest to the gastro-intestinal tract. Stop all food and water by the mouth. If the bowel is given complete rest adhesions
will form between the coils of the bowel and shut off or shut up the appendix in one corner by istelf, and thus it beromes a whole lot less dangerous. If the coils of bowel keep moving the adhesions are torn down as fast as they form. Let me repeat-Absolutely no food or water. He will not starve. The greater difficulty is thirst. Allow him to suck ice (but in his mouth. Keep his tongue clean by frequently washing it with normal
saline (teaspoonful of salt to a pint of water). Then, too, a saline enema by the bowel is helpful; every 8 hours inject slowly 1 cup of norman salt solution.

Avoid purgatives, especially castor oil Why? Because purgatives keep the intestinal coils moving, and prevent the hesions may save your life. If you give castor oil it almost invariably means an operation. Rarely did my patients require an immediate operation if they were not purged. Purging does not re move the cause of the appendicitis, but increases the seriousness of the disease. bag can be applied. It is immaterial Use can be applied. . it is immaterial comforting to the patient. It is a advantage to raise the head of the bed two brick bats under each corner. Tha favors the localization of the diseas in the lower part of the abdomen, wher more readily than with inflammation in the upper abdomen.
Once you have an an attack you are liable to have recurrence, and you should be prepared and know exactly what to do If you have more than two or thre attacks it is wiser to have the appendix away from your doctor or a hospital where you could get suitable treatment. (1) Pain usually means rest. In appendicitis it means rest to the whole drink. You can go 40 days without eating. Other people have. But you wo have water-normal salt enema Keep the tongue clean.
(2) Avoid purgation. If the baby has colic, or cramps, or plain belly-ache it may be appencicitis, and if you give it a dose of castor onl, and it is appendicitis you don't purge it and don't feed it you will likely escape an operation. At the most give it a saline enema.
attacks of appendicitis have the appendik
A Health Slogan
Wash you hands before you eat
and save your life.

## A Successful Year.

## For the Women's Institute

 Miss Ethel Chapman, Convener of th very successful yearIn addition to the usual splendid work of sending donations to tubercular and school medical inspection, demonstration classes in domestic science, sewing, home nursing and first aid, etc., some sperial features are mentioned. Parkhill, after sending 10,000 cans of fruit to the hospuas, has a der pai.t. The S600 after all expenses were pal. . The
canning for 400 homes was done at the ${ }_{c}^{\text {canntre. . . In Peel County Child }}$ Welfare week has become an institution, the clinic being held this year at Alton. planting Ripley Institute arranged farmplanting 100 trees, donated by
Malton and Erindale branches are arrang ing to hold school dental clinics during the summer. . . Kemptville is building Maynard and Eugenia are putting up memorial monuments, Walkerton is fitting up a memorial park, and Lakeview
and other institutes are assisting in and other institutes alre assisting in
building memorial halls. Stamford Institute built its own hall, costing $\$ 9,000$. At Moose Creek the Women's Inslendid example by co-operating in splendid a hall. The Algonquin and Maxville Institute and others have established rest-rooms, while Strand, Kirkton, Highgate, Scotland and Athens have given valuable assistance to the libraries. Ceylon Institute (Grey
Co.) is establishing a community Church.

At the annual convention of the Institutes of East Simcoe, resolutions outlined by the Ontario Federation, objecting to any relaxation of the present divorce laws, endorsation of Justice feeble-minded, supportions higher educational movements (including increased salaries for teachers), and disapproving physical training) into the schools.

The weakness of the Act permitting only farmers' wives and daughters to serve as school trustees in unincorporated
districts was pointed out in the case woman of the district who had been returned to office in an unincorporated
village, and had not been allowed to ac by reason of not being a farmer's wife or daughter.

## The Ingle Nook



 Matatioway (4) Allow one month in thi

## A Visit in Peony Time

THE peonies Peo over for this yearvision of them is still in our minds e, may be a good time to write (or to read) about them. Some sort of vision precedes every action, and the dream o beautiful fowers that we cherish to-day is fairly likely to push us into procurn)
some roots of them when plantingtime comes in the fall

Among flowers that may be planted in the fall, by the way, are peonies perennial phlox, delphiniums (tall larkspur), and Oriental poppies. Some notes on the proper method of planting thes To-day-to our "story

A call to the telephone-long distance "St. Thomas is calling," came the telephone girl, and then, in a moment, an enthúsiastic one
"Dr. Bennett's speaking don't you come down and see a real town? The peonies are all out in bloom, and-

No " need to tell any horticulturist in Ontario that the enthusiastic voice be longed to Dr. Bennett, the man who "made" St. Thomas grow flowers-grow flowers until its fame as a flower city over into the United States.-Incidentilly, just a few days ago (from time of writing the Doctor's peonies won some of the best prizes at a flower show in Detroit.
Why should not Canadians and United States folk come into companionship over their peonies, and dahlias, and gladioli hever mean rivalry at any fiower is never mean rivalry at any flower show seen real rejoicing and pride that the seen real rejoicing and pride that the splendid blooms. And, of course, it is

Stamford Women's Institute is the first in ontario to buid and own a
Memorial Community Hall.


Dr. F. E.' Bennett, the man who made Peonies.
been allowed to act
ig a farmer's wife or
le Nook nce in this and other
diy write on one side of
send name and address
 warded to anyoue, pla e read
in this
near
eony Time
over for this years still in our mind's time to write (or to Some sort of vision n , and the dream of it we cherish to-day sh us into procuring
at may be planted way, are peonies,
nhiniums (tall lark phiniums (tall larkod of planting these
a the time comes.
hone-long distance calling," came the eaking. Say, why out in bloom, andny horticulturist in
thusiastic voice benett, the man who grow flowers-yrow
e as a a flower city" $e$ as a "flower city"
lada a and even lopped
 from time of writing)
won some of the best win Detroit. anadians and United companionship over
Rahlias, and sladioli? mioship. There is at any fower show.
.$\quad$ But often I have and pride that the able to grow such
nd, of course, it $i=$

always held permissible to be proud over winning a prize.
well:-The early atternoon electric where Dr. B. with a party expectant as "Cook's" tourists, and a big motor car of an appropriate olive green color, were curally.

Along the streets occupied by the railwaymen's houses the big car hummed its way. Every home had flowers, some
more, some less; peonies, and matrimony vine, rose-bushes and Dutchtran's pipe vine were among those that one's conAlso one noted boulevarded streets wit flower-beds, railway station grounds in orocese of transformation into partre and school and church grounds all falling into the march of making St. Thomas beautiful with flowers, shrubs, trees and vines.
At one point a deviation was made on purpose to sea a gingko tree on somehair tree," and really the leaves are strikngly like those of the maiden hair fern. he tree is hable and, as a botanical garden effect it is no better than mope our native trees.

Pinafore last lapse of the way before topped, and everyas reached, the car first glance one's eyes took in a charming hittle bungalow, a point of Pinatore Lake, peonies in full bloom. Closer inspection evealed climbing roses over the rustic fence; a delightfu! little summer-honise made of cedar branches with the bark left on (like the fence); a swinging bridge ver the water-to the hen-house!-and other flowers also, besides the peonies and "I Dr wanted you to see this place," said Dr. B., every bit of it Rewbotham has summer-house and all It shows what one man can do in odds and ends of snner time." And there it is! People have no idea in "odds and ends of time" until they try. Of course, taste for beautiful things is a requisite; but anyone can cultivate that. One cannot conceive of a man or
woman who could not cultivate a taste woman who could not cultivate
for beautiful flowers and trees.

Pinafore Park was the next point, and while there I tried to get all the "hunches" establishing rural parks here and there establishing ruraip
Pinafore Park (it got its name, by the
way from Sullivan's opera "Pinafore", which happened to be "on" in St. Thomas when the park was opened) has, of course, its stretches of sward for pames, etc but the most interesting part to me was
the portion which is being turned into the portion which is being turned into a botanical garden, with every specimen
labelled, so that people who visit the labelled, so that people who
place can pick out the kinds they like place can pick out the kinds they like order the same kinds for their own gardens or parks.
The peony beds were wonderful. No wonder that hundreds of people had visited them the day berong the heds I wrote down the names of the kinds I liked best, and here they are:
Pasteur-Pale pink, very fine.
Madame de Vatry-Pale pink shading to
Mons. Jules Elie-Pink
Mons. Jules Elie-Pink.
Asa Gray-Pale pink flecked slightly Livingstone-Pink. Flowers late.
Gen. McMahon-Deep pink.
Therese-Pink.
4lbatre-White
ter. Very beautiful
Mt. Blanc-White; fringy, tinted to sulphur at centre.
Florescens-White, like a big white water lify. ${ }_{\text {Rubra }}$ Edriumphans-Very deep cerise $L^{\prime}$ Eclantanie-Cerise
La Rosiere-White
Avalanche-White. Triumph de la Exposition de LilleNor must one forget the satisfactory white Festiva Maxima, and
of single peonies from Japan.

## Get ready to save the Firuits

Outdoors the fruits are ripening today. The Strawberries are blushing in the meadow, and soon the Raspberries will appear, then the Cherries white and red, and after that the plumper fruits, Plums, Pears, Peaches.
But tomorrow the winter comes, and how your folks will miss the fresh fruits of summer's plenty. So decide NOW to make the most of the season's luscious preserves, jams and jellies will mean when canned fruits and manufactured proserves become almost prohibitive.
Do your next winter's marketing now. Provide Butself in time with jars, rings, glasses, utensils. spoil. Cook all your freserving so thatic pareor CANE SUGAR, Nature's great heat and energy food. Have everything at hand as the various fruits ripen in your own garden or orchard, or when they are plentiful and cheapest in the market.


Mutual Benefits Day by Day
Nuen withe divin tin

 poun Rho net protil teilled



mMutual Life of Canada Waterloo-Ontario

Elsewhe tioun shrubs and trees growing lustily, quite nviting people to imagine how interest-
ing and beautiful others of the same kind would be about the homes of Canada.
took note especially of: a beautifu
"white fringe" tree, whose more elaborate wame is Chrionanthus virginica; a Russian olive (Elaegnus augustifolia), with gray oliage, that would be fine to plant anyis desired (the grays and blues orroduce that illusion); a lovely fringy tree with that illusion); a lovely fringy tree with
purple flowers that made one think of heather-Tamarix hespida; the "smoke tree"; a golden Elder (Sambucus aurea) and a white elder (Sambuscus acutiloba) In another corner the roses were just
beginning to bloom. "What rose would you
"The hybrid perpetuals and the rugosas," the Doctor replied, without a moment's hesitation, and then he that looked attention to a "Penzance rose, with bright salmon pink flowers, most delightfully scented. "It's a favorite," An in
An interesting specimen in this part of the grounds was a vine, Euonymus to any brick or stone wall, and is very beautiful in autumn and early winter because of its clusters of brilliant red Before leaving Pinafore Park we saw the very birdhouse at which the famous
"battle" between English sparrows and "battle" between English sparrows and some weeks ago, took place. The story
was every word true. The birdhouse is a big colony affair-a real apartment house in the bird world and some purple martins had taken possession. Some
sparrows came along, ousted the martins

## FACE WAS FUIL OF PIMPLES

ForThree Years, Hardand Awfully Sore, Disfigured. Cuticura Heals.

I had been sufiering whith a plimphy fice for throe youth the fice Was full of pimples and they were hard and awfully sore. They fee-
tered and dried up, and were scaly, and disfigured my face. They caused me to lose a lot of sleep, and were awfully itchy, making me scrateh and Irritate my face.
"I started to use" Cuticura Soap and Ointment and I used twó calree of Cuticura Soap and two boxed of Cuticura Ointment when I - -e healed." (Signed) CHfford Yeomans Tast Chezzelcook, N. 8 .
Use Cuticura for every-day toiltet purposes. Bathy with soap, soothe Soap 28 se . Oimfacet 25 and EOe, Sold throughout the Dominion, CanadianDepot:
and set up their own household efects. But a day or so later the martins came back with a big force of other martins, a
battle royal was fought, the sparrows

## Eight Fires in One District from One Thunderstorm

8 Fires IN WAKF
OFEIECTICSTORM
Property Loss of More Tha $\$ 100,000$ in Frindale District.

SIX BIG BARNS DESTROYED Fine Residence of p
Brothers Also Falls Prey to Flames.
$\qquad$

Not a Building Protected by

## Shinm-Flat

 Lightning RodsWas Injured
Every year the same story is told; the story of loss by lightning And yet, only a few people have learned the necessity of adequate protection against that remorseless destroyer-lightning. Disasters such as the storm of June 12th, are likely to happen anywhere any
time, and the only absolutely certain safety is under the protection of

## Shima-Flat

Lightning Rods

These pure copper, woven wire, flat shaped cables are proved by science to be the most perfect conductor of electric current, and will carry off with safety a $36 \%$ heavier charge than any other orm of lightning rod. Prevention is cheaper than insurance, for insurance never pays alr for making profits on the form lost time and interruption to the regular work that is so nake sure of safety by installing Shinn-Flat Lightning Rods, and do it NOW. Full particulars, prices and descriptive booklet on request. We have dealers everywhere who are trained to install the ShinnFlat Systems correctly. Have you read "Lightning and Its Control," by Prof. Day. This valuable and interesting book will be sent free on request.

Write to-day for interesting booklet on LIGHTNING CONTROL, by Professor Day,
Shinn Mfg. Co. of Canada, Limited; Woolvich St, Guelph, ont
were driven off and the mattins reigned
supreme. They are still there. Truly
Tuly
an apartment house
worth fightin
-From Pinafore Park to some of the magnificent trees spread their shade
over velvety over velvety lawns, and the flower gardens were given a plot to themseves,
as they should be in spacious grounds. Irises were just at their height of
perfection, tall "gas plant" and garden perliection, golden coreopsis, clematis arby like those of the vine clemers paniculata); pansies; sweet-scented "rockets", almost over for this year; tall
blue delphiniums just "coming out." But it would take a long time even to
name the plants in those gardens; so I must stop here, just pausing perghaps more than anything else. It mat of glossy leaves that looked strangely familliar. "Yes," she said. "They grow wonder
fully when you take care of them. You should see them when they are all bloom in spring." hepaticas of our woods responding to the loving touch with all their might. One
could almost imagine them smiling up into the face of the Garden Lady "Isn't it odd how some men seem
hate a tree?" said one of the party hate a tree? satmired the tall elms and other fores giants that made the very setting and
character of this place. "You'd think,"

## Greatest Tire Offer

 Ever Made!
never so happy as whe And here I want to enter a protest that, I am sure, would be enidor Think well before you sacrifice single tree about your home grounds Remember that nothing so After them appearance or a place And vines, all invaluable for beauty, and so able to take care of themselves, as a rule, when once properly planted. . Last of all about a country place, consider the low growing flowers, the perenniats perthap West ould be without their refining infuence and the thrill of pleasure they give every time one looks at them? A little care they require, of course, but it is time repaid ar Our little trip to the Flower City is past, but we shan remember ineffectual if we have passed on to you even one inspiration, or one idea to work out àbout your own home or in your own community park.

Worth Thinking Over There is a lesson in each flower, A story in each stream and bower, In every herb on which you tread, Will lead you from earth's fragrant To hope and holiness and God From Adams's Quotations.

Meatless Dishes for Sultry Days.
Spinach Eggs.-Four eggs; spinach, swiss chard, or beet tops; white sauce, boiled eggs and rub the yolks through a sieve. Season some cooked greens with a little butter and cream, and fill the whites of the eggs with the mixture, piling it over the eggs. Pour over the the yolks of the eggs on top and brown in a quick oven. To make the white sauce rub together 2 tablespoons butter and 2 of flour. Stir into a pint of boiling milk and stir until it thickens to a salt When it is. Add butter and lightly with paprika or pepper
Bean Fricassee-One lb. beans, 1 table spoon butter, 1 cup rich milk, catsup beans and drain. Seasoning. Brown the butte slightly in a frying-pan, then add the minced parsley and salt and pepper to taste. Stir in the milk, or thin cream and let stew for a few minutes. Season with a little vinegar or lemon juice and tomato or mushroom -atsup. or stewed tomatoes, 2 cups crumbs, $1 / 4$ cup butter, seasoning. buttered casserole or pudding dishgayers of the tomatoes and crumbs until all are used, having the crumbs on top. Bak
a golden brown and serve very hot. a gorn Chowder. Two cups corn cups milk, 4 cups diced potatoes, seasoning, 2 cups boiling 8 crackers, half of the butter into a saucepan. Add minutes. Add the cook slowly for 5 boiling water. Let cook 20 minutes Add the milk, the rest of the butter, and salt and pepper to taste. Break the soda crackers into a dish and pour th Rice and Cheese Timbales-One boiled rice, 1 cup milk, $1 / 2$ cup grated cheese, 1 egg, 1 tablespoon butter; salt and paprika or pepper. $\dot{\text { a }}$ Heat the milk and add the rice, butter, cheese, $1 / 2$ teaspoon salt, $1 / 4$ teaspoon paprika, and cups or ramekin dishes, set in a pan of hot water and bake $1 / 2$ hour. Serve with bread sauce. To make bread sauce scald a little rich milk with a little butter and seasonis. Add fine white bread Nut Loaf.-One pint soft crumbs, butter, $1 / 2$ cup milk, salt, pepper, poultry dressing seasoning. Mix together the dry ingredients, add the milk and the
2 eggs beaten light. Form into a loaf and bake in a shallow pan about half
> n hour. Serve with thick white o


## Sweet Green Tomato Pickle.

The Ingle Nook.-Though I have never written before, I have always taken and have profited by reading every week. My method of green ton fill the steamer. Steam steadily
usual over a pot of boiling water till clear. In the meantime, I make the same mixture you suggest: vinegar, brownt sugar, (always use brown sugar for pickles), cinnamon sticks, cloves if desirec, boiled together are clear 611 into, bottles, pour over the liquid, and seal while hot.
I had two reasons for this method. My hands were full with baby and other work, and this way needed no care, as readily. It gives the pickle a cheerful bright color and flavor, while the slow,
stirring boil darkens the mixture and needs constant attention.

Ontario Co., Ont.
(You Ingle Nook readers are just
solendid, I think, You always come to splendid, I think. You always come to
the rescue. I wonder if someone will know the answer to the questions in the letter following this.-Junia .)

## Wool Mattresses.

 We have taken your paper ever since and find it very useful, as well as enter taining. Can any one tell me how many pounds of wool would be required to make an ordinary two-piece wool mat tress, and also give some suggestions as to how to oo about making it, and thequantity of covering it would need? Thanking you in advance. E. W. B.

Query Re Blankets, Etc. "J. B." kindly sends the following inIormation: "If the enquirer in the "Advo-
cate" will write to Mr. E. Eastwood, Baltimore, Ont., he will be able to tel her about the blankets and cloth, as the make both and buy wool.

## Kindergarten Course

 For "Seventeen," Lambton Co., Ont. kindergarten teachers in Toronto. Writ to the Department of Education, Parlia ment Buildings, Toronto, for all information. I think your Normal EntranceCertificate would be sufficient for enterCertificate would be sufficient for eater
ing. The salaries for kindergarten teaching. The salaries for kindergose for other public school teachers.

How to Hill Up Celery.
$\prod \begin{aligned} & \text { Y success with celery last year was } \\ & \text { so complete, and so easily attained, }\end{aligned}$ that I must tell about it. The even when I planted was kept in mind grows most in September and October and therefore need not be planted early Early planting, however, and twice trans-
planting give a large, vigorous growth of planting give a large, vigorous growth of
strong roots, from which in September and October, after the hilling-up is done new inner stalks shoot up quickly. These new stalks are the only really good part of celery. Stalks once green may be blanched, but cannot be reduced to that have which grow after hilling-up.
At the second transplanting, I set four setting the plants ten inches apart in the row, and rowing the plants as carefully crosswise as lengthwise. On September 1 Paschal celery over a foot high. Taking a piece of old floor matting, I cut it into strips as wide as the celery was high, and long enough to envelop one of the four of these strips, thus protecting four our of these strips, thus protecting thus guarded so that no soil could get at the centre of the bunches, I shoveled dirt reely from either side until I had filled matween the rows to the top of the y with my foot I removed the matting pulling it straight up, and repeated the process with other four rows, and so on until all was hilled up. This use of matting makes the hilling-up process easy plants while the dirt is placed around plants while the dirt is placed around stalks are broken. Care must be taken not to hill too high, as the tops should eft well above ground until frost
Planting four rows in a broad atrench minter where they are grown, and celery always keeps best this way if protected from frost. To protect from the first gentle frosts, a light covering of chaffy straw or leaves is sufficient. When the and cover clear over with dirt Upon the dirt place several inches of leaves. To this add six inches of chaffy straw, being careful to protect the sides of the mound as well as the top. Before the cold bedemes severe, cond it will be a severe woiler indeed if you do not have well-protected celery until March.-Suburban Life.

## Hope's Quiet Hour.

Incorruptible Apparel. Whose adorning let it not be the ou ward adorning of plaiting the hair, and of wearing jewels of gold, or of putting
on apparel; but let it be the hidden man of the heart, in the incorruptible appare of a meek and quiet spirit, which is in the sight of God of
"S think it was Emerson who said: "Since we are sure of having what we wish, let us beware only to ask for higa tists.i. If we may judge by the bargain if women's desires were centred on dresson costly apparel that soon gets shabby on costly appaed and must be replaced as cheaply as possible. I think the craze for adornment (which is not always the "modest apparel" admired by St. Pauland others) has a good weal to's natural desire to be beautiful leads her to adorn herself with "gold, or pearls, or costly array;" forgetting that real beauty is of the soul, not put on and of with perishable finery. The white robes which adorn a real king's daughter do not grow shabby or old-fashioned. They are suppied and even in the sight of the Maker of all earth's riches they are of priceless Our Lord was constantly turning men's attention away from things which appeared beautiful on the outside, but were
within-where only God could see-un. within-where only God could see-un.
clean and ugly. In one of George

## Mic Clarys <br> Male good stoves and Cooking utensils.

## Do Your Banking by R. F. D.

Make the mail your messenger ; and save yourself the long rides to town
Deposits may be made-butter and cheese cheques cashed-money withdrawn-just as easily and safely by mail as in person: Write the manager to tell you all about this convenient plan of Banking By Mail - or call in and have it explained, the next time you are town.

## THE MERCHANTS BANK

Head Office: Montroal OD, C\&NJADAA Established 1804,
 and 12 Branches in Britith Columbia, verves rural Cands moot effectivel.

WRITE OR CALL AT NEAREST BRANCH.
> "QUALITY FIRET"
> Get Foul Air Out-
> Get Fresh Air In FRESH air is still cheap. Help same for your stabled animals. Give them the continuous supply that is absolutely necessary to vigorous health, growth, and production of profits.

Equip your buildings with


## "Halitus"

## Ventilators



Scientifically constructed to give maximum exhaust under down-draught. Never any efficient, easily attached, and a handso
Made in $\mathbf{1 1}$ sizes and 5 styles, for every place where air is tobe eathausted etc. - Extensively used by Railroads and Corporations for all kinds o buildings.
Every Barn should havee "Holitus ${ }^{\prime \prime}$ to permit exit of wind and thus avoid loosening of Roofing, also to removegases and prevent sontaneous combustion
Furnished with or without Weathervane and ornamental Spire.

Send a Post Card for Leaflet
and Price Liat.
Metallic Roofing Co. imited TORONTO CANADA

## EQUAL BANKING SERVICE FOR EVERY PART of CANADA

CANADA has many and diversified business interests.
Each province and each community has its own local business problems, which are importantly related to the welfare of the Dominion.

Manyminds are working on these problems, each con-
tributing its talent to a wise solution.UR special talentsand banking serviceare being devoted whole heartedly to Canada's business developme
general and local,
$\mathbb{N}^{\mathbf{N}}$ every important business community of the Dominion we have a Branch Office.
EVERY BRANCH knows the local mans' problems, be he merchant, farmer manufacturer or worker in any line of industrygreat or small-and the officers in charge can be relied upon to co-operate in every proper way with those who ask for advice and banking service.

ALL of our service, all ofour knowledge, all of our experience attained in over a ceniury of banking,
are dedicated to the are decicared to the Canada.


## BANK OF MONTREAL

Established over 100 years
Wined sitre service maintained between Montreal, Torontos HEAD OFFICE : MONTREAL Total Assels in excess of $\$ 500,000,000$
Branch Offices in all important cities and towns throughout Canade
and Newfoundland

## A Banking Service at Your Farm Gate

Banking by mail is a great convenience to the farmer.

He has no time in his busy season to be driving to town to deposit cheques or pay his bills.

But, having a bank account with us, he can do all this by mail.

Consult the Manager

## THE DOMINION BANK

Macdonald's books for children he deMardonalds books for children he dey whe wase of feeling the inner hand of each personthe touched. Some hands, which looked shapely enough in the outside, felt like the paws of wild beasts, the climpery pigs, or were
bodies of snakes.
One of the worst characters in history was the disloyal son of David-Absalom. Yet "in all Israel there was none to he so from praised as Absal foot even to the crown of his head there was no blemish in him." No, his ugliness was of th soul. Only God could see it at first though it workes plainly visible to man. ski have just been reading the story of Ruth, which is like the moving picture of a lovely woman, clothed in the in-
corruptible apparel of a meek and quiet corruptible apparel of a meek and quiet
spirit. That lasting beauty was so spirit. That lasting beauty was
priceless in God's eyes that He caused it priceless in God's eyes that he caused
to be set like a iewel in the shining setting to be set like a jewel in the shining setting
of the deathless story, which is neither faded nor old-fashioned after thousands of years. Ruth is one of the four women mentioned in "the book of the generation of Jesus Christ.

- She turned her back on the heathen gods of her own people and put her trus in the Lord God of Israel, and her trust was fully justified.
The story is told very simply, yet it stands out in our sight as clearly as if it hearted, widowed mother-in-law cheered and cherished by a loving daughter-inlaw who was "better to her than seven cons." Naomi left her home with a husband and two sons, and came back
ten years later with no companion but ten years later with no companion but Ruth. She said bitterly: F , went out again empty"-which was hard for Ruth to hear, for she had left her home, her gods and her own mother, fully determined to love Naomi and care for her until death parted them.
I I like to think that the story of Ruth is a message from our Father, telling us how eauty of spirit. We always think of Ruth as , beautiful; but there is not a word in the story of outward comeliness. Her beauty was not so much beauty of face - that would have faded long centuries ago-but it was the kind of
beauty that lasts, which all who earnestly desire may ask for and receive. Let us look at some that incorruptible from the country of Moab. She had found the One God and turned wholeheartedyy towards His people, where
she might find the joy of spiritual fellowship. The religion of her mother-in-law had drawn her near to Jehovah. In spite of the unkind jokes about mothers-in-1aw, for Christ through the beauty of such wome see those two widows entering Bethlehem at the beginning of barley harvest. In a day or two Ruth was
rested and eager to work. She had not rested and eager to work. She had not come to be a burden to Naomi, but to
earn an honest living by hard and comearn an honest living by hard and com-
mon work. She wasted no time in lookmon work. She wasted no time in lookasked for permission to go out with other asked for permission the go out with other
women and glean in the fields. By steady industry, under the hot sun, and by
modest and courteous behavior she won the favor of the steward of Boaz and the master himself. Boaz lived in a village, and he had already heard all the kindly devoted she was to Naomi, and how her presence was already making their little "followed not young men, whether poor or rich." He spoke to her with fatherly kindness, telling her that all the neighbors knew her to be a virtuous woman.
We see the progress of that courtship. If Boaz was a true gentleman, certainy of all, Boaz tells her to glean among his maidens atl through the harvest. Then he sees that she has water and food proto treat her with respect and to let fall handfuls of grain on purpose for her. - Ruth could give up her own young life amazed to find that others were thoughtfut The story teaches us many valuable

Ruth "happened" (as we say) to "tigrit on a part of the field belonging unto Boaz.
How little she dreamed of the great result of that day's work, as she went shyly out to oin the laborers in God's harvest field. She "happened" to start $\mathrm{in}^{2}$ the field of a mighty man of wealth, and before long she was his wife. Her son was not only the grandfather. of David, but also the ancestor of David's greater Son.
Of course, I know that the genealogy in St. Matt. I is that of Joseph; but, as Jesus ${ }^{\circ}$ Christ," the mother of our Lord must have been closely related to His foster-father Joseph.
The Eternal God does not change durThe Eternal God does not change during thousands of years. As led Ruth the Moabitess, long ago, so He loves each trustful and obedient soul toNay. When Ruth went out to work tor Father of Naomi, who was her Father too. Life is a bigger thing than we know,
and little every-day "happenings" lead God's children into new and wonderful paths. Every day we go out, like Abraham, not knowwill what tand of promise our Father will bestow upon us.
Ruth thought she was only a gleaner, but she was really reaning a rich harvest. She had sown many seeds of kindness, and God is pledged to give bountiful return. She did not spoil the present and the future by mourntul brooding over her loneliness and poverty, but lived in peace under the wings of the Lord Gor "Brothers, hush! the Lord Christ's hands Ev'n now are stretched in blessing o'er Sit not tike a mourner, brother! by the grave of that dear past
He, who was the hard-working Car penter of Nazareth, is still the Comrade of working peopie. The adornment of behavior and purity of spirit, constancy and trustful ohedience can never lose power and value in the sight of God and Ruth did not dream, when she adorned herself with such shining jewels, that her incorruptible apparel would help other Did you fancy that your daily life was oo obscure to be of interest to the or of lasting use to the wortin precious ${ }^{\text {of }}$ the world was not wastail wages in Nazareth.
"The man most man, with tenderest huWan hands
Works best for man
in Nazareth,

## The Windrow

The World's Sunday School Convention will be held this year at Tokyo, Jepan The Japanese are making great prepara already chartered for the delegation from America.

The St. Paul, Minn., Public Library has been giving gramophone service since
1914 . The library now has over 600 1914. The library now has over 600 crioice records, which are loaned to schools during which they may be retained.

Princess Mele Barese, founder and resident of the Naples, Italy, Societ died recently at the are of eighty Fev in the humane world were more widely known.
Surely the world is becoming kinder A few weeks ago the United States cele which a Be Kind to Animals Week, newspapers than to more notice in the annual celelorations of the kind. The idea originated with Mr. H. F. Lewith of South Carolina. During the week various devices were used to attract people's attention, one feature being the
placing of hand-made posters, for which prizes were given, everywhere which prizes were given, everywhere. A
children's poster competition was notable feature, one of the prize posters for instance, bearing a design of a large

- Founded 1866

3 we say) to "lighit eld belonging unto amed of the great work, as she went e laborers in God's aty man of wealth, was his wife. Her the grandfather of that the genealogy of Joseph; but, as the generation or
other of our Lord ely related to His not change durAs He loved and , long ago, so He d obedient soul toent out to work for as clasped by the
"hy than we know happenings and wonderful we go out, like ing what land of ill bestow upon us. only a gleaner, but
ag a rich harvest seeds of kindness, to give bountiful spoil the present mournful brooding poverty, but lived ord Christ's hand ed in blessi the lands. ar past.
hard-working Car still the Comrad The adornment of f spirit, constancy e can never lose when she adorned ng jewels, that her
would help other would help other
ears later. your daily life was interest to the
use to the world? d was not wasting
$\qquad$

## Important Auction Sale of <br> WORLD'S RECORD STOCK TO BE HELD AT

## Waterville, Quebec, July 17 th, 1920

I purchased the herd, 40 head of cattle, that produced Plain Mary, World's Champion Jersey cow, from Kelley \& Cossar, Bangor, Me.; 16 of these, close up to the Champion cow, will be sold. Also in a car from the herd that produced Successful Queen, a number of three-quarter sisters and their sons will be sold. A number of fine bulls, cows and heifers of Sophie Tormentor stock and other strains will be sold. A total of 58 . All enquiries will be answered and catalogues will be promptly sent to anyone interested.

Sales Manager, THOMAS IRVING, Ottawa, Ont.

## F. G. GALE, Proprietor

Waterville, Quebec
inscription "Don't stone us, boys. We
prevent disease." All such demonstraprevent disease." All such demonstra-
tions help to make people think, and many of them need to think so far as petition might do equal good in Canada.

## Current Events

Premier Drury opened the Soldiers'<br>Premier Drury opened the Soldiers' Memorial Park at Dundalk, Ont.

The medical profession is deeply
nterested in a serum discovered by Dr interested in a serum discovered by Dr. it to be a specific cure for cancer.

The streets about St. Jarmes Cathedral, Toronto, were thronged all last week by
sufferers crowding to be cured by the

Anglican Faith Healer, James Moore
Hickson. Mr. Hickson does not claim that the cures will be instantaneous.

A deadly war against grasshoppers is being waged by the Saskatchewan Government in co-operation with the municipalities. Bran mixed with a little
molasses and arsenic or other poison is molasses and arsen
being used as bait.

Sir Hubert Ames, of Montreal, Financial Director of the League of Nations, with headquarters at Geneva
Switz., declared in the Commons at Ottawa last week that, the League is now a working reality. As far as it is concerned, he-said, secret treaties are at an end; also much has been done toward securing general reduction of armaments, and next year that will probably be the

I James Murdock, Labor representative on the Commission of the Board of Com merce, resigned his position in protest, against the Government's failure to appoint a Chief Commissioner and other members in place of those who resigned, Commission to accomplish results against combines to accomplish results agains at Ottawa with interfering with the work of the Board and favoring the big interests.

Miss Laura Durand, with the approval of the Provincial Government of Ontario, has distributed posters and liferature on Halton and Wentworth Counties: also she has addressed the schools. A Junior Birdlovers' Club is to be instituted in Dundas.
Premier Lloyd-George stated that the
Government intends to undertake reform of the House of Lords during the present
Parliament.

After a week of civil warfare in London derry, peace now reigns and, at time of soing to press, a peace conference is in session. There are indications, however, that the whole Irish railway system may be paralyzed by a strike.

Japan has asked to be permitted to participate in the economic conferences now going on in London with Krassin, the Bolshevik ehvoy from the Soviet Government of Russia,

Passing a swimming pool in a small city one day two women read this bign at the entrance: ${ }^{*} 25,000 \mathrm{Gals}$. In and Out " Every Hour." "That's all nonsense," said one of the women. "There ain't that many women in this
whole country."

## The $\mathrm{D}_{\text {ryden }}$ - Miller Sale of Imported Shorthorns

CANADA'S PREMIER SALE OF ALL TIME 120 Lots-To be Sold in Four Hours

120 LOTS ©s cows with culvesit foot 65 Cows with calves at foot

LOTS

## AT MAPLESHADE FARM

## Brooklin, Ontario, Wednesday, July 21 st, 1920

## Positively the Greatest Aggregation of Breeding Females Ever Sold in One Sale Ring on this Side of the Water:

TRAIN ACCOMMODATION! A special G.T.R. train will leave the Union Station, Toronto, about 9 a.m., immediately after the arrival of all important morning trains from West and Southern points, and will proceed by way of Whitby Jct. to May of Whiteshade Farm Crossing, returning to Toronto after the close of sale.

TOR this sale of imported Scotch cattle, Messrs. Dryden \& Miller have selected in the Old Land, not only choice cattle of popular strains, but have also chosen cattle that, in every Land, not only chote cattle of popular strains, but have also chosen cattie that, in every
case, showed evidence of being females that would prove profitable from a purely breeding standpoint. Individually, the offering may be said to be of exceptional merit throughout, and in their guarantee they have gone just one step further than that given in any other public sale so far held in Canada-in that every animal, regardless of age, is guaranteed a breeder. All, too, have successfully passed the Federal test for tuberculosis, and the buyer will be given the privilege of a sixty-day retest in every case. These are the guarantees on which the offering will be sold, and purchasers on July 21st may well feel that the protection afforded them is more liberal than they have so far experienced in any Canadian sale ring.

Further particulars regarding individuality and breeding of the offering will be presented in these columns in the issues of July 8th and 15th.

July Twenty-first Will Be a Day of Profit if Spent at Mapleshade

JOHN MILLER, JR
W. A. DRYDEN

W, A. DRYDEN, Mapleshade Farm, BROOKLIN, ONT.
CARRY M. Jones
"cscot TiE. R. RoBSon


| Better Bull Bulletin |
| :---: |
| No. 5 |
| Ontario Cattle Breeders' |
| Assoclation |
| Toronto. Ontatio |

## What a Good Bull Did For One Herd

This herd was owned by a womati. In 1905 the herd consisted of 12 cows
of nondescript breeding with no improve That year she received the following
cheque $(\$ 438.28)$ for the sale of milk for the year:-


Which cheque do you receive?

## Use Better Bulls <br> Tractor for Sale <br> 

Such Men Still Live. This delightful little story we take fron
the A mimals' Guardian land: Animals Guardian, London, Eng E In a very ordinary hawker of rugs. His car
was commonplace, his horse work and possessing only one sound
morning
tax seemed a long way off. Not super good setting for a fairy act.
From a turning came an old man whic asked to be shown "something nice and
warm." The goods were spread out for
his in warm,
his inspection but he was dificult to to
please please. II want something better," he
said there's the very thing
thick, white fleece rug-quite the bes you've got How much? And h pointed to the superior article, which was
draped over the loins of the hose Iraped over the loins of the horse,
"Nothing doing!" was the reply;
"Co ared the old man.
hat there rug's the special propert old 'wall-eye Jim', the horse. Had it long before the war, he did, Keeps him
warm on cold days. It's just been warm on cold days. It's just been
cleaned for him to wear this winter. He's me if I sold that -would you, mate? until his sound eye came into play and with it, tried to express assent have this one, "mister. Its its the next "yest
sere
The old man took the ruge pressed a
65 note into the seller's band, and no
65 note into the seller's hand, and no
waiting for the change, vanished.
the emipty street the hawker sal Blimyl" four times. Then he buried carment of "wall-eye Iim", the winted the bridle and started for home. "Come on,
mate," he said. "You come and lie down in your stable and think it over.

A Plucky Robin Redbreast As I happened to galance from the window
My attention was duly arrested; For there was a rollicking robin so gay,
So plump, and so jolly, red breasted

A-tugging and pulling with might and
a string that was tangled and twisted,
Stuck fast in the ground; not an inch did
twas wonderful how he persisted.
1 could not but laugh at the brave little
o determined, and so sure of winning Ah! he heard me! then up went his wing And a a flay th

## o doubt he ret

No doubt he returmed to tackle and test
That tough proposition before ince the high cost of building him; Shife's nest Shows true courage, 1 really adore him
Moral; If your objective is good and worthy, do not give up although laughed to rateater endeavor.
o great
$\qquad$ Jean Knox.

The Ghildren's Poem.
The Zebra
"Now what is this? Who here can tell?" The teacher asked her youthful class, Each puzzled little lad and lass

Seemed much perplexed. Was it a horse? No, never horse was striped like that
colt? A mule? Up went a hand A. colt? A mule? Up went a hand
From one small chap who always sat

The lowest down along the row-
Her dullest boy, the teacher said. Her dullest boy, the teacher said. Then Johnny smiled, and scratched his

Oh, yes, I know; you can't fool me,"
He said as he eyed the curious brut With stripes he eyed the stripes galo

## They Saw Results

## previous advertisements we made a special offer to interested farmers

## SYDNEY BASIC SLAG

## We offered to pay all theil traveling expenses to go and view fields of

 wheat now growing, talk with these growers and then decide for themcase were so thoroughly satisfied with what they saw that they ordered carlots to be shipped them immediately. In some cases the entire field had been given an application or BASICSICAG, others had portions of the fields without it, and in some cases BASIC SLAG was used on a portion three times the money. Could anything be more convincing? good. They may offer you a sub stitute, but there is no such thing. Insist on gettingSYDNEY BASIC SLAG FERTILIZER
The Cross Fertilizer Co., Ltd., Sydney, N.S.
A. L. SMITH, 220 Alfred Street, KINGSTON, ONT.


## heading, such as Furm Propertices, Help Situations iwa and

 THEMMS - rive cents per. word each insertionFach initial counts for one word and figures f
two words Names and addresses are counted
Cish must always accompany the order.

## AGRICUETURE STUDENT, THIRD YEAR

AGRICULTURE STUDENT, THIRD YEAR
deaires poition on first-clas live stock farm
during the summer. Has had seven years. experi-
durise the poition on first-class ive stock Hasm
ence. Philip Ross-Ross, IJancaster, years. experi-
ence.

FIRST-CLASS GRAIN AND DAIRY FARM
 station, three miles from City Dairy, two miles from
 Congst of good story and half frame house, with
'hard and sof water and furnace large frame wath
on stone foundation with good stablling, unidel on stone foundation with good stabling, under
reath-water supplied to stables, with windmill
ilo.
 of the beet farms in the township of Weat Zorra.
Apply to Boz 2t, Embro, Ont. GOATS - STOCK BREEDERS' CHEAP IN-
SURANCE, No abortion. No distemper
there buck runs with herd. Prices ten and
fiteen dollare fifeen dollars. Also miliding does, Glenarden HAVE A FEW CHOICE FARMS FOR SALE
from 18 to 290 acre; Maclualve, in the best
stock-raising section in Ontorion stock-raising section in Ontaria: Details gladis
given. Colthatt's Real Estate O.fice. Fergue, Ont.
PURE-BRED SCOTCH PURE-BRED SCOTCH COLLIE PUPPIES
intellient and good companion. Eight dollar each, females only: Applyi vfroe Creeman, Net
Hamburs. Ont. WANTED-PROBATONERS ROR TRAINING
School, Nlagara Falls General Hospital. Thre
vears course years course. Apply to Superintendent.
 WANTED-FARM TEAMSTERS TO WORK on our fut farms; must be able to plough and
have good knowledge of horses.
rin $i n d$ or ried if have family who will work in our fruit pre-
servin factory. Wages paid and
Winona, Ont.

## POULTRY CEGGS <br> 

 under this heading at five cents per wo insertedinsertion. Each initiol counts for one word and
figures for two words.
counted. Cash must alwes and adresses are counted, Cash must always and addresses are
order for any advertisement under thpany the Parties having good pure-bred pountrys heading and eggo
for sale will find plenty of customers by using or advertising columns. No advertisement inserted
for less than 75 cents. BABY CHICKS, HATCHING EGGS-BARRED
Rocks, White Rocks, White Wyandottes, Silver Wyandottes, White Leghorns, Rhande Istand Sille
Ineds.
Incubator capacity 9,000 . Satisfaction uavanter Write for price-list. Tay Poultry Farm, Perth,
Ont., Box 244.

## Oultry Manted- -We have a special

## 25 CENTS

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$=-=-2=2$
albert lewis
Toronto, Ontaric
FOR SALE

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## Markets

Chicago.
Cattle--Compared with a week ago medium to best fat cove and heil 25c. to 75c. highere zood Bologna and fal bulls strong and 25c. higher; canners
citters and common tight buls and
tockers colves, 50c. to 75 co . lower.
 $\$ 14.30$ to $\$ 15.80$; pige steady; bulk $\$ 13$ Sheep.-Top native lambe, s17, com-


## Cheese Markets.

## 

 curent make, whitite and colored, special State, whole milke twing, current make specials, 20 e. to 27 .c.; average run, $251 / \mathrm{c}$,
State, whole milk, wiws, held, white and


## Victory/Bonds.

Fonds on the Toronto market, Satutury 88 to 99; Victory Bond matarnat 1222
 $981 / 2$ to $991 /$. Victory Bonds maturing
1937,100 to i01.

In another column of this issue atten Eorn sale to be held mer-Dryden stiont Brooklin, be held at Mr. Dryden's farm mentioned. The advertisement in thi the gives a few particulars regardin issues of July 8 and 15 for fuller particu
lars. Keep this dater are over one hundred imported Shorthorns


If it isn't an Eastman, it isn't a Kodak

CANADIAN KODAK CO., Limited

Toronto, Canada

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ANGEROUS as well as painful
$\qquad$

## ABSOREINE

Will reduce Inflamed, Strained Swollen Tendons, Ligaments, or Muscles. Stops the lamenessand pain from a Splint, Side Bone of Bone Spavin. No blister, no hair gone and horse can be used. $\$ 2.50 \mathrm{a}$ ottle at druggists or delivered. Describe your case for special instrucABSORBINE, JR., the antiseptic liniment for Torn Liga-
 $\$ 1.25$ s bortic at dolers or dellivered, Hook "Evidence" free.
W.F. YoUNG, Inc., 258 Lymans Blidg., Montreal. Can.

| GATIONAL DARYY COURCIL OF CAMADA <br> This Council has saved the mill producers of Canada hundreds of thousands of dollars in preventing shipping rated <br> milk and cream from octrg lucrease.o. it wants to edveate the consuning <br> Public to appreclate the food and the economic value of milk and it product Increat the thome market. <br> The Council anks every dairy farmer in <br> Canada to help it by givins 50 centa towards lts funds. <br> With the patron's congent this 50 centh <br> payments by the Concern to which he <br> payymentis mils or cream, and will be sent <br> by that Concern to the Councli. <br> spomote the great dairy interests of Cunada. <br> E. H. STONEHOUSE, <br> BJACY SCOTT. <br> Weston, Ontarto <br> Sec.-Treas. |
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## Homes Are Desired

## BRITISH

ORPHAN CHILDREN
5 years old and upwards. For further
particulars apply giving references to
BRIGADIER J. SOUTHALL
The Salvation Army
16 Albert St.
Toronto


Messrs. A. J. Hickman \& Co.
Halse Grange - Brackley, England Exporters of all Breds
 FOR SALE- -REGIITTEREDPIPERCHERON

 Farmer Sinks-"I can't find any old
clothes for the scarecrow," clothes for the s.arecrow.
His Wife.
"Use things the girls brought horee from
Trarmer Jinks-""Y'm trying to scar
crows- not make 'em laugh themselves to crows-.'not make 'em laugh themselves to
death."

Questions and Answers. 19t-Oustions aked by, bomeside aubecriber



 Tie etactory revie camot be given to urgent vectimer

## Miscollaneous.

## Hiring by the Year

have put in about six months, and was to have put in about svery month. Could I quit on one month's notice? Is my boss compelled to pay me all my money when
Lleave? I leave?
Ans.-A man may quit on a month's notice, but the boss could not be compelled to pay in full until the year was up. A man hired by the year who quits
at this season puts. his employer at a at this season puts his employer higher
disadvantage, as undoubtedly hight disadvantage, as undoubtedy
wages would have to be paid during wages would have to be paid during
haying and harvest than at other seasons.

## Veterinary.

Fatality in Horse.
Horse had swollen tongue, could not eat, drink or swallow, and he died in a
few days. Is this contagious? F. I. C Ans.-The tongue became injured in some way, either by an accident or some
irritant in food or medicine. It is not irritant in lood or tongue hung out of the mouth it should have been returned and the mouth lept shut by strapping the anterior part of jaws together. The strap should have been removed 3 or 4
times daily to allow him to drink, and times daily to allow him to drink, and
eat if he would, and the tongue dressed with a cooling astringent lotion, as a solution of alum $1 / 20 z$, to a pint of water, or vinegar. In such cases, if the tongue be allowed to hang, it soon becomes paralyzed, and then the animal cannot
swallow, hencecan neithereatordrink.

## Gossip.

The Ontario Duroc Jersey Breeders
Association of Association of Essex are planning on
holding a sale of Durocs at Essex, on Saturday, July 31. For particulars regarding the sale see advertisement in an early issue of "The-Farmer's Advocate" and write the Secretary of the Duroc
Jersey Breeders' Association, Essex, for Jersey Breeder
a catalogue.
The Central Canada Exhibition Association are enlarging their buildings
and making preparation for their annual fall show. The Machinery Hall is especially being enlarged. There should be ample floor space-for showing to ad-
vantage the numerous kinds of machines, whether stationary or in motion. This is the largest exhitition in Eastern Canada, and the directon are endeavoring to
make the 1920 show the best ever held.

Miller-Dryden Shorthorns.
. Dryden sale of imported Shorthorns, to be held at Toronto on July 21. There are 120 head to be disposed of to the
highest bidder. The sale held by these highest bidder. The sale held
two breeders in February was a splendid two brees, and, considering the quality of the present offering, the sale average. Plan on
reach even a higher an
bit being in Aorento on artunity of securing
will be a splendid oppord
herd sires and foundation stock with quality and that are richly bred. For
fuller particulars regarding the sale, see fuller particulars regarding the sale, see
the advertisement in an, early issue of
the "The Farmer's Advocate," and write Mr.
Dryden, Brooklin, for a catalogue. A few years ago King George presented Thoroughbred stock, that noted sire
Anmer. This horse has won on different occasions in England, and his sire,
Florizel 2nd, was a winner of the Ascot Gold Vase, the Jockey Club Cup and the
Manchester Cup. His dam is also the winner of many prizes. For several
seasons Anmer has been in the vicinity
of alaville and Toronto, where he has of Oakville and Toronto, where he has
left an exceptional lot of fine colts. For this season he is stationed at Jas. Mc-
Farlane's farm, Ailsa Craig. This will give breeders of Thoroughbreds through-
out Western Ontario a splendid oppor-

## 

(6) ait MoneySavers Farmand Home

You'll have a hard time finding products that will give you the same sure satisfaction as the three prociucts briefly described below.

## Everjet Elastic Carbon Paint

 If you are to get the full value out of farm implements, metal roofs and other exposed metal, keep them from rusting away. Everjet Carbon Paint positively prevents rust. It gives a lustrous, black, durable finish that is proof against moisture, acids and alkalies. Put up in 1,5 and 10 gallon cans, $1 / 2$ barrels and barrels.Everlastic "Rubber" Roofing
When you use Everlastic
"Rubber"-Roofing you are sure of years of roof service.
More of this roofing is

used by Canadian farmers
and factory owners than any other brand of ready roofing, because it gives the biggest value for the money.

Why take chances? Insist on Everlastic "Rubber" Roofing and be sure of your money's worth. Comes in rolls of 108 square feet. Nails and cement packed with each roll.


## Everlastic Liquid Roofing Cement

The greatest roof-repair material ever made. It adds years of extra service to worn-out "rubber" and prepared roofings. It is easy to apply, stops up all the small leaks and dries quickly into a smooth, lustrous surface that is waterproof, weatherproof and wonderfully durable

Everlastic Liquid Roofing Cement comes all ready for use in packages ranging from 1 pint tins to barrels of about 600 lbs .

If your hardware dealer or general store cannot supply.

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## IVDPERTAL EAPRNETS




 Sold by the Hornces. Trade throughout the Dominion. If your dender will not
get Imperiel Harncos for you, write dircect to us for Catalogue and pricos. SAMUEL TREES \& CO., LIMITED. Established 1866. ,
Manufacturers of Harness and Dealers in Automobile Accenerien 42 WELLINGTON ST. EAST, TORONTO

## NORTHERN ONTARIO

 Home awaits you. For full particulars as to terms, regulations, and settlers' rates, write H. A. MADONNELL, hon. MANNING DOHERTY Minister of Agricultur

## VERS OME



## Massey-Harris



The Features that Give Superiority to the Massey-Harris Cream Separator THE Superiority of the Massey-Hanis Cream Separator consists in getting more of the cream at all temperatures than is usually the case, and in getting a better cream, for it gets the very fine globules which are so rich in butter fat, and which produce butter with a better flavor and keeping qualities. The features "which make this possible are the improved Split Wing with its Six V-shaped openings which spread the whole milk uniformily over each and every disc, thus utilizing the entire skimming area: the large skimming area, and the absence of conflicting currents of skim and cream once separated.

Send for our Special Cream Separator Folder.
MASSEY-HARRIS CO. Limited Head Office: Toronto, Ont.
AGENCIES EVERYWHERE


## Extra Hours of Daylight



BURRELL
B-L-K
MILKER

Good for the
herd

Think what you could do with another extra working Chour each morning and evening, How you could make the whole farm jump.

With hand milking you have all hands at milking morning and evening.

With the Burrell Milkers you have one man doing the work of three men in the same time. That saving in labor means extra hours of daylight on your farm.

This saving in labor alone pays for the Burrell outfit in less than a year.
Many dairymen who found hand-mitking unprofitable and intended selling the herd have used Burrell's and then increased the herd.

Send for free illustrated booklet explaining all the adventages and proving them by big and little.
D. Derbyshire Co. Limifed BROCKVILLE - ONTARIO

## SHIRE BREEDING

Should Be Popular
Shires excel all other breeds in size and conformation. Size has never been sacrificed to quality, but quality is always kept in view, and Shires embody the best combination of these two most important features among the heavy breeds.

Shires have the best possible conformation for heavy draft work, their shoulders being ideal for this purpose. In addition to conformation, they have the riecessary weight to enable them to move heavy loads with mininum effort.
G. de W. GREEN Mat. Sec.-Trohaurer.

58 Grenville St-, Toronto

## Aberdeen - Angus


Shropshire and Southdown Sheep

Inspection inviled, satisfaction asswred.
Larkin Farms - Queenston, Ont.

## SUNNY AGRES

## Aberdeen - Angus

## Prenent offerlige A few yo

G. C. CHANNON, - Oakwood, Ont. Telephone-Oakwood. Railway-Lindsay.
G.T. R. and C. P. R.

## Aberdeen - Angus

Meadowdale Farm
Fores, Onlario
Alonzo Mathews
H. Fraloigh

Balmedie Aberdeen-Angus
Nine extra good young bulls for sale. Als
THOS. B. BROADPOOT, FERGUS, ONT.

## English Dual Purpose <br> Shorthorns



 Afifo Englibh Large Black Rigs. LYNNORE STOCK FARM


## Mardella

Dual-Purpose Shorthorms

 Great producers. ${ }^{\text {THOMAS GRAMAM, R. 3, Port Perry, Ont }}$ Scotch Shorthorns - Mard headed byy Mater Gainf ord Marguis. stea.

The Old Dog. Editor "Thie Farmer's Advocate Time was when Rover full of the pride up, tail at a saucy angle, ever alert for some excuse to blow off his surplus energy. His flying form was here, there, and everywhere: cats under full sail prayed fervently that it wouldn't be long, before they hit a tree; prize "roosters", with outstretched neck and wings, made
records sprints for any old port in a storm, while low flying crows looked down wonderingly at the insane, leaping, yelping creature that kept pace with them as far as the line fence; and the cows, morning and evening, at the first eager yelp, knew at once haat it was case of every cow for herself for they knew by sad experience what happenee
hindmost. Time the relentless, hower, is no respector of dome Slowly but surely, he pursues; and now that fine head is carried low weighted down by the sweets and bitters of many years; his steps are stifi and uncertain-young Rover has become the "Old $\mathrm{Dog}^{\prime}$ and the pup his sucoessor, takes full and unfain
advantage of the fact that the once bright eyes are almost sightless.
As the old fellow lies basking in the the sun the pup comes stepping jauntily he pauses, cocks his head to one side with a knowing mischievous air, and then, pouncing, he fills the air with yelps of delight as he worries and torments his victim who can do little but snarl in helpless rage.
There's that pup again, Dad, exclaimed mother one day in the kitchen, as sounds
of the one sided conflict arose. He's or the one sided confict arose, ${ }^{\text {He }}$ 'is
forever at it now. Its a shame, so the way he torments that poor old dog? He needs a good whacking
Can't keep the young beggar off him replied dad. Guess we'll have to get rid of Rover; the pup's coming on an' two dogs is one too many to feed nowadays. -What d'ye think?
In a way I s'pose it would be a kindness to end his misery-but I hate the thought dad. He's been so faithful, an it would Oh ehela! mother Oh shucks! mother, he's got to go sooner or later same as you an' me an
what odds if its a little sooner. or so in front of the gun'll do the trick an' he'll never know what struck him. I've been thinkin' $o^{\prime}$ doin' it for quite a while-guess I'll do it right away, the 'sessor 'll be around soon.
Just as you like, Dad, said mother: if you have the heart to do it.
Have the heart to do it? Oh pshaw, mother! Where's the cartridges? Any left? One? Oh well that'll be enough. It don't seem right, muttered mothier,
as dad, gun in hand went out. An as dad, gun in hand went out. blood run cold.
Meanwhile, full of his grim purpose, a peep through the gun barrel to see is "she was clean." Satisfied, he inserted the cartridge, closed the breech with a
business like snap, and looked abroad business like snap, and looked abroad questioningly for his intended victim.
Wonder where the old begar is? grumbled dad. I'll bet if I didn't want from behind touched his hand coll looked down, to find a pair of wistful eyes peering up at him. A tail waggedgentle greeting, and the cold nose con-
fidingly muzzled his liand anew, seeking for a caress. A harsh voice-surely it couldn't be Dad's-grated out: You
old fool you! Git out! and the old do unaware of the sudden turmoil in Dad's bold heart, shrank coweringly away. int the house mother sat listening at the clock, what a time its taking him aybe- light of hope shone in her eyes
mawhen it comes to the actual shooting -when it comes to the actual shooting Mother's heart skipped a beat or so and then she rushed to the window just
in time to see a thin blue cloud of smoke in time to see a thin bue cloud of smoke
drift idly past the far corner of the barn: He did do it after all! she cried, tearfully
I didn't think he-It was just real mean of you, dad! Even if he was useless and
old he'd earnedWell, Lan' sakes!
From behind the barn came a man in front of whom an old dog padded slowly. From somewhere a pup rushed
out, leaped, and bore the old dog down.
A booted foot shot Ahore it was intended, and a surprised


## Are Soundly Economical for Every-day Wear

$T$ HESE cool, comfortable, sturdy shoes aire a worth-while economy for summer wear. You can have several pairs for the price of one pair of leather shoes-colored Fleet Foot for work in the fields and about the barn-white ones when work is over.
Wear Fleet Foot yourself-put the whole family in Fleet Foot. There are styles for everyone-men, women and children. The genuine Fleet Foot shoes have the name "Fleet Foot" stamped on them.


Fleet Foot Shoes are. Dominion Rubber System Products

The Best Shoe Stores
Sell Fleet Foot

## Reyburn-Milking Shorthorns

## 

R. R. WHEATON

THORNDALE, ONTARIO

## DUAL-PURPOSE SHORTHORNS

Herd headed by Dominator 10622, whose two nearest dams averape 12,112 pounds of milk in a yea
Buls from 1 to 6 moinths old for sale, also a cow or two. Inspection of herd solicited. WELDWOOD FARM Farmer's Advocate LONDON, ONT MILKING SHORTHORNS Young stock from $R_{\text {i. . . P. P. cows by importe }}$ BERKSHIRE PIGS Choicely bred sows and boars, all azee. Can supply pairs. J. B. PEARSON, Manager - Credit Grange Farm - Meadowvale, Ont

HILLVIEW DUAL-PURPOSE SHORTHORNS



## SHORTHORNS-CLYDESDALES

Just one bull left, 9 months old, sire, Lochiel (imp).) dam on the R.O.P. Pure Scotch. Stallion colt,
sired by Barnats.Stamo
Fillies rising, 2, , 4,4 and 5 -year-old. Come, see, and be satisfied.
$\qquad$
 brother aleo, an extra well-bred Rosewood and others. Write for particular., Drumbo, Ont. 20 Bulls-SPRUCE LAWN-100 Females -Clydesdales, Shorthorns, Yorkshires. Herd a Rubyhill, bred by Earl of Northbroke, by Ascott Challenger, bred by L . De Rothchild. Special
bargains in farmers bouls. Cows and heifers in call. yearling and heifer calles. Yorkshires either sex Scotch Shorthorn Bulls and Females ${ }^{-1}$ have a nice offering of Scotch young bulls still on hand. The pedigrees are choice, the individuality is good-and the prices are
right. If you want one Shorthorn female or a carload. come to Markdale. Shorthorn Bulls and Females ${ }^{- \text {Herd }}$ - headed by Ruby Marquis, a a son of calves now coming are an by this sire. We are also offering a few females in calf to him. Get o
prices before buying elsewhere.


## Which Does Lour Wifiede and Dosanta?

GIVE her this convenience which you would Or demand if you had the house work to handle.

Contrast the labour saving implements, tools and equipment you use daily around the barn and in the fields with the necessities she has been denied.' This

## 

will modernize your home and give you city conveniences-running hot or cold water anywhere throughout the house, with a bath and toilet and water in the barn and paddock for the stock.

You need these conveniences to-day when help in scarce and both your wife and yourself are overworked.

Empire Systems are powerful and compact. They are very reasonable in price and made in different sizes to suit the needs of your own farm.

Our free booklet would interest you as it is well illustrated and describes our water systems fully. Write us to-day and we will enclose an Information Blank, for you to fill out.. We in return will send you full particulars and the cost of a system suited to the needs of your farm.

The Empire Manufacturing Con, Ltd.
Head Office and Factory, London, Ontario.
Branch Office and Warehouse,
110 Adelaido Street West, Toronto, Ont.

Maple Shade

## SHORTHORNS

A dozen young bulls imported and my own breeding at moderate prices.
W. A. DRYDEN

Brooklin

## SHORTHORNS

Preant offering: Six youne bulls, Reds and
Roons, also n number of females. They have
Then Roans, nisity number of temales, vod ey have CHAS, GRAHAM

## Burnbrae Shorthorns shighty-three year without change, we heve been breading soutch       ROBERT MILLER <br> Stouffille, Ont.

## 40 SCOTCH SHORTHORNS

arrived home Dec. 17 th. . From our herd of 125 head we can offer a large eclection
in cholcely-bred buils and females. Anyone in need of foundation tock may
in cholcely-bred buils and females, Anyone in need or foundation stock may
J. A. \& H. M. PETTIT FREEMAN, ONTARIO

SPRUCE GLEN SHORTHORNS
We have a few choice, well brod, thick, deep tevel, mellow young bulls of breding ase for sale; also JAMES MaPHERSON \& SONS Duildll, Oneario
Imported Scotch Shorthorns For Silo-Three imported bulle, one yearling


PUSLINCH PLAINS SHORTHORNS
Five bulls for sale by Burnbrae Sultan $\mathbf{- 8 0 3 2 5 -}$
A. G. AULD
R. R. 2,

GUELPH, ONT.
BLAIRGOWRIE SHORTHORNS 5 Imported bulls. 10 Imported femalee in calf or calf by side $\qquad$ ASHBURN, ONT. JNO. MILLER Scotch bred c.own with calver
(Myrte C.P.R. and G.T.R. Pear Lawn Shorthorns, Hacknoys and Yorlahireo-One imported in dam Mise Ramsden one Golden Rose bull, 6 months, imp. sire and dam; one bull, a Fhittery, 12 month, itp. Aire, A
 Newcaste Herd of Shorthorns and Tamworths for Sale - Three nice bulle, 11 to 13 monthe
 farrize winning stoct,
pong-distance Phone.
A. A. CoLwILL, R.R. No. 2, Newcastle.

## The Salem Herd of Scotch Shorthorns

## HERD HEADED BY GAINRORD, MARQUIS, CANADA'S PREMIER S

at Toronto end other lurze exhthitions thain those of any other
J. A. WATT,

Elora, Ontario

## Braeburn Scotch Shorthorns

150 Head
100 Breeding Females
 other
breedine come in in calt to Toro of Cluny (IImp.). breeding cows in calr to Nero of Clung (Imp.). CHARLES MoINTYRE, Scotland, Ontario

WILLOW BANK STOCK FARM Established
 JAMES DOUGulas, and females to offer. Write for Information or come and see CALEDONIA, O

## WALNUT GROVE SCOTCH SHORTHORNS


DUNCAN BROWN \& SONS, Sheddon, Ont., P.M., M.C.R.
Cedar Dale Scelch Shortharns -Tloaing Catelo and Ploasing Podigroes. Smior Sire, Excel-


## BRAMPTON JERSEYS

THE LARGEST JERSEY HERD IN THE BRITISH EMPIRE
At Toronto Exhibition, 1919, we won twenty-five of twenty-seven first prizee owe now have for sale
first-prize young buli from R. O . P . dami, as well as female of all agee.
B. H. BULL \& SONS

Brampton, Ontario
ALL BULLS OF SERVICEABLE AGE SOLD for A few young bulle dired by Financlal Ralelgh King. on of the $80,000.00$ Financlal Beauty King JKs. BAGG \& SoNs, (Woodbridse, c.P.R., Coneord, C.T.R.)

EDGELEY, ont.
Laurentian Producing Jerseys-The olaert bull we have at prese








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Scientifically Prepared Vaccimes Blackleg Vaccine (Blacklegoids)
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Blackleg Aggressin (EERM-FREE BLACKLEE VMCCME)

## Blackleg Filtrate

(GERM-FREE BLACRIEE VACCNIE) An aggressin mado from cultures. WMIE FOR FAEE INSTRUCTVE BOONLETS OM BLICKLEGAMD ITS PREVEMIIOM.
Inlmar industry Department of
PARKE, DAVIS \& CO. WALKERYILE, ONT.
 1 CO LIC

## Cream Wanted

Ship your cream to us. We pay all express charges. We supply cans. We remit daily. We guarantee highest market price.

ONTARIO CREAMERIES LONDON Limited ONTARIO

[^2]pup fled in yelping precipitation while and caresses sought to make amends to helpless age
mother's face: "After all his brave words," she murmured
In a little whil dad strode in stoo the gun in a corne and sank There came a scratching and a whine at the door and he looked up to meet mother's questioning eyes fixed upon
him: Blame the luck, Mother! he blurted out, the old beggar wouldn't 'stand still an'-an' I missed.
York County, Ont. Hired Man.

Questions and Answers. Miscellaneous.

Sweet Clover.
Will sweet clover seed from the first
crop? J.J.R.
Ans.-Sweet clover will not seed the season seed will form on the the following or the first crop may be cut for hay and the second crop allowed to mature for seed.

## Hens Dying

A number of my hens are dying. On opening them I find the liver very soft. They are well fed and looked after
What is the trouble?
C. H. Ans.-From the symptoms given it is rather difficult to diagnose the case Quite a number of birds are lost from are: going light in weight of which are: going rigit and werght, having an ness. On examining the liver of an affected bird, white, cheesy spots, varying in size, will be found. Nothing can be done for this trouble and every care should be taken to prevent healthy birds from becoming infected

Learning to Be an Engineer. Is it possible to become an engineer What books would be required? What length of time would be required before receiving a certificate?
Ans.- A person might take a cor-
respondence course and acquire respondence course and acquire a good
deal of information. The school which deal of information. The school which
you took the work from would advise you took the work from would advise time required to get a certificate would depend upon the adaptability of the student to the work. Along with the theoretical in engineering a person required a good deal of the practical in order to become efficient

## Acreage in Grain.

Docording to figures issued by the area estimated to be sown to wheat in Canada for 1920 is $16,921,000$ acres, or a decrease of $2,205,000$ acres as com-
pared with 1919. The area sown to oats shows an increase of 235,000 acres; barley, rye peas, and mixed grains all portion of the Dominion the condition of the crops at the end of May was reported to be equal to or slightly better

## Ayrshire Herd Book

 The Canadian Ayrshire Breeders' As-ociation, organized in 1870, have recently issued Volume 19 of their Herd Book. This contains pedigrees numbering from 61996 to 67020 . Besides the pedigrees, it contains a good deal of information which should be of interest and value to all by-laws are given, together with and eport of the last annual meeting, printed

Volume Five of Angus Herd Book
Angus Herd Book is off the press. It is neatly bound volume of 700 pages, containing pedigrees of bulls and cows from 13001 to 20869. A full list of together with the constitution and by


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## Hamilton House Holstein Sires

Our young bulls of serviceable age have all been sold but we have a number of the
best $y$ oung calves we have ever bred. Al are from dams with good combination records for both milk and butter. Several are up to 700 libs. of milk and 31 lbs. o
butter for 7 days. If you are interested in a good calf, write or see them now-the butter for 7 days. If you are interested in a good calf; write or see them now-the
can be purchased at considerably less than we will be priclng them next winter.
D. B. tracr
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Senior sire is from one of the best sons of King Segis Alcartra Spofford. Junior is grandson
of the hoted May Echo Sylvia. by Champion Echo Sylvia Pontiac.
Write to the Superintendent for prices, etc,

## Raymondale Holstein-Friesians

A herd sire of our breeding will improve your herd. We have sons of our pres-
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also sons of our former sire, Avondale Pontiac Echo. Several of these are o
prices are lower than anywhere else on the continent. Their youngetere
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Eired by present herd wire, which is a
E.
$\qquad$
$\qquad$ Oak Park Farm $\qquad$ by present herd sire,
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Evergreen Stock Farm Registered Helsteins A. E. HULET
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 Cle R. M. Hotist, Manchaster C.T.R., Myrrle C.P.R., PORT PERRY, ONT

 Two Young Holstein Herd Sires ${ }^{-1}$ have only two young bulls of serviceable age left-bot


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MA1DSTONE, Kent, on October 15th, 1920 a MAIDSTONE, Kent, on October 15th, 1920.
Descriptive pamphlet, list of breeders and all
information from: infermatiptive pamphet, $\begin{aligned} & \text { isom: } \\ & \text { in Manover Square, }\end{aligned}=$. A. BALL.
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## RAPLA STOCK FARM

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Yearling rams for flock headers. Yearling ewes and breeding ewes in car lots. Chas. J. Shore, - Clenworth, Ont Two shorthorn bulls. Twe lambs sired by hilin.

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lambs, by our Toronto and Ottawa champions, and out of Toronto, , ondon and Guelph winners.
W. E. Wright \& Son, Glanworth, Ont. Prospect Hill Berkshiren-Young stock, eithe sows and boars; also some from our show herd
headed by our stock boar, Ringleader. Terms and prices right.
JOHIN WEIR \& SON, R.R. 1, Paris, Ont.

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FOR SALE

## Yorkshire Pigs

Dyne's breeding will be ready to shis earmy in J. Vipond \& Son, Cummings Bridge, Ont

Chester Whites
Our alxth importation has just arnived. One lit-
ber farowed in guarantine sired by Champlion 5oar Ohlo State rair-and a sow in pig to . Wol-
 IOHN G. ANNFSSER, Tilbury, Ont. Berkshires - Boass ready for service and boar Rember's Successor 101500, Grand Champion, cendants have won Grand Champion honors al the larrest and strongest shows of 1919 . The were Couble grandsons of Lord Premier's SuccesOr. We have shipped many Berkshires to Canad IOOD FARM, INC. Lowell Mas.

## YORKSHIRES

 from large litters.WELDWOOD FARMI Parmer'e Advocate, London, Ontario

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Young eows, bred for June and July farrow, and JOHIS W. TODD - Corinth, Ontario Meadow Brook Regitered Yorkshires vervice, from privewinning stock. Prices reason-
iblofor quick sale.
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## CAESTMR WHITES

 Cholce young ples, both sexee, elred by QauwzCollaway Edd Imported. No. 10881. Also Geo. E., Norry, R. R. No, 1, Tilbury, Ont
Inverugie "Tamworths Young sows, bred for September and October
farrow. Cholice boars of all ases. LESLIE HADDEN, Bon 284, Sunderland, Ont, Chester Whites Aoori and sowe of March and type imported boar, Ohio King - (20026) - They are
He by Nagles Select and Tena Glant. right and price C. COSNELL, Ridsetown, Ont.

DUROC JERSEYS
My herd has won more firsts and cham pion thip
in four years showing at Toronto than all other in four years showing at Totonto than all other
herds of Durocs comblined. Write for prices, CULBERT MALOTT, R. R. 3, Wheatloy, Ont


## Think what joys

These Puffed Grains bring to millions
On this summer day millions of dishes of Puffed Grains have been served in a dozen ways.

Breakfast brought them with cream and sugar, luncheon in bowls of milk. They have been mixed in countless berry dishes-used as nut-like tid-bits on ice cream
Girls have used them in candy-making, boys as nutty con ections, doused with melted butter

## A grain-food revolution

Prof. Anderson, by this inven tion, brought about a grain-food revolution. Never were whole grains made so fascinating.
Here are airy, flimsy bubbles made by steam-exploding grain. They are fairy-like in texture, and they taste like nuts.

Yet one is whole wheat - the very utmost in grain food-with


Summer suppars
Puffed Wheat in milk. It means whole wheat puffed to eight times normal sizemade flavory and fimsy and crisp. Aroken every atom feeds. ceigestion is made easy and
complete.
every food cell blasted. One is
whole rice.

Both are the best-cooked cereals in existence. Every granule is fitted to digest.
In these outdoor days keep Puffed Grains ever handy. Have both kinds on call. When whole grains are made so delightful let children eat all they will.

## Puffed Wheat

## Puffed Rice

Whole Grains Puffed to Bubbles
Steam - Exploded-
8 Times Normal Size

## The nuaker Oals company

Peterborough, Canada

## Our School Department.

## Teachers' Residence.

 In some branches of the administra tion of public echool education, the Prairie Provinces have shown themselves capable of giving a lead to Ontario. A special feature in the department of rural schools in Manitoba is that of providing teacher's residences, which are rapray This arose partly because of the apparent This arose partly because or che apparching impossibility of securing suitable boardingplaces for teachers, and also with a view places for teachers, and also
to securing greater permanence in the teaching term of service. These homes are described in some divisions as "Teacherages," and the Special School Organizer reports 22 new ones added during the year. He also proposed the erection of a "Consolidated Teacherage," to be buil near one school, and the teachers of two adjoining districts In Nrive 9, (Gladstone) schools. In Dive No. rhools teachers' residences were three schools teachers residences in the year. Glenboro provided a residence for the principal. Of six schools in Ruthinian District three have teachers' residences. The inspector of Div, No,
19 (Stonewall) reports 25 teachers residences. The report of Div. 23 (Winnipeg) describes the teacher's cottage as the centre of attraction in nearly all the districts being especially helpful in developing a better social The ideal rural school is
communities. The described as one with a school site comprising five to ten acres of land, a com-
fortable residence for the teacher and family, a neat stable for horse, cow and chickens, and a vegetable garden for
family use as well as school purposes. In , Winnipegosis (Div. 25) after losing a teacher for lack of a boarding house, the
trustees opened a residence, employed a trustees opened a residence, employed a
housekeeper and boarded their own teacher. In case of a consolidated school the presence of several teachers in one house makes a very home like affair of it.
In a recent report of the Alberta In a recent report of the Alberta Minister of Education, one of the in-
spectors states that the building of spectors states that the building or school grounds and the payment of suffmake teaching their life-work, would do a great deal towards retaining the services of
desirable teachers in rural communities, desirable teachers in rural communities,
The Deputy Minister of Education in The Deputy Minister of Education in
Saskatchewan makes this observation: "There is a growing disposition to make point of view, and for school districts to erect a school building with a teachers' residence and other appointments which are a real reflection of the interest of the
ratepayers in education."

## Garden Weeds.

Aim. - To call attention to the presende in gardens of plants not wanted, and to teach the names and general characteristics of a few of those plant
Materials.-Specimens of
Materials.-Specimens of weeds from
gardens, e. g., chickenweed, dandelion, thistles, couch-grass, lamb's quarters and red-root pigweed.
Method.-1. Discuss the growth of the seeds planted in the garden. Name some seeds planted. Did they grow? How can you tell? Have you found any plants growing in the garden other than those
from seeds you planted? Do you want
these these strange plants? What do we call
plants not wanted? of some of the common garden weeds,
and how can we distinguish them ? 2. L.ook at specimens of different weeds. Study each kind in turn. E
amine the root. Is it thick and flesh

What color is itt Taste it. Has it any juice? What is the color and taste of the fuice? Do you think the plant grew the plant is the thick, fleshy root? Exthe plant is the dercribe the stem. What color is it? How high? Measure its length. Is it branched? Does the stem grow straight up? Can it stand alone? Does it grow above or below ground? Describe the leaves. What shape are
they? What color? Are they smooth or covered with hairs or bristles? In particular notice the flowers. Describe their colors, shape, size, parts, perfume and arrangement. Look for seeds. Has each plant a name? Discuss the harm done by weeds.
3. Compare the different plants studied as to root, stem, leaves, flowers and fruit. Which has a thick, flessy root? Which has an underground stem? the largest and prettiest flowers?
4. Name some plants not wanted in the garden. What are weeds? Name some found in a garden. How tell them geart? Why don't we want weeds in the apart?

Look in your garden at home for weeds. How many kinds can you ard? free from weeds all the time.
From Try to draw a couch-grass plant. From Nature-Study Lessons, , Hamillon, Macdonald Colle.

Trustees and Parents Should be Interested. Preparations are now being made in great many places for rural school fairs, which will be held this fall by the schools of each township. The school fair has done much to interest the pupils in agriculture, and has provided a means whereby they can compete with each other in garden work, in the care of animals, in nature study, and, for the girls, in domestic science. This work, carried on for so many years by the Department of Agriculture in Oatario, requires a great deal of the time of the Agricultural Representative. If parents, teachers and pupils only thought so they could conduct their own school fair with little outside assistance and get a great deal of pleasure out of it, without calling upon the agricultural representative to do so much of the work which they, who are primarily interested, could do themselves.
Only a few days ago we attended a small meeting of the Trustees and Ratepayers' Association of Euphemia Township, in the County of Lambton. This Association was organized at the suggestion of the Agricultural Representa tive and its object is to decide practically all matters relating to the management of the school fair, and to make the annual school fair as successful as possbile We cannot see any reason why simila associations could not be organized in
every township where a school lair is held. The teachers are always interested in a school fair, and, of course, the pupils are also, but if the school fair is worth while holding at all it should be time well spent for the parents to take some part in making it successful and lending en purils who of course will have to do most of the work. Oftentimes parents or trustees can get special. prizes for one thing or another that either teachers or puphis could not get. The trustees also should be interested enough in the school sented and that prizool sented and that prizes are given for
classes in which their own schools are able to compete. The sports are an important part of the school fair, and if the trustees are willing to help a little this part of the program may be made very enjoyable,
for the spectators as well as the children.

## Kopper King <br>  <br> Character in a Spark Plug

FIRING the gas vapor, driving down the pistonhead hour after hour with an exploding sheet of flame, demands character-not mere metal and insulation-but character expressed in design, in construction methods and workmanship.

The Rust-proof Copper Surface prevents Carbon deposits; carbon will not adhere to copper under Electrical Heat. The Kopper King is without a peer among Spark Plugs. It is a quality plug from first to last. At all dealers, $\$ 1.50$.
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[^0]:    
    LONDON, ONTARIO, JULY 1, 1920.

[^1]:    Prof. Animal Hubeanty, $\mathrm{OA} . \mathrm{C}$, , wutph

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