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LONDON, ONTARIO, AUGUST 28, 1919.
No. 1405


Flying Sparks die out on Brantford Asphalt Roofing

## The best way to economize

The best way to economize is to buy roofing with the quality put into it that will make it last longer than ordinary roofings. Asphalt is one of the most enduring materials known to science-especially if the hard, brittle asphalts are blended with the soft, pliable kind, which produces an asphalt of remarkable toughness, elasticity and durability. This is what we do to get the very best grade of asphalt for the saturation and coating of

## Brantford Asphalt Roofing

The saturation of the felt in Brantford Roofing is done at the high point of more than 350 degrees. This makes the saturation complete, every fibre of the felt being soaked through and through with the asphalt.
Brantford Asphalt Roofing does not evaporate under the heat of the sun. Neither does it absorb moisture, freeze or crack. It is also a wonderful fire-resistant, the insurance companies classifying it as a non-combustible. Farmers need not hesitate to put it on barns or other buildings close by railroad tracks, because flying sparks from locomotives or threshing engines that fall on Brantford Asphalt Roofing are harmless and quickly die out without injuring the roofing. If the interior of a building should catch fire, a Brantford Asphalt Roof acts as a blanket and helps smother the fire. It neyer sends embers flying through the air to spread a fire. Brantford Asphalt Roofing has been on the market for many longyears-longenough to have provenitslastingquality beyond question. The first roofs covered with it are still doing yeoman service in resisting rain, snow, hail, frost, heat and wind.

Farmers who have roofed one building with it, choose it for the next building requiring a lasting roof. Un̈like most other things, Brantford Asphalt Roofing -has had ef very small advance in price since the start of the war: By enlarging our output and installing new labor aving machinery we have lowered the You need, therefore, not postpone doind the necessary rof raw materialis. on account of a price congideration. The outstandiag value of Brantford Asphalt Roofing, comsiderfng to-diy's conditions, mith real economy.
Brantford Asphalt Roofing is made in three thicknesses. No, 1 is 601 bs . per square. No. 2 is 701 lbs , No. 3 is 80 lbs. Both surfaces are sanded,
which adds to the weight and durability of the roofing.

Brantford Rubber Roofing
has the same high quality asphalt saturation and coating as Brantford Asphalt Roofing, but it has a smooth zubbery surface instead of being No. 1 is 40 lbs. No. 2 is 50 lbs. No. 3 is 60 lbe.

Leatheroid Roofing
Slightly lower quality than Brantford Rubber and used for same purposes. Has a leathery surface. Exceptionally good roofing at a low price.
$36 \mathrm{lb}, 45 \mathrm{lb}$., and 56 lb . weights, Samples and prices mailed on Standard Mohawls Roofing
This roofing is made of same materials as Brantford Asphalt but is lighter in weigh. It is the best quality or any low price rooing on the market. Ition. Sanded on one side been lested or years and given entire satisfac-

Climax Sheathing Paper
$r$ coated with high c Paper
A tough kraft paper coated with high-grade asphalt, For use between foundation exterior and the earth, below basement ceme foor, between feath floors in houses, on walls before lath and plaster are put on-unequalled for damp-proofing and wind-proofing purposes,

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Head Office and Factory: BRANTFORD, CANADA Branches at Toronto, Montreal, Halifax

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potatoes in the feld and piles them in neat rows where they
can be handled with can be handled with minimum labor.
The shovel is of test quality high-carbon crucible steel
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The Iohn Deere Low-Down Manure Spreader is GUARANTEED to
give satisfaction TO THE MOST PARTICULAR FARMER.
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Use this Kerosene Tractor for all work $I^{\mathrm{T}}$ is the all-year-round helper that takes the "arm" out oillarm to last
Built Built to last and give thorough satisfaction at every
point. Its light weight causes it to run on less fuel than others, and prevents it packing the soil; yet it has plenty of power for its work and is strongly constructed to meet the hard usage a tractor will get.

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Eddy's Butter Tub is the ideal container Its hard glazed surface will neither ab sorb odors nor impart them, as wood is will last to do. Being unbreakable they will last for many years. The first cost is
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For stable use and general use around the farm, Eddy's General Utility Pail is very popular. No metal to rust. No seams to open. Hard and durable. It seams to open. Hard and durable. It
will outlast any other. Yet it is very will outlast any other.
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## ngines


S. A. T. with Ford Car Answering the Hurry Call in Ploughing

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The most important mechanical device ever shown at the Canadian Nàtional Exhibition. Makes it possible for practically every farmer to own an automobile and a farm tractor.

No matter what kind of automobile you own, you can, without altering it, marring its appearance or injuring it in any way, use it with a Ford car, S. A. T. will do the work of four horses Used farm. Used with a larger car, S. A. T.'s capacity for work increases correspondingly, and S. A. T. can be used with any car, from a Ford to a Packard.
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time and adds to the farmer's convenience by grinding, sawing, time and adds to the farmer's convenience by grinding, sawing,
running the cream separator and on all belt jobs.
well S. A. T. is thoroughly dependable. It is simple in design and well constructed of the best materials. There is nothing to get out of order, and every part used in its construction can be replaced by any good hardware dealer. It is more easily operated
than other farm tractors. It cuts forever the drudgery out of the than other farm tr

Were S. A. T, to sell at three times its price, no farmer who owns an automobile could afford to be without it. It makes the automobile pay dividends when it would otherwise be idle. It to buy a car. In a word, it makes it possible for practically every farmer to own an automobile and a farm tractor. The price,
f.o.b. Orillia, is $\$ 448$.

## S. A. T.

## Schofield Automotive Tractor

Price, f.o.b. Orillia, Ont. \$448

## WHAT IT IS:

S. A. T. is a device simply and durably constructed on whic you can drive your motor car, whether Ford or Packard, and by making a rew simple adjustments convert your car into a practiconstructed and sooperated farm tractor. S. A. 1 . is so simply Every part used in its construction can easily be replaced in any good Canadian town or city. There is no special threading nothing that will entail long delays or big expense to renew or rep.ace. T. has been fully tested under every condition of service It is now offered for the first time to Canadian farmers.

Made in Canada

## WHAT IT DOES

S. A. T. will plough, harvest harrow or cultivate, With a Ford car as motor, it will do all that four horses can do. It will do all sorts of belt jobs, such as grinding, running the cream separator and sawing the wood, that horses cannot do.
of the day if desired. It does not tire our of the day every hour of the day if desired. It does not tire out; it does not get sick or
die on your hands, as a horse may. It costs less than a to buy and very much less to maintain. Do not miss the exhibit and demonstration at the Canadian National Exhibition. Ask for literature at our exhibit, or write to us at Orillia, Ontario.

## Implement Dealers, Hardware Dealers, Automobile Dealers, Read This!

S. A. T. offers a golden opportunity for increased profits. It sells for a small part of the price usually asked for a farm tractor. It will require little, if any, special seroices from dealers, and our proposition to dealers is interesting and liberal. Remember, that in selling S. A. T. you are introducing a deoice that will benefit every purchaser and one that is absolutely guaranteed to be satisfactory and free from defects. Terrilory is going fast. If unable to see us at the Canadian National Exhibition, write to us at Orillia for our dealers' proposition.

Hereafter the well-known Chase Tractor will be produced only in Canada.
Not only the big Canadian market, but also Great Britain, the United States and foreign countries will be supplied from the Toronto plant.

This will give Canadian farmers a real tractor service.

For, the men who make the Chase Tractor are Canadians, successful manufacturers, who know Canadian farming conditions and who are interested in Canada's agricultural development.

## See the Chase Tractor at Toronto Exhibition

You cannot help but see that the Chase Tractor is a sturdy, well-made, powerful machine. You will like the way it is put together and the way it performs.

CHASE TRACTOR CORPORATION LIMITED
28 Atlantic Ave., Toronto
The motor of the Chase is underslung, bringing the weight close to the ground.
This gives the Chase better traction and makes it thoroughly safe for sidehill work or travelling on rough land.
There is no differential gear in the Chase.
Both wheels get equal power from the engine. The result is equal pulling power under all conditions. When turning, either wheel may be throwin out of gear, and the Chase will turn in her tracks.
The motor is set across the frame, the belt power coming direct from the crank shaft. Driving power is delivered to the rear wheels without bevel gears. Note that the drive is on the rim of the wheels, where it should be to get the greatest power.
The Chase not only supplies power for plowing. It can be put on any and and will do good work. It will isc, harrow and seed. It will pull out stumps, drag bowlders or haul a stone boat. ou can put it on your saw, 36-inch separap or anything up to a seinch separator
See the Chase at the Exhibition, or, if you tion and illustrated literature. full informa-

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We have reduced the Titan $10-20$ price $\$ 225$. You can now get the world's standard $10-20$ tractor at prices

Titan 10-20

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## When you buy a Titan for threshing power and drawbar work, the original price includes:



Throttle Governor Some tractors are sold without governors because,
perhaps, the designers did not know that one was
needed, Which is needed. Which is the best economy - to pay an operator a salary just to sit on the tractor and adin belt work or let a throttle governor do it with. out extra cost?-do it automatically, perfectly. The Titan throttle governor saves fuel, prevents
grain losses by delivering uniform power to your thresher and lengthens the life of both tractor without extra charge. You get this governor

 the drive wheels evidently did not know that
the operator and machine unless ferdersud overer
it. The Titan $10-20$ hens such fenders. Thevent are
also a "safety first", feature. II some farming
sections laws have been passed pronibiting the
sale of fenderless tractors. Titan fenders are
furnished without the $\$ 40$ to $\$ 50$ extra charge
made by the "low price" manufaturs
 tractors get out of order less frequently than the general run of tractors. Some
tractor concerns whose tractor concems whose tractors really need frequent adjustment and repairs,
furnish nothing but two or three wrenches so good that it doesn't need adjustment. Do yey tell you that their product is
fact, they
 plete tool kit is furnished without extra charge. price"! The Titan 10-20 com-
Starting and Instruction Service
 make it compulsory. The the tractor without paying this charge. They
asking asking you to pay eria for it when you buy a Titan 10-20. Free tractor schools,

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## EDITORIAL

## Se the fait

Being partioal does not perent one buang pro
 thing to be learned. The midway is a sham and out of date in this age and generation.

The size and broadness of a man can always be determined by the view he takes of matters that affect him personally and in a financial way.

Farmers are entitled to know exactly what enters into the composition of the feed they purchase, and they should make an effort to get a list of the ingredients
making up the mixture. making up the mixture

## The future ahead of the pure-bred live-stock breeders of Canada is excellent if they steer the proper course.

 Two objects must be in view, quality and health. TheWell-drained fields this year paid off a large part of the investment put into them. They were sown early and produced a fair crop, while late-sown fields were almost a failure. Good drainage pays.

The most successful breeders and feeders of swine are embued with the importance of pasture and the necescity of allowing hogs to get in contact with the hog farms.
A day spent off of the farm in promoting a school fair or other educational events for the young may, in a influence it will have on the farm crops, but the good than compensate for any loss.

In some parts of Western Ontario the Hessian fly is getting dangeiously numerous. Late seeding will be practiced there, and when this is done an extra effort should be made to give the seed a good start this fall. Plenty of manure and readily-available fertilizer ought to be applicd.
It is going to be very difficult for an animal without a clean bill of health and, in particulcr, free from tuber-
culosis to get into the United States in the near future. culosis to get into the United States in the near future.
What arc we going to do about our herds here in Canada? What are we going to do about our herds here in Canada?
Are we going to let matters get gladually worse or are we going to clean up? In shite of transportation difficulties and fairly high
prices on this continent Furo large numbers of work horses, breeding heifers and some cattle for slaughter. A redistribution of the will he some years before we are back to normal again. The House of Representatives in the United States 'resilunt's veto and obtained eight more votes than the mocosary two-thirds majority. Opposition to dayshown 116 Republicans and both parties, for the vote over-itce the President's veto. If the Senate does likenfo there will be no more daylight saving in the
Lniun States, which will bury the last argument left

## Breed Tolerance.

Breed controversies will never seriously hurt any good breed of live stock. An enthusiastic admirer of one breed may have little use for another, but his partizanship, if conceived in loyalty and not in blind prejudice, will help to enlarge the popularity of his favorite breed of cattle without hurting the other recognized breeds. Clean competition always redounds to the credit of a good article.
The voluble and dogmatic breeder who condemns, holus bolus, all other breeds which challenge the supremacy of the one he has chosen to support, is really an obstacle in the road of progress over which his fellow breeders are swiftly travelling. He recognizes no other breed except the one he handles, and when discussing His profuse phraselogy His profuse phraseology amuses his listeners, and he is thereby encouraged to widen his vocabulary, while nuisance. It is well worth noting that a breeder of nulsance. It is well worth noting that a breeder of this type seldom produces good representatives of the breed he oupports. ln fact, earnest constructive breeders seldom stoop to throw mud at the products of other breeders

## A Prelude to the Fairs.

A series of exhibitions and fall fairs are starting in Eastera Canada, which before they conclude in October will afford practically everyone an opportunity of seeing the best produced this year in the way of farm products and live stock. Interested farmers will be discussing what they saw at this fair or at that, and, while in the minds of not a few a vision of the track and "tests of speed" will be recalled, yet the lasting features will be those exhibits of live stock, farm products, or any handiwork of man or nature that means better agriculture. The Exhibition Number of "The Farmer's Advocate" appears each year as a prelude to this series of fairs, and endeavors to prepare its readers for them, or to create an exhibition spirit, as it were. Withal, however, the downright practical is not lost sight of, for we are living in a world of stern realities and the most of us have to keep our feet on the ground. Nevertheless, one can be practical and at the same time progressive. He who is not progressive in these times is not practical. All should have an ideal to guide them and, while they may never attain to their own high standard in live stock or crop production, their ambitions ought not to be diminished. "Where there is no vision the people perish.

Some of the illustrations of animals in this issue are reproductions of winners at the best live-stock shows expected to duplicate them. They would never be accepted standard in core conformation, character etc., of the breeds they represent. With these in mind one has something to guide him even in the manage ment of and breeding operations connected with grade herd. The vast stores of beef mutton lamb bacon, or animal products of all kinds, now , lamired to feed the world are produced from grade stock and such will probably be procucce for and stock, and A pedigree animal for the block but it may increase the value of sire to get such stuff by hundreds of dollars. Good well-bred stock, whether pure-bred or grade, is a paying well-bred stock, whether plurebeds grace, is a paying propor live stock is extravagant who puts good feed into be established on firm hasis until we are able nove be established on a firm basis until we are able to say the sorub pure-bred just the same as we do a grade. That is what we mean by being frograssive. "Near mortgage on the farm.
extent on the number and quality of our pure-bred herds and flocks. There is plenty of room for development in both regards, and progressive young breeders who are good stockmen, who will capitalize the experience of others and who will steer a straight course, have nothing to fear when lying the foundation for a pure-bred herd.

As it is with live stock, so it is with all farm products. Breeding and good seed tell. An exhibition which brings together the best produced this year, even though the season has not been a fat one, will serve a useful purpose by reviving our good intentions and kindling a fresh confidence in the minds of all. It is to be hoped that this will be the most successful fair season we have ever had, and that it will be the prelude to a more prosperous and progressive era in Canadian agriculture.

## What the Hide Embargo is Doing.

At the beginning of this month an embargo was placed on hides and skins for the alleged purpose of preventing their exportation and reducing the price of finished leather goods to the buying public. Buyers of hides and skins at once took advantage of the situation, quite naturally, with the inevitable results-reduced prices to producers. Now, in all fairness, we will expect a reduction in the price of shoes, harness and leather goods of all kinds that farmers are obliged to purchase. If an embargo inju.iously affects one part of the community without bringing relief to anyone, the enactment is a mistake and an injustice. After all is said and done our importations are, of such character and magnitude that it is very doubtful if the quantity of hides retained in Canada as a result of the embargo will bring about the desired results.

Hides are going out of the country on the backs of cattle in increasing numbers since the embargo went into effect. Diovers claim that buyers on the Buffalo market are wise to the situation, and pay more for the cattle to the extent of twenty cents per hundred for the sake of the hides. Throughout August there have been a hundred carloads of stock weekly on the Buffalo market and from the West vast numbers have been going to Chicago and St. Paul. Last year 189,000 Canadian cattle went to the United States markets on the hoof, and it would not be surptising if 250,000 found their way across the line this year. The shottage of feed, no doubt, has something to do with this heavy liquidation of cattle stocks, but local drovers claim that a little better price for Canadian cattle on the Buffalo market, due to the hide situation, combined with the gain in the currency exchange, which now covers all expenses, is taking them to Buffalo tather than Toronto. In any case, hides are going out of the country on the backs of cattle in sufficient numbers to render the embargo abortive in so far as it may be of any use by piling up supply in Canada. It has reduced the price of hides all tight, but we fear that that is as far as it will go. More disturbing and serious still is the fact that United States farmers are becoming alarmed at the increasing number of Canadian offerings on theit markets, and they are showing considerable hostility to the powers that be for permitting commercial stock to enter free of duty. They would like to see the bars put up. It would be unfortunate, indeed, if we should lose this market that annually absorbs so many of our cattle, and provides an alternative outlet. It would be sadder still if the embargo on hides forced more cattle on to those markets than would ordinarily go and stirred up greater antagonism in United States to the free impoltation of animals for slaughter or further feeding.
As a general thing, it is best to let trade flow along As a general thing, it is best to let trade flow along receat embargo are piling up evidence in support of this

The Farmer's Advocate

## AND HOME MAGAZINE.

he leading agriculural journal in ithe

## THE WILLIAM WEL Weekly by

 JOHN WELD, ManageAgents for "The Farmer's.s., Manvocate and.
THE FARMER'S ADOCATE AND HOME MAGAZINE it pubished every
In hand
hamportial and and










 Siven. Case the "Full Name and Post Office Address Must be











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## Nature's Diary

Musicians of the Day and Night
During the summer and early fall most of the music which are molting are the insects. The birds, most of
time charly silent, while the spring-
 the only amphibian voices we hear are an occasaional
"mor-rum " from the Bullfrog and the squeaking note of
the little Te "mor-rum" from the Bullfrog and the squeaking note of But the insects take up the concert where the others
have dropped it, and day and night in feld marsh, the blended notes of many species are to be Of the insect musicians the great majority belong to the Orthoptera, the order embracing the grass-
hoppers, $\begin{aligned} & \text { ocusts, katydis, and crickets. All } \\ & \text { insects make these }\end{aligned}$ insects make their characteristic crickets. All these
tion, that is, by the rubsing stridulasurfaces. The very rybing together of two roughened
makes its rasping note abunt Red-legred Locust of the hind lasping note by rubbing a file on the femur
of tever a roughened vein on the wing-
cover The cover. The male of the Coumhened vein on the wing.
has a note which e-e-e-e-e-e." Which may be written "Zip sip-ziip-ziip-zee-
in moist places The yarious pithy plants, first gnawing a gash and then inserting the ovipositor. The Cone-head, whlich is
green like the Meadow Grasshopper, but has a pointed cone-sheped headowh Grasshopper, but has a pointed
conile the female has a very long
sword-shaped onviposito

One of the conspicuous insects songs of the night is
hat of the Northern Katudit
 This sound is made by slightly raisquenty repeated.
and rubling a showngs,
toothed like a short, curved, thickened vein, which is
 of the Snows Trecery characteristic night song is that
most persistent of insecket. This species is one of the
 Iternucon and keeping it up without a momenn's pause,

Tree Crickets are singing at the rate of 100 notes per A close ally of the above species is the Bush Cricket, Both makes a very high-pitched, continuous trill. are very pale green in color, and somewhat triangular in outline when viewed from above. Two species of black Crickets, the Large Field notes to the insect concert, and produce these notes by raising the wing-covers at an angle of 45 degrees over
the back and rubbing a file on one cover over a scraper orl Perhaps the
and the most intense of all sounds to be heard in a hields and woods, is that of the Cicada. Its note everyone-pitched "Zing.g.g.g.g-g" which is familiar to mals, such as birds and snakes. This sound is pro-


The Northern Katydid
duced by the stretching and relaxing of a pair of parch-
ment-like membranes by means of ment-like membranes by means of muscles attached to in intensity is due to the partial opening or closing of the sound-chambers. This species, which belongs to ground as a nymph. When the nymph is masture crawls out of the ground and on to the trunk of a tree where it sheds its skin and emerges as an adult Thee trunks of trees. This species is a near relative to the trunks of trees. This species is a near relatiy

## The Excitement in Farming.

mair the I course ci the past rar I think I hae read o' the young pecple o' the country and their pubesent
tendency to leave the auld farm and strike cot for the bright lights $o^{\prime}$ the city. One writer puts the cause doont os one thing an' the next one as something else.
Most o' them mak' the recommendation that the father should gie his young son a calf or a colt or a couple wee pigs that he might raise as his ain, setting a kind o trap for him, as ye might say, and making the bait
attractive enough to accomplish its purpose tae all accounts, however, this plan hasn't worked out
vera weel. It comos to be a pull between a calf on the vera weel. It comps to be a pull between a calf on the
one hand and the town cn the ither. And maistly the that the prodigal has to cost o' livin' 'gets that high na doot, come back to the calf, but it will have to be The thing that comes in for most blame in this matter o' the country movin' intae the city is what the
writers call the 'monotony of rural life ', tically all seem to hae the idea that if there wis some. it hold its present porg on on the farm not only wad a regular "back-to-the-land" stampede 'The coung abot a fine place for a couple o' weeks or a month in country's when we're needin' to get rested up a bit after a season
0 ' the "'movies" and the on in high society, but for an all dissipation that gaes to stay in, it's too much like livin' next eor tore place yard. Yer neebors may be peaceable enough an' all
that, but things are "too dead". And so they gae on to hand oot prescriptions that hey guarantee to pit mair life intae us and oor "en-
vironment," if we'll juist tak' them accordin' tae the But before ye can get a mon to be takin' yer medicine ye generally have to convince him that he is sick. ment wi' these chaps that are talkin' sae muckile alicot the "monotony"" o' "or life cn the farm. To my mind
it's onything but monctorous. For ore thing seen me change my job a dozen times in the thing, I've, havin,
to govern mystl' according tae the weat her. Leave the
auld wumman alone for hen to govern mysel' according tae the weather. Ihave the
auld wumman alene for hunt in' up somethin' for ye to
do aboot the hoose when it's rainin'. If ye happen to
be a
weeks to spare to be laid up wi' it. Juist as an example
might tell ye aboot what happened me no ago than last haying time. There wis mair than me in the scrape, but the point is that I proved tae mysel and especially to the ithers concerned, that there is
mair or less excitement aboot even sae common mair or less excitement aboot even sae common a thing
Besides the hired man I had a chap frae the cit as he this year. He wanted to "harden his muscles," as he said, and thought that a few weeks o' pitchin' hay
wad be aboot the best way to accomplish his purpose wad be aboot the best way to accomplish his purpose.
And I canna say that I tried to discourage him ony in the idea. Every little helps when ye are in a hurry
One day Jim, my hired man, took a notion to hitch up one o' the young horses that had been in the pasture wagon before I kenned onything aboot it. "Hell never be younger to learn," says JJim when I told him that the colt wis hardly old enough to hae the sense
for a job like drawin' in hay for a job like drawin' in hay. For ye ken I wis makin'
the loads and daein' the drivin' o' the team as weel It's a ticklish business when yer horses are young an,
lively. Especially for an auld fellow that isn't as lively. Especially for an auld fellow that isn't as
active as he was forty years back. Well, I managed not too badly till I had the load
juist aboot on. Then, as luck wad have it this chap that I tauld ye aboot (whose name wis Morrison, by the way) cam' alang wi' a big forkful o, hay that he
made an attempt to pitch up to me. But the wind wismade an attempt to pitch up to me. But the wind wis-
ower strong for him and it carried the hay alang to the front o' the wagon and doon it came on top o' the young
horse. I kenned what wad happen and I made the best time I could, tryin' to get to the lines that were fastened aroond the front part o' the hay-rack. But
the hay wis all piled over them and, dae my best, I couldna get them. By this time my horses were going
some, I can tell ye. There wis juist one thing for me to do an' I did it. Grabbing hold o' as big a bunch o' may as I could get in the time at my disposal, I let prayer that I might come doon wi' the hay underneath. , I landed safe enough, and when I got the dust oot across the field. Ine horses runnin in a kind o' circle fate for a man o' my age, I'm thinkin', and as the guad ring them to a stop made oot to get ahead o' them an' By this time Jim had come up, but Morrison wis
standin' where I had seen him last, standin' where I had seen him last, leanin' on his forkwhere he wis, to get the balance o' my load, he says to me, "Weel, Mr. Fraser, ye cam' doon off the load in quite a hurry. I suppose, like the auld chap that wis it on to him, ye cam' doon after more hay?", could pitch joking, and we stang as didn't feel in the humor for there Jim says, "We'll put that young horse on the fork an' make him tak' off the load. He can't run far wi'
that." Sae we took him off the wagon an' hitched him to the rope. "Do ye want me to drive him?", says Morrison. "All right,", I replied, ", but dinna let him
see that white shitt see that white shirt o' o' yours. He's not used to the a slap wi' the lines an' told him to go to it. And he went. One look back an' he wis, off like a shot. "Rin, Morrison," I yelled. "Get cot o' the way o' the rope."
Morrison ran but he wisna quick enough for the horse. The rope gathered him in, alang wi' a!! my milk cans an' pails that were on a stand near by, an' slammed the whole bunch up against the side o' the barn. It made
a clean sweep, even to the iron pump that wis in the a clean sweep, even to the iron pump that wis in the
well. When the horse had got the full length o' the rope he had circled aroond the end o' the barn, which wis how he came to tak' in everything in sight. I jumped doon off the load as quick as I could an'
ran to see if there wis onything left o' Morrison to gather up. When I got to him he had managed to get cot hrom bet weeen the rope an' the barn, but the lcoks o'
his face wis enough to hae scared yon are ye killed?"' says I. "No, I can't say that I am," he replied, "I seem to have scratched my nose on the
barn though. It's bleeding some" referring to his seem to hae been up against it ", says I ,
i'rearance as weel as the barn. "Ye'd better gae into the hoose an' lie doon for a bit.". hoose juist the same.
When Jim an' 1 came intae dinner, after gettin' every thing as weel straightened up as we could, Morrison
says to me: "I want to tell ye one thing, Mr. Fraser, I came to that I've changed my mind on some points. because the doctor said I needed to get away from the
rush an 'excitement o' the city. 'You'll find the countre very quiet and restful at this time ou' the year.' says he But, believe mee, Mr. Fraser, the city is the place where
you can live the simple life, after all. I'm going back. And back he went the next day after invitin' m some "relaxation," as he expressed it. I guess ye might hae some trouble tryin' to convine I guess ye might hae some trouble tryin' to con vince
him that ony o' oor young poople ever left the farm hinn that ony "oor young people ever left the farm
because of the "monctony" of the life. It's. al! in the

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## it. Juist as an example appened me no

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## LIVE STOCK

## Produce and Prosper.

bi. s. arkell, live stock commissioner. One could wish that practical Canadian stockmer representative of all the Provinces of Canada could
spend a fortnight, a month, two months in this great world metropolis, here to get a grip of the foundation upon which successful industry and effective international trade are developed and established. The the offices, at dinners in the Press, on the street, in the offices, at dinners, in the homes of London, is of costs, foreign competition, exchange, food, lanuarturing port, shipping supremacy, government, and thus one understands how vital to the future of Britain is her industry and her commerce. Take one example of this debate a quotation from yesterday \& paper. Asked twelve months, "Sir Auckland Gexpors for the past were as follows:-

United Kingdom-imports, 1,363 millions (sterling) orts, 626 millions.
Mr. Houston-Is it not 538 millions; exports 1,415 millions not increase and out imports decrease we shall be head ing for bankruptcy?
Sir Auckland Geddes- "I think that must be obvious to everyone."
When one considers how great is the population area, how dependent she is for raw supplies upon her side sources, how exacting are her labor problems how essential to national existence is her foreign trade one can appreciate the grave significance of the question about which London is now thinking and arguing with
so much concern. The thing that so much concern. The thing that matters to Canada
is how little importance is attached to the Dominion
in the in the discussion of this problem. One may as well talk turn upon manufacturing competition the iron, motor cars, machinery, the thought is of the United
States. Is it of dye States. mind still turns to Germany, Is it of research, the mind still turns to Germany. Is it of shipping sup-
remacy, once again it is America or Germany remacy, once again it is America or Germany that
receive attention. Is it of food-wheat, Canada is but one amongst many sources of supply, Chada ise it
can be had cheaper in New Zealand: beef the Argentine can be had cheaper in New Zealand; beef, the Argentine,
and Australia count most heavily and with a few other important producing. countries monopolize attention in the direction of refrigerated tonnage; finally bacon,
public attention is directed meanwhile to the public attention is directed meanwhile to the supply
from America, which in quantity has regularly eyceed Canada's output by several hundred per cent anceeded referring to the future, consideration is giv
time when Denmark will be in a position her usual amount. Canada does not count, meanwhile, so far as Britain is concerned, in the commercial and which is now challenging her most earnest and able tatesmanship.
weeks ago when Cou the case? Time was not many Her great war effort was on everybody's conjure with achievements of her soldiers had won for the Dominion proud and grateful. The pinnanle of should be bot and affectionate regard was reached with the delivery by General Curriie of his magnificent speech at the
Guildhall. This speech elicited from the editorial which history should preserve, together with General Currie's address, as a landmark of Empire
development. But since then times have changed development. But since then times have changed.
The Canadians have gone home. There have been the riots at Rhyl and at Epsom. British newspaper cor respondents in Canada have given wide publicity to th
Bolshevist propaganda at Winnipeg. Peace has signed. What is to be Canada's contribution to the
forthcoming era which is now opening a new page of history? Our soldiers have made a great name for us in
the War. What now will our citizens contribute as an offering to peace? It is thus that
Europe will measure our stature, it is upon this basis
that the Mother Country, that civilization will judqe our There are those who will be quick to say that the
United Kingdom was glad enough to have Canada's
 ready to throw us down now that the wat is over.
have not so iterreted the hatithe of
Country. Nothing would please the of the Noinher


 It is not that she ref fuses to help a daumbhter nation, biul
important supplies of meat might shortly be expected from that quarter. Is it any wonder that refrigerated tonnage is diverted to the Argentine and elsewhere? It bull, if only for an advertisement. It is such demonstrations that Britishers like, as an earnest of the spirit which produces results. Certainly we must use many such bulls to improve the quality of our cattle before can successfully compete on this market.
Now let us refer to the bacon trade held in higher repute during the war than that furnished by Canada. Lately it has been selling at from 10 to 20 Snillings per cwt. in advance of that supplied by the copardy, not because of competition, our position is in but through lack of supply from the Dominion countries the quantities coming forward are of mixed weights and of varying qualities. Unquestionably Canada in this business has one of the greatest opportunities evar carry on this trade, unless production is to attempt to full, steady capacity in season and out, through good report and ill, and with a determined confidence that is able to find a solution for all the problems that exist I am convinced that along this road lies success, to perhaps disaster. I believet but result in failure and program is undertaken, we should carefully conside the policy we are prepared to No haphazerd propaganda will now avail the future. basis alone will British traders find it worth their while to give Canada any permanent consideration, and British consumers find any satisfaction in the using of out product.
able outlet in Europe for Canadian supplies? Let me


No Evidence of Drought or Famine Here

Egg and poultry prices are correspondingly ... Eggs a were quoted at Havre at six francs per dozen marked $271 / 2$ francs. Eggs in in a shop front was shillings to four shillings and six-pence from four Canada's prospects to develop a profitable a dozen are unquestionably very bright, particularly in view trade the discontinuance of supplies from Russia and othe One thing alone is lacking-the combined wilt all those engaged in the business to make it a will of The task is no greater than that which confronted the an do the our Army. If Canada can do the one, she that national solvency and a depend. It is reatized can only be secured through a dependable civilization of production. This alone will ensure an export trade that country which early sottles of our Dominion, and behind its gigantic task of reconstruction quill firmly first to recover itself and to permanently will be the future welfare of its citizens. Produce and Prosper the

## The Local Fair

and International exhibitions, which, the large National to their gates and showions, which attract multitudes in agricultural and mercantile development, would be must needs bows of their present magnitude. There insignificant possibly from a world's stand important to the local residents, small folk in particu - is the place where youth learns to exhibit the products ground that makes show as seen at Toronsible holding of a live-stock These large shows are largely big breeders of various classes of stock rendezvous of the said that perfection meets perfection in the jure it may be and a battle royal is fought for the highest laurels bestowed by the exhibition board and the breed associashowing are to does not derreciate the less at these big shows, but this judging ring where neighboring herds learned at the local and, rivalry is keen. Not only is the local fair compete, place for showing stock, but it tests the a training ability to take defeat graciously and then, withoutor keener competitionainst his neighbor, prepare for national exhibitor the following year. Many an Interfitting and showing stock at thed his first triaining in petitions in the ring engendered in the mir, and the com youth a desire to breed, feed and fit a better many a live stock than that kept on the home farm, and of added to the ranks of the live stock improvers of Canada As. great care should becal fair must not be depreciated animals and in the selection taken in the classification of fair. Because of injudicious placing by for a National judges many a boy has gone away from the ring-side fit, or else has become ing and exhibiting of stock. Care should be exercised in placing the awards. The wrong impression as to type and individual merit of an animal conveyed to the minds of boys and girls may do untold damage. Local Who is able to explain where one animal excets another This would enlighten not only the exhibitor, but also appears to be a wrong pustify what on the surface the country can do a good deal to help the small fairs not so much by exhibiting as by assisting in every way community. Many of the exhibitorsal value to the
co-day will uture and should competitors at the larger shows in the to breed and care for the highest class of stock possible,

## Aberdeen-Angus Meeting.

The Canadian Aberdeen-Angus Association recently held the most represerdenti-2 nugus Association recently
Brandon. Breeders from Ont onting in its history at Brandon. Areeders from Ontario Manitoba, , saskathe
wand and Alberta were there, makking an attendance of
over seven This meeting, through the action it took, will mark
new milestonction a new milestone in the progress of the Aberdeen-Angus
lireed in Canada The President, J. D. McGregor, in the opening ad-
duress, called attention to the progress that hat been mate in the last tention to the progress that has been
around
In 1900 recistrations were around 5oo, and the revenue ssoo. In 19 ist the tersistra-
tions were nearly 4,000 and the revenue over $\$ 6,000$. incrase the the this progressive move it was deceided too
further inereastration tee by 50 cents per head, and forther increase the revenue to cover the increasing
cost of herd books. It was decidel to raise the member-

adopt the policy of ferent parts of the country. This scheme was approved.

## Some Royal Show Winners in 1919.



Proud Dorothy.
hampion Shorthorn female


Kingsthorpe Regent.


Edgecote Hero.
Champion Shorthorn bull at Highland Show, and sold for $£ .0,007$


## The Sheep Industry, With Special Reference to Wool Production.

agricultural journal could be picked up without fhich has occurred in the sheep population of Canada Statistics show that from the year 1870 to 1914 the in contra-distinction to the human consumption and numbers of other classes of live stock In 1871 there were over three million sheep here, whereas in 1914 just a little over two million could be mustered

When it is remembered that at the former time sheep were confined entirely to Eastern Canada and there were only a little over three million people in the country, the decline naturally did cause some dismay in agricultural circles. The decline in the East becomes
still more apparent when it is recognized that in 1914 still more apparent when it is recognized that in 1914 head of sheep in the four Western provinces, and the development of the industry there has continued very rapidly since the war

There is no necessity at this time to hark back to the oft-repeated reasons for the apparent lack of appreciation of the sheep industry by Eastern agriculturists. The exigencies of the war have shown the importance to occupy a more prominent position, net only in the minds of our farmers, but upon their farms No class of live stock was more important in the waging of the war. Wool is essential. No substitute has yet been discovered equally effective in the preparation of warm clothing. We have the motor car displacing the horse to some degree; we can do without eggs or poultry, gained for milk, but no substitute is there yet for woolen clothing in a cold climate unless we return to the rav fur wearing apparel of our ancestors.
This year's clip of wool in Canada will probably be in the neighborhood of sixteen million pounds. This represents a slight increase over production at the
commencement of the war, yet for manufacturing commencement of the war, yet for manufacturing
consumption in Canada it comprises only about half the amount that is used. This wool comes from about two and a half million head of sheep. Compared with for instance, Australia, a much smaller country in are the number is almost negligible. Australia has about ninety million head. Even Great Britain has te times our number of sheep. Greater and still greate production here should continue before our position i
the world as a sheep-producing country will be noticed. Much of the difficulty in the past has been due to very low prices for our wool, lower for the qualities
produced than our neighbors in the United States
received. This feature has now been eliminated received. This feature has now been climinated, and as anywhere in the world. The influence of co-operativ marketing in improving conditions of sale has had much to do in effecting this result. Co-operative
marketing has based its operations upon classification of the wool, which has directly helped to create an improvement in its preparation and character. In the old days wool was purchased by the dealer upon a
flat basis, that is, the same price was paid for coarse flat basis, that is, the same price was paid for coarse
as for fine, for dirty as for clean. These conditions did not give the grower much incentive to prepare his purposes, and having only a small amount could not interest the manufacturer. He was compelled, there-
fore, to dispose of his product to the middleman, who after grading and sorting the wool was able to dispose always on the plane of the poorest wool. In other
words, the purchaser will play safe, which inevitably discriminates against the producer of wool of a fine and Wool classification depends mainly upon two features,
spinning qualities or fineness of the fibre and shrinkage spinning qualities or fineness of the fibre and shrinkage
in scouring. The manufacturer never thinks in terms of the value of the wool in the grease or as it comes from the sheep, but rather its value tore. When, as we
in a condition ready for manuacture
farmers know it, must first be scoured to remove from it all the dirt and grease before it can be used in manu-
facturing. This creates a shrinkage which is most facturing. This creates a shrinkage which is most
variable, depending upon the class of wool and the distric
$\qquad$


Clothing prices about 10 cents per pound reduction from foregoing.
at we noticed that the report is divided into mo sections, Range and Domestic. The range is Merino type of wool, and in the United States is com monly called Territory, whereas the Domestic Comprise wool of Down or Long-Wooled origin without inter comes from large flocks and presents a different pearance to the Domestic. Again, Western Domestic wool although of the same origin as the Eastern will be much darker in color and sometimes weaker in staple
than the Eastern fleeces, owing to the heavier wind than the Eastern fleeces, owing to the heavier winds
of the West more dirt becomes incorporated with the of the West more dirt becomes incorporated with the
wool, and the colder winters will work a greater hard-


Shearing on the Clean Turf.
ship upon the sheep of the average flock, which weakens as breeding play a very important part in determining wool character. For instance, wool of the same type in the Maritime Provinces will shrink four to five per
cent. less and possesses a brighter appearance than the average Ontario product. The two scoured will have the same basis of price but in the grease, on account of Grice. Grading must first accomplish a separation of Range and Domestic. The wool must then be divided inge quanties of uniform fineness so that each grade wil


The Proper Method of Folding a Fle

The shrinkage is highest with Fine Staple, and dethe presence in the finer grades of greater quantities to wool grease or suint, which not only makes the wool weigh more heavily of itself but collects the dirt too a greater dégree. Consequently we sometimes find that the , very finest grade may have a lower grease price
than some of the coarser ones. In the instace market report already quoted, Fine Staple Range the have an average shrinkage of about sixty-five per cent or, in other words, out of one hundred pounds of grease wool there will only be thirty-five pounds, when scouring is completed, which will be fit for manufacture. cent. The general shrinkages of other range grader are about as follows, Fine Medium Staple fifty-sixades cent., Medium Staple fifty-two per cent., Low Medium Staple forty-eight per cent., Low Staple forty-six per Fine Staple is quoted at a higher cent. Although the Fine Staple is quoted at a higher price clean than the Fine Medium Staple, yet the latter, owing to its lower
shrinkage, will command a higher price in the by almost ten cents a pound.
Ontario wool, of course, has nct such heavy shrinkage as Range, nor is it so heavy as the Western Domestic,
which is still four or five degrees lighter than the Westent Merino types. Virtually the highest grade wrostern in Ontario is the Medium, which includes the bulk of the Downs with the exception of some of the coarser Southdown is more of a Fine Medium Clothing grade and the Oxford not infrequently is included in the Low Medium. The Low Medium class generally takes in the bulk of the Ontario cross-breds, the Low Combing The shrinkage of the Medium Lincoln and Cotswold. average about forty-two per cent., the Low is on an forty per cent., the Low thirty-eight per cent and the Coarse forty-four per cent. These vary even within the same district every year, depending upon the and at conditions, especially throughout the winter year was tighter and Ontario this year was lighter and much brighter than that in 1918. The farmer who makes a study of conditions of the wool market will be in a positicn to dispese of his wcol intelligently and gain for it the highest price. Wool interests sheuld have as good a knowledge of the ch his ter of his product as the merchant who buys from him. this country since first initiated in a great degree in 1914 two hundred and sias sold co-cperatively. In pesed of co-operatively six thousand pounds was disThis increased gradually till in this in Western Canada. hundred and twenty-five thousand one million, seven Cocted for co-operative sale, and last year the Canadian gether four million three hundred and fifty-four thousand that this resent prospects would make it appear The this amount will be further increased this season. bright. The economy of sheep instry in Canada is very and the rapidity of returns from seeding is well known, makes it an investment appealing tambs and wool least be mita at are increasing in this direction, but still are far behind mall flock on cyer is room for a Live-stock shipping associations are being formed
more rapidly than any other There are over 2,000 Farmers' Co-operative Shipising Af neal 700 associations Wisconsins. Minnesota leads with 300 ; Nebraska fourth, 250 ; Michigan fifth, 200; and
Illinois sixth, 60 .

Cold storage plants have got into bad repute owing to the fact that they are indispensible to the
operations of those who speculate in foodstuffs. How ever, we must remember that cold storage is the very
basis of our live-stock industry, our egg industry and
our butter industry to-day he use of cold storage but with the able is not with storage. We must secure the cold storage against
buse. The best way is through public owne
Our Sunth public ownership.
spending freely. There is abundance of paper money
in circulation. Agricultrual shows, which, during the


## roduction.

th Fine Staple, and de; of greater quantities of ot only makes the wool we sects the dirt to a ve a lowertimes find that In the instance of thice Fine Staple Range will undred pounds of grease ive pounds, when scourbe fit for manufacture. rinks about seventy per
of other range dium Staple fifty-six per per cent., Low Medium ow Staple forty-six per er price clean that the atter, owing than the her price in the lower nct such heavy shrink Western Domestic igher than the Western ch includes throdueed of some of the bulk of the Southdowns. The Medium Clothing grade
is included in the lass generally takes in reds, the Low Combing Lincoln and Cotswold, ent., the Low Men an y-eight per cent., and , depending upon the throughout the winter ter than that in 1918 lue to the cpenness of
of conditions of the highest price. Wool mer who protects his who buys from himto a great from him, 1912, when about sand pounds was dis is in Western Canada. and pounds ast year the Canadian nd fifty-four thousand nld make it appear rycreased this season,
ry Canada is very feeding is well known, ling to our banking e world's sheep. We it still are far behind tre is room for a
ns are being formed -operative enterprise ng an annual business 600 neso leads with 600; Iowa third,

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s that all classes are of paper money which, during the rawings generally ighland and Agrilmost in the very drawings reached ,or about $£ 10,000$ re clamoring for res, and prices of ses, have reached a +e phases of the $h$, or 5 s . 6d. per
1 s an for the best 1s. 6d. per dozen. ring, yet almost
going on.


## THE FARMER'S ADVOCATE



Leicester Ram.


Suffolk Two-Shear Ram.


Oxford Shearling Ram.


Pen of Lincoln Rams.


Romney Ram.


Hamshire Ram


Shropshire Two-Shear Ram.


## Getting into Pure-breds


acdonald Competitor as He Appeared as a Calf,
hen as a Yearling, Tw

DURE-BRED live stock and pure-bred live-stock breeders in Canada have about doubled in num-
bers in five years. It is probable that at least a thousand new breeders enlist each year. No reliable statistics are available, but it is estimated that among in Canada, not more than four per cent. are pure-bred. It is evident, therefore, that while pure-breds are making headway rapidly, reaching many new farms each year,
only a small proportion of the country has yet been only a small prop
occupied by them.
It may be noted also that the advance of the pure bred is general. Substantial gains are being registered spread throughout the country, and each year sees extended business with bigger sales in district after district. Breeding pure-bred animals is, undoubtedly, proving an attractive business; more people are getting they would like to enter if opportunity offered, and if they were just a little more certain of how to proceed and where they might hope to land
distinct classe theeders can be divided into two fair adopt practically any policy and those whose mon is a closely limiting factor. The first class is responsible for an important feature of the trade, but the latter is the prevailing class and the one upon whom the business thousand depends. In other words, among the cannot afford to binceders than as a limited ginvestpure-breds on any basis other regardless of pleasure and speculative considerations, and it is from this standpoint that the average man's policy must be framed.

Breedinf, Pure-breds a Distinct Business. When a man decides to purchase pure-breds he
should relize that he is adding an additional fature to his business with the possibility for return, ordinarily not depending upon either increased production or mor meat, milk and wool, but rather commercial products, value of the breeding animals and the sale of surplus stock. This statement is not intended to convey the
idea that pure-breds idea that pure-breds afford no posssibility for bettering
production. They do afford the maxinyt but the investment should not be justified by the ide that more milk or more meat or more wool will be made at less cost than can be done with good grades. Ultimately the return on the extra investment must com Consequently, the pure-bred prot breeding purposes.
ow Level Pupe-bpede Distiter The average breeding product will not be any better
than what it came fromi; in many cases it will good. The breeding stock selected then, must be high
enough to insure an there will be a demand. Moreover, in the for which of the commercial products the poor pure-breds far behind the lest grades. It is undoubtedly a fact that here is where the beginner usually makes his
initial mistake. He starts on too low a level. When he if he would likic good enough to sell her bull calf, or will she hurt the sale of him? This is the test that will be applied to evels often prectominate: they are easiest to olowing the best salcsinen have them; they are the traffic ma-
terial of the the
ot Much Avimal Individuality, breeding and parformance determine the level of the stock. The last one is not always measurable, but when it is it affords the final analysis.
It must, however, be interpreted intellizently in production, or a record in the show-ring, or a record even in breeding will bear interpretation. The first two, individuality and breeding, are almost inseparable both have guaranteeing value, and one should be the always the case. In attempting to distinguish is not the claims of the two the cong to distinguish between rating of breeding. A great many breeders will argue ferable good breeding but a poor individual" is pr without the reverse combination, "a good individua but the individual is too offenuently excused because be true supposed good breeding. In this connection there is
one thing that will bear emphasis to the beginner who is not likety to be too strong is the beginner who tion, and this is that individual marit is a goz 1 gumpantec


Individuality as Well as Pedigree
of pedigree excellence, and is a visible test of the pe
pedigree has been given too great a trading value. The establish some uniformity in them if possible les, and will do well to insist upon a proluct of merit in his own judgment, or in the judgment of some one clse in whom
he has confidence. What to Buy. Whent A man has to decide whether he will buy youngsters partially developed females, or those fully mature
It is a act that each of the above has formed the first step in successful herds and flocks. Perhaps the firs jority have started by purchasing the partially d
with immediate return The partially-developed ci is intermediate, and this probably accounts for is the pureness. For the man of very limited meari considering of a real good youngster or two is worth operations, or getting at least supplementing other fiable. The getting at least a small start, is justisometimes combined to exes, the old and the young, are of a very old brokengod advantage. The purchase calf which may or may not arrive is the price of her Where to Buy
Where to buy offers four chief possibilities, the local the exhibition. Like the breeder, the auction sale, four have been the starting point of case of ages, all prises. It is equally true that all four have anter. or disappointment. The first, in many localities will have its limitations because of little material available where a good selection is a vailable locally at reasonable afield. Yet this is what great mistake in going farther do. It is just another illustre majority are inclined to pull together and how little they are apt poorly farmers each other. Unquestionably the first place to look is among the local stock if such there be of any merit. he should the beginner is apt to belittle the local stock; make far away fier that good advertisements can well be necessary to go elsewhere, However, it may adyer isements will lend direction. incurred long distance stock with the extra expense complete, at with information sometimes not ver Many a pure-bred man has bought his first pure-bred as "a pig in the bag." It is unavoidable in some circumbeen all right, but it is not the contents of the bag has formation is complete and the circumstances fully known there is not so much to be said against it, but inspection when at all possible should be regarded as The auction sale is a tremendous factor in the ex change of pure-breds. It is a necessary institution, is that it affords a dumping opportunity. Many of our sales are no such thing and are backed by ample guarantee, but the beginner should approach the auction sale with a critical mind, realizing that too many of them mercy for the purchaser. horse at the halter with no
The exhibition is a fine place to see stock, to study to purchase on inspection. The three drawbacks that have to be intelligently discounted are that, winning more difficult to judge; and they are apt to be less satisfactory as doers and breeders unless in very good Healthy Stock.
In economic animal production health is a governing factor; it is vital to the health of human beings; it is and purchase; and, let us hope, in the near future will be subject to much more stringent regulation. It behooves the young breeder, therefore, to make sure und foundation. The first thing for him to do is to see that his quarters before he starts. In the matter of purchase, suffice it to say here that every precaution should be taken;
the reputation of the herd, if it hould be ascertained; the circumstances of breeding and sale should be intelligently and carefully looked It is regrettable that in cattle particularly two diseases, e spelling the ruination of many established herds, d many established herds,

The value of first-class males in herd establishment difficult to overestimate. A single male can make or break a herd of any size. The small breeder finds it

lifficult to justify a big outlay for his small stock, and
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THE FAARMER'S ADVOCATE

## A Partnership with Nature in the Hog Business.

THERE is no class of stock kept on our farms tocapital on so small an investment as the once despised hog. The porcine race of animals is to-day ducer's viewpoint. Their bacon helped save the food
situation in the great world crisis, and throughout the reconstruction period is playing an important part in righting trade balances. The hog is a scavenger of the farm, and at the same time a mortgage lifter. There is
little produced on the farm that he will not eat, and it little produced on the farm that "squeal" is the only part is a common saying that the squea is the only part the present generation marketing hogs on the hoof at twenty-four dollars per cwt., and woefully recall the days when dressed pork was drawn miles to market
and sold at four cents per pound. The uninitiated glibly states that hog feeders are profiteers, and cannot understand how they can be otherwise, considering the pig, who shovels ton after ton of present-day concentrates into the self-feeder or trough, and carries
pail after pail of milk, swill, or water, knows the expense pail after pail of milk, swill, or water, knows the expense
and labor entailed in producing the two-hundredpound hog. There is money in feeding hogs; of course here is, or there would be fewer on the market than there are, but the number is far too small for a country
like Canada. Some men make a success of hog feeding, while others find the balance continually appearing upon the wrong side of the ledger. It is the same in
every business. J. O. Duke, "the pig king of Essex," says, "there is mark at eight months of age. The earlier they can be made to reach this weight, the greater the profit. With proper care and feed, hogs should be ready for market at around six months of age." As the prices of feed and hogs fluctuates in much the rame ratio, the above
rule applies when hogs are selling at ten cents as well as when at twenty-two cents per pound. By knowing the age and weight of the hogs when marketed, the eeder's profit can be estimated.
There are several breeds of hogs, and representative of all have made profitable returns in the feed lot
therefore, one may safely say that results do not de pend so much upon the breed as upon the condition under which the hogs are raised and fattened, the care of the breeding females, and the feeds used during the various stages of growth. The man who pays attention to details and makes a study of hog raising and feeding has not lost money in hogs in the past, nor is some othe Besides being a keen business man, Mr. Duke
Essex County, is a student of whatever work he is engaged in. He does not follow a cut-and-dried rule irrespective of whether it is the best or not, but initiative is shown in all his work. His system of handling hogs, is working satisfactorily on his Essex farms impossible, practically all the feed is purchased at market, while the returns are many times that of bank interest on money invested in equipment, stock and feed. Health and vigor in all classes of stock are essential to success, and in order to obtain these in his breeding No elaborate exp, nature is followed as closely as possible. farm. Sheds are provided to shelter the brood sow
houses are used for farrowing pens. Labor is reduced water for himum by having self-feeders and running water for hogs of all ages. The accompanying illushog wallow. We will endeavor to convey hoppers and Mr. Duke's methods of handling the herd by describing in detail how the pigs are fed and housed from the time they are farrowed until ready for market.
Last spring there were seventy-two brcod sows on
the farm. These are pure-bred Duroc Jerseys, and were mated with a pure-bred Tamworth boar. The progeny very good bacon conformationers, and yet they hav farrow from the tenth to the twentieth of March, and during September and October in the fall. During the pregnant season they run on pasture and obtain all
the bran they want from a self-feeder. Bran is considered one of the best feeds for brood sows, as it is both laxative and bulky. When shorts are available they are used to a certain extent along with the bran Just previous to farrowing, from six to eight per cent of the feed consists of tankage, as this has been found to hetp prevent the sows from eating their pigs. The by seven feet in dimensions, two and a half feet hive at the back and five feet in front. These pens are built on four-by-four scantling so they can be drawn from place to place. The front of the building faces south A ten-inch board runs across the top and bottom. Or the east side of the front is a door large enough for the sow to gain entrance. The top part is boarded and a door: the remainder of the front consists of a large the which is removed during the day but closed at night or when there is a raw wind blowing. The advantage of this small pen is that the body heat of the sow will keep it sufficiently warm, except in extreme weather It is always dry and if the sun is shining is quite warm
even when the temperature is low. A. guard-rail is placed on two sides to protect the young pigs. If the weather is very cold at the time of farrowing, a bag is placed over the door at night and a lighted lantern hung in the pen. Outside the pen is a yard, twelvefoot square, which may be constructed of rails or boards pigs exercise in this yard and both sow and young pigs exercise in this yard, and as soon as the pigs are
strong enough to crawl between the rails or boards, feed is provided for them in a separate trough. These small houses have given better satisfaction as farrowing pens than large, more elaborate structures. The points pigs car favor are dryness, sufficient warmth, the young odor prevalent in a large piggery. After a sow farrows the proportion of shorts is increased and the bran de creased. From six to eight per cent. of tankage is fed throughout the milking period. If buttermilk, or skimmilk, is available it is given to the sows.
The young pigs are first fed on dry shorts, and as ground oats, wheat screenings, etc. Barley and corn have been found to be too strong feeds for pigs under 100 to 125 pounds in weight. When milk is available the young pigs get their share, and as the supply decreases it is supplemented by tankage. The ration for pigs up to 100 pounds weight consists of about fifty per cent. of shorts and the remainder of oats, screenings,
etc. From four to five per cent. of tankage is the pro
portion used for pigs up to 100 pounds, except in the case of young pigs where no milk is available they are ages secure their grain ration from the self-feeder, and it has been found advisable to feed the different con centrates separately so that the pigs may choose the feeder is that thest. The big advantage of the self larger one, as it merely has to equal chance with the gets his feed and then helps itself. Where possible pigs of like size should be kept together. At the time the representative of "The Farmer's Advocate visited Mr. Duke, 150 shotes weighing orchard, and everywhere one looked over the entire 300 -acre farm hogs in different stages of development were to be seen. These were from the spring litters, farrowed about the middle of Mifficulty the pens above described. One would have bunch These were atting their rations from twy self-feeders placed in the orchard. These feeders each had about eight feet of feeding space. Screenings were largely being fed to this herd.
drinking a fresh water for drinking, a pipe was laid from an elevated tank at the stream runs into the trough continually, quarter-inch from the trough supplying the water for the hog wallow. The hog wallow is considered essential. It aids in destroying vermin, especially if a little crude oil is poured into it. The water running into the trough continually gives the pigs fresh water to drink. The aigs are running in the orchard where they have pasture were in any way harming the trees. Other lots of pigs were running in fields where clumps of trees were growfeeding corners, so the pigs could have shade when not feeding. A couple of sows and their litters about of slash land of slash land.
winter was fitted farms is a green-house, which last conclude that this would be an ideal place for growing and finishing hogs, as they would have plenty of warmth, However, it was Mr. Duke's experience that pigs of the same age and weight, wintered in the orchard with but gains than those wintered under artificial conditions: Owing to so much glass in the green-house there was a considerable variance in temperature, and this had, the effect of causing a certain amount of rheumatism to he inmates of the "glass house."

Hogs are fed entirely from the self-feeders. The in use; both are inexpensive. The one it will be noticed is made out of an ordinary packing box, set on its corner in the centre of a three-foot stoneboat. The, bottom board on each side of the corner is removed to flow the hogs to get the feed, and the box is filled o make a self-feeder, one of the men turned the pack ing box into a self-feeder, and Mr. Duke says it is the best he has on the farm. The slope of the box prevents the water from running into the feed, and also prevents the pigs wasting the feed. On the farm where this box feeder was being used a regular water


Waiting Their Turn at the Boarding House



A Packing Box Turned Into a Satisfactory Self Feeder


Fresh Water and a Wallow in the Hog Pasture.

## THE FARM

Growing Prize-Winning Crops and Preparing Exhibits
The standing field crop competition has grown to enormous proportions in the Province of Ontario, and pains with certain fields in an effort to produce a special crop. Many have won and many have not, but there has been driven home a keener appreciation of the
advantages of good seed and good cultural methods, advantages of good seed and good cultural methods,
A number of farmers have done exceptionally well in A number of carmers have done exceptionaly well in
these competitions, and thinking that perhaps their
methods of producing prize crops, or prize grain, might be more or less applicable to crops, grain production in ingeneral,
a representative of "The Farmer's Advocate" made a
special visit to several farmers whosé names
the pipss might rave fresh water at all times a barrel of blood and carry us back to the memorable dispersion
water is drawn to the feed lot in the morning and a sale small pipe ownnects it wedt the trough, where a s stream
about oneeight? tinually, the overflow forming a small wallow. with the minimum of labor returns were being secured hogs are being turned off twice a yeare. Around 600 they weigh around the $200-\mathrm{lb}$. mark, at six months of
age. To a large extent the natural condition, so far as housing is concerned, and feed and water are available at all times. Mr. Duke's instem mouy be followed by the average farmer residing able to a larger section of the Province. It is certain that greater profits would be obtained if hogs were mentioned graze more. The farrowing pens aboveaccustomed to maving pens and flimsy to the man dimensions and eight or ten feet to the ceiling, where there is always more or less of a draft and dampness. factory on Mr. Duke's farm, where the very satisgoes to the zero mark and possibly lower at times.
Following natural conditions as closely as possible is certainly more economical than creating artificial vigor of the animal. The, mumber of hoge kept on the farm need not be confined to the capacity of the present piggery; a few dollars will purchase sufficient lumber the growing pigs. A dry-goods box will make or for factory selfifeeder, A and a dry drinking fountain can be made with a barrel. Feed is the chief concern at the
present time, but, with good clover or rape pasture and a supply of shorts, bran and finely-ground pasture and pigs may be brought along to 125 or 130 pounds. For
finishing barley pigs may be brought along to 125 or 130 pounds. For
finishing, barley, corn and screenings are generally
procurable. Have the hogs weigh 200 pounds at six procurable. Have the hogs weigh 200 pounds at six
months of age if possible; if they are kept over eight months, they do not

## Our Scottish Letter

## whe agricultural position here at present is some

 precedented drought. Rain has, in some parts oScotland, not fallen in any quantity for aboun of months. During June quantity for about a coupl Vegetation on light land is burned up. Pastures are giving out and a very light hay crop is being secured
under the most fave crop. In some parts of the country hat particular at £16 per ton. The ordinary pre-war price in a normal year was about $£ 4$, and, when the price rose to $£ 5$,
hay was regarded as dear. The root crop has in many cases, not got a start. Last year there was, in many
sowing of roots--Swedes and replants never appeared, consequently they never failed and there was no need to re sow. On the lighter soils in some parts of the West of Scotland the oat crop has together and fed to stock on the soiling system. Pate, raked are a sun crop; they have so far not suffered so much as other crops, but even now they cry out for moisture,
and their haulms are failing. Only on the heavier lands do the cereal crops promise at all fair. Whep and barley will be the crops of the year, and should
the harvest be at all favorable the growers of wheat the harvest be at all favorable the growers of wheat
are likely to do well. Labor, in the broad sense,
of the term, is in of the term, is in a state of perpetual une broad In ense,
department of industry and to do as little as possible and to receive as high wages
as possible. All sorts of theories are being advance as possible. All sorts of theories are being advanced
as to the cause of this undesirable condition of the
body politic, yet few have body politic, yet few have the courage to declare squarely cause is moral, or rather immoral. War is a bad thing and at its best, when waged for a good cause, it sets mutual moral obligations is at a discount: the outward and ordinary signs which indicate reverence for the
Supreme Being and subordination to His revealed truth are either lacking or avowedly despised. Until men recognize these obligations and their implications, namely, the dignity of honest labor, the sense of mutual
responsibility and political duty, the cultivation of a responsibinty and political duty, the cultivation of a
spirit of unselfishness, and the subordination of pleasure
and luxury to honorable toil Highland Shows Well Patronized.

> Reference has been made to the financial success
of the Highland and Agricultural Society Show. As an
exhibition the crent takes high rank . The Edinburgh
shows of the National Sociciy have always been among
the best, and the show of the best, and the show of 1919 in no wise differs in this respect from what has been. Entrics of stock of all
kind were characterized rather by quality than by
nuantity. In the cattle sel 4
 Mr. Sleigh of manure is applied, about 6 boads per acre and the Data, and third with his two-year-olde filly, Black wood taken not to have the soil to fertile celse the grain might champion. A feature of tast-named was junior Pemale threshed grain and won specializes in the exhinition of

A Winning Fibld on welowood Farm
A first-prize field of oats grown on Weldwood Farm this season was produced in the following manner: ten loads of manure last year was chosen. This was plowed last fall and double disked and twice harrowed plowed last The seed was run through the fanning
this spring. Thill
mill twice coming out well-graded and entirely free from Mill twice coming out well-graded and entirely free from
other varieties. Extra care was ta ken to have good other varieties. Extra, care was taken to have good
seed, it was treated for smut and sown at the rate of 9 pecks per acre. The field is well-drained so it was
possible to get the seed in during the last week in April. possible to get the seed in during the last week in April.
During the summer any thistles which appeared were cut off and other stray weeds were pulled out. While the crop is not threshed at time of writing it had every
ppearance of going 60 bushels strong per acre. The ppearance of going 60 bushels strong per acre. The
variety was O. A. C. No. .72. This treatment, it wil be oracticed at any time. In no more than should be practiced an any time. was a part, was deatlo with
which the competing ropp
in this manner and responded the same throughout.

## CANADA'S YOUNG FARMERS AND FUTURE LEADERS.

## Halton Calf Club Sale Unique

 A very unusual and progressive event was stagedlast Wednesday, August 20, by the Halton County Shorthorn Calf Club when the first annual sale of heifers occurred at Oakville. This event was unique from the fact that the calves were ail exceedingly well bred
besides being owned by the boys and girls belonging to the calf club. The sale was advertised in the way all some catalogue of entries was printed in the usual Shorthorm arim abbireviated pedigrees. The sale were first distributed, it having been made a condition of membership that the members of the Club must
allow the animals to go through the sale-ring some time alow the animast tock go throughtion sale-ring some time
later on. The stock was exceptionally well bred and a great deal of credit is due W. F. Strong, Agricultural
Representative, and the local Shorthorn breeders for initiating a club and consequent sale of this high stanThe boys and girls, too, who had purchased the of their first attempt at call rearing and auction sucless
It was certainly most tinteresting It was certainly most interesting to see the live interest
taken in the day's events by the boys and pirls whose taken in the day's events by the boys and girls whose
heifers were to be sold. They hung around the stables all day caring for and putting the finishing touches to their animals. Some were speculating as to the pro-
bable price the heifers would bring in the sale, while others had not much to say, but had already made up
their minds that they would not let these good animals pass out of their hands.
Although the sale
Ane oclougk, the heifers were all iuduled to begin until one o' ${ }^{\circ}$ 'cock, the heifers were all judged in the forenoon
by Prof. G. E. Day, Secretary of the Dominion Shorthorn Association and liberal prizers were offered for each of the
three classes into which the 27 animals were divided. These classes were estanlished more or less upon the which follows, winners of the first four prizes in each class are given. The sales are reported in catalogue
order and the first nine animals order and the first nine animals were in class one, the
second nine in class two and the last nine in class three. second Theys and girls who won the first four places in
each of the three classes are as follows. Class one each of the three classes are as follows: Class one, 1 ,
W. Sherwood, Freeman; 2, Stanley Atton, Freeman;
3. ville. Class, :' 1 , Robert McLean, Palermay, 2 , Max
Heslop, Palermo; 3 , Thos. Burtch Palermo. 4 Do Emerson, Freeman. Class 3,: 1, Bert Fuller, Oak-
ville; 2, Alex McNiven, Freeman; 3, Carman Sherwood,
Tre Tree man; 4, Harold Early, Norval. Max Heslop, woon
The niter the prize of $\$ 10$ in class four for the animal in the best sale condition. He won with Meadowsweet Jewel 2 nd.
Robert McLean, Palermo, won a silver cup donated for he animal making the greatest profit over the cost
price. His heifer, Victoria Varden, sold for $\$ 425$, nd cost originally $\$ 200$.
A very large crowd, probably 500 , turned out for the
sale and a great many were present in the forenoon also sor the judging. Both sex and all ages were represented
tor
as indeed they should be tavent of this kind esult of the sale financially could not help but be creditatory to average ooncerned. especially since the very
cise.51 was secured for the 27
keiers soldt The $\$ 400$ mark was goodly portion of the entries were knocked down at
figures above $\$ 300$. The sale total was $\$ 7,790$. A very good feature of the sale in some ways, was that
wherety a boy or girl could bid on his own calf and hrethy a boy or girl could bid on his own calf and
puy it in. If they bought it in they were only responsible Tr the original purchase price, but if, when it has been tprising, and agreeably so, to see price. It was really
keep their heifers than to sell for wrchase price. Just before the selling began Professor Day spoke
chly, conmending heartily the spirit of the breeders in
atshorthood and also the fine condtition ". Chborheod ang aarso the fine ocnitition in which the Wil as the manner in which they hand led their animals
jugging ring. He theught we need more cattle
and that the idea of getting the young people interested in this important industry was one of the happiest ideas and girls and their parents not to let the talves go out of the county, but to hold on to them and start the
nucleus calves that did sure-bred herd. The large number of spirit of the club members. The list of individual
sales is as follows: Bellwood Rose, E. Emerson, Freeman. Agnes Buckingham, (4th). Gordon Mitrat ford. lay, OakMissie of Glenholme 5 th, W W. Waldie..
Minas Roan ( 3 rf $)$ Cher Minas Roan, (3rd) Chester Early, Norval
Miss Ramsden 17ist, Colin Beaty, Milton Miss Remsden 177st, Colin Beaty, Milton....................
Countess Mina, (2nd), Stanley Alton, Freeman.. Flora, Erwin Gunby, Tansley
Clarewood Cranbeer Clarewood Cranberry 5th, Colin Alton, Freeman...
Meadowsweet Jewel 2nd, (2nd), R. Bessy, Clare Royal Belle 2nd, (4th), Douglas Emerson, Freeman Cecilian 6 th, (3rd), Thos. Burtch, Palermo Ictoria Varden, (1st), Robert McLean, Palermo Clarewood Isabella, Gordon Breckon, Bron Golden Drop 8th, Royden McMuray, Oakville.
Matchless 36 th , E. Robson, Deffield Roseleaf 2nd, Geo. Turner, Streetsville Lady Gloster, Gordon Breck kon. Marjory, James Hartop, Claremon Minnie May 6th, Dora Ryan, Trafaligar
Roan Lady (1st), Bert Fuller, Oataile

## Clarewood Queen, James Gibson, Oakville

 Flora 150th, (4th), A. S. Wison, Bronte | Spring Valley Dorothea 2nd, Geo. Adams, Oakville... ${ }_{2}^{3}$ |
| :--- |

## AUTOMOBILES, FARM MACHINERY AND FARM MOTORS.

## Lightning and Lightning Rods

 the earth causes the particles of moisture to become electrified and as the particles of moisture unite to orm clouds, these clouds become electrified. Gradually comes more and more different until it becomes so that the air between breaks down and electricity passes from the clouds to the earth. This electricity comes only from the lower part of the cloud so that after the discharges, therefore, take place between the tarious parts of the cloud causing the apparent boiling of the upper parts. Many lightning discharges can take placein the same storm because the cloud having adjusted in the same storm because the cloud having adjusted
itself can discharge further sparks from its under side. Clarkson describes very simply in the following paragraphs the safest method of rodding a barn so as to
prevent a build ing from being struck prevent a building from being struck of lightning taking place rather than oprevent a stroke discharge to earth, although the latter must be provided for. The barbed wire is particularly desirabbe because
of its multiplicity of shart points. wherehy wat of its multiplicity of sharp points, whereby what is
known as the "silent discharge" can take a building. This prevents the gradual accumulation of an electrical charge, and no lightning stroke can take
place. At suitable intervals on large buildings larger place. At suitable intervals on large buildings larger
sharp points, say six to eight inches, should be placed

A Good Type of Farm Dwelling
in a vertical position and well soldered to the main nearly vertical as it is possible to get them. end of the connection, it is the ground. Sufficient to stick the prove disastrous. The ground is the vital part of the given rodding system, and too much care cannot be east ten feet deep in the moist earth, and should be perfectly connected to the main rod by welding o
soldering. It should be thoroughly protected from rust or other deterioration, and care should be taken that the earth is closely packed around the rod where it is a large piece of metal best grounding arrangement is a large plece of metaire, applied we may the rules laid down above should be applied, we may take the case of a barn for example. Assume that an inexpensive system is desired, and so
barbed wire is to be used. First, lay a double strand along the ridge pole from the back peak to the forward peak, then down the sloping edge of the roof to the eaves, along the eaves, up the sloping edge at the back
end to the peak, down on the other side opposite eaves, up the remaining sloping edge to the opposite eaves, up the remaining sloping edge to the
front peak where we started from. Here we may cut the wire, leaving a length of four or five inches, which should be tightly bound to the first wire with which
wire. This joint should be flooded with solder. At the back eaves sufficient wire must be left to reach down to the grounding device. Where this ground wire crowses
the other the two should be bound together and soldered the other the two should be bund together and soldered. is placed, extending down to the eaves wire on each side the joints all being bound and soldered. If the barn has a gabled roof, another wire should extend along the
outer ridges, being carefully connected to every crose outer ridges, being carefully connected to every cross
wire. All the wires must be fastened directly to the wreod by means of double pointed staples. Under no circumstances should insulators be used, as they render
the whole system useless. Moreover, all metal the whole system useless. Moreover, all metal on or near the barn must be connected to the lightning rod. ground wires. It is well, also, to thoroughly connect
all wire fences on the farm to the ground at intervals of all wire fences on the farm to the ground at intervals of
fifty feet, as by so doing stock standing near the fence in a thunderstorm will not be in danger. The ground wires for the barn should extend from
all the lower eaves' corners and from the back peak They should the ground in as straight a line as possible. all of the bends and corners. If the door is on the long side, a ground wire should extend also from the front peak. Each ground wire must be bound to the For each grounding device, coil of the barbed wire in a ball and bury it hundred feet This can be a continuation of the ground wire. In covering the ball add water to the dirt as it is thrown tighter around the grounding device than if dry earth is used.
At both_peaks and about every twenty-five feet along
the ridge erect sharp points six the ridge erect sharp points six or eight inches long,
Preferably they are made of heavy copper wire filed $t 0$ a point at one end.
ing to the wire on the ridge bent for binding and solder be placed along all the ridges on a gable roof will the work is properly and carefully done, the result will be a wire cage solidly joined throughout and com-
pletely covering the barn. The wire will have pletely covering the barn. The wire will have a multi-
tude of sharp points and will be thoroughly connected to the ground in several places. In the case of a very long barn there should be extra ground wires from the eaves at the middle points of the long sides. The whole.
except the copper points, may be well painted frequently,


Ratherlarge perthe, for the ave farm Dwoll

## THE DAIRY.

## Rearing Dairy Heifers for Heavy Milking.

Large milk yields are the desire of every dairyman, omical production in large quantitites is is necesearonstocess cattle know full well that to get the most out of a cow is the only way to realize the greatest possible monetary value from her or her progeny. The prevalent reliance been the means of reducincrasesers of purke-breds has fine art and it need occasion the layman no surrorise to learn that animals of world record calibre are cared for with scrupuluous attention to detail and are fed with a promptness and exactness as to quantity that is not expeeded by the attention given to human patients
in our hospitals. Men are employed to cows who have made it a life employed to work those a good foedere wald ite it alite study, and the knowledge herd under his care is "cean ry") to say the least.
No little inportance in the future milkeast. of a dairy heiferi is attached to the way she is is reared from a new-borr calf to maternity, ince it is is assumed, from long years of practice and a multitude of experience that thecen bege work to maturity cander only be se secured if she has noot theorable for her development. 'The have bern Advocate", has sought to seproduce here, methods of rearing dairy heiers that are practiced by some of our most succesesful pur--bred breeders and particularly those whose herds are kown to be well bred and to have given to the dairy world, records that are notable. approached, and the sum of their practice is here record-
 \& Sons, Harmon MacPhersi, , Roycroft Frarms, Gordon Duncan, Alfred and George Bagss and orther succorssful
breeders have contributed to the mate breders have contributed to the material in this articile
and such suggestions as foll and such suggestions as follow are taken entirely from
the practice of one or another of these men Naturally, practice varies son men.
Nreeder, but so fo fara sa essentials. of of calf and hat wifer mana each ment are concerned all are in practical agreemant. To avoid confusion of ideas we frst initend agrement.
more or less in detiil the methods more or less in detail the methods fillowed by one of these breeders in rearing a cow that made a world's
record as at two-year-old. Fall calves are preferred to record as a two-vear-old. Fall calves are preferred to
those born in the spring, especially during the late spring months. These are teo cyeciany torning the late
heat and fies of the summer and it hheat and fiess of these sure too yount io withstand the
of this fact that fall of this fact that fall calves seem to be more
get of to to a better start. They and get off to a better starr. Them yet whomene pilk froy and ant
to eight weeks depending upon the vimor of the to eight weks depending upon the vigor of the caur
after which skim-milk is gradually substituted about atwo
 three times a day each calf getting from 12 to m mis pounds in the three feeds. By the time all the whole milk has been taken a way, the amount will have been increased to 15 to 20 pounds of skim-milk. The latter is continued untill the calf is from 10 to 11 months old, depend ing somewhat on the calf and the quantity available. From the time the calf is a month old it gets all
fheedsover hay it wants, but hay is never fed in big
feeds colves teeds tover hay it wants, in order to keep them themer fed in in big
 alsog $\begin{aligned} & \text { iven for the first time. About a pound a day }\end{aligned}$ is fed at first of a mixt ture made up of 100 pounds oat
chop, 100 pounds bran and 25 chop, 100 pounds bran and 25 pounds of oicaake. In
no case should more no case should more meal be fed than the calves will
eat up clean and relish The he nimer eat up clean and relish. The animals should be watched
closely and the feed regulated by the Cioser of the calf. On this farm the condition and
Vigor taken to keep the froth on skim-milk away from the calves. It may kill the calf eventually, but in tay
case it is composed chiefly of air and will throw the case it is omposed chiefy of air and wivl throw the
call off its feed, probably physic it and make the their calif off its fee
stand on end.
cept inside for the frist year the calves are always kept inside for the first year and roomy calf pens or
boxatals sere provided for them. Exercise is absolutely
neeosary necessary and the calves shomold dever be be crowsolded If
it is possible to prevent it small celves it is possible to prevent its small calves should never be
put in the same pen with larger onnes hecouse ther put in the same pen with larger ones because they wer will
not get the same chance to develop. The grain ration is gracualily increased as the calves get bigger until by
the time the are weaned from skim-milk they get

When winter arrives the spring born calves are changed off to a ration of about 10 pounds of roots, about the
same quantity of silage and enough red clover hay to same quantity of silage and enough red clover hay to
make up the balance of the roughage necessary. Grain is increased only enough to keep the heifers in gcod condition and each one is watched carefully. By sprin if pasture is good, as it usually is for several months, they require no other feed. During this summer they are bred and in the fall they are again put on a ratio of grain made up similarly to that given the calves ration are also given hay, silage and roots. The grain fore calving heifers should be receiving about 14 bo pounds of grain per day. Oats are particularly valuable as a growing feed, although on this farm they are not so highly regarded for milk production. should be put months before freshening the heifer of oilcake: about 75 pounds instead af 25 proportion 100 pounds each of the oats and bran. In addition they get at this time some alfalfa and clover hay, about 20 pounds of roots and 20 to 25 pounds of silage. They are fed four times a day just as though they were milking and on test. Punctuality is greatly emphasized in whether feeding on test or bur primary importance About a week before freshening nearly all period. is taken away;only 4 or 5 pounds, principally bran, still being fed. This, with roots and hay, will keep the bowels

86 pounds of milk per day gave just as much milk 26 pounds of grain as on 32 pounds and the largest Another cow made her best day's showing (127 pounde) on 28 pounds of grain
Practice varies
One very successful breeder does not believe threeders. should be forced on test at two years blieve that heifers said that they had never really yorced any cow whethe young or old. The former believes that considerther can be done in feeding to develop capacity in the your and growing animal by use of roughages. large quantitities of rough arge quantities of rough feeds will develop the digestive apparatus of the animal so that when put on test as mature cow it will be able to utilize large quantitie same reasons, using as much as possible without the versely affecting the condition of the animal. Jersey breeder stated that while a growing heifer should get fat get fat, because a fat Jersey calf will never make a milker. A good thrifty condition is desirable. Neither growth is desired.
Another breeder who has had marked success in developing heavy milkers under R. O. P. testing begine leeding a double handful of meal mixture twice a day as soon as the calves get all on skim-milk. This mea is made up of equal parts of bran and oatmeal with
a taste of oilcake added. He believes in letting the


The Best Five Jersey Cows in Milk at the National Dairy Show, 1918
locse until calving time. Within 15 or 20 minutes of
the time the calf is dropped the that time the calf is dropped the cow should be given a
half pail of warm water and this should be repeate intervals until she will no longer take it. When given promptly and regularly this simple treatment will after calving. The young probable evils immediately with its dam unless it is weak, when only half a day hours. Generally, the calf is allowed to be left 48 dam only once. gradually calving the dam should be fed very lightly the fifth day. By othe tenth day she fanding after hurt much with feed if care and good judgment be used. Occasionally tests are started on the seventh the tenth day case heavy feeding is not started until are cardinal essentials to milking as well as feeding farm. If a milker is more than production on this knows beforehand that he has started something late he milker is up and ready punctually on time and if the milker is late they may not let down their milk so readily
Cows are always bron Moreover, grain is fed very carefullst in good condition. fed is very carefully weighed and it Every bit of grain more than a tenth of a pound at a time never increased Since they are milked and fed 4 times a day this test, a possible increase in grain of nearly half a pound ${ }_{\text {day }}$ A cow must respond to each increase before have been given for a day, she is allowed to inces on that quantity for another day before giving ho is held that too comeat a tendency quickly. The opinion
feeding. It was found for inst shown toward heavy
winter and early spring calves out on pasture the firs
summer, but June calves inside. The older calves, he says, if later he keep not know how to act the next summer when they out and will not gain as they should. The calves are left out until October and occasionally later, gettin skim-milk all the time, preferably until they are a year old and always up to nine months. They are bred to
come in as soon after 2 years of age as special fitting before calving is practised, heifers no milking getting no grain whatever during the summer The owner believes, however, that if he was working before seven-day records he would have to fit his heifers before calving. If the heifers are bred in February
to calve in November the to calve in November they get grain when they come in cow giving 80 pounds per day feeding on test for mean a ration made up as follows, the feed herd depending, however, on the cow and her ability use it: 6 pounds bran, 6 pounds rolled oats; 4 pounds oilcake, 4 pounds gluten feed and 4 pounds cottonseed would be added to the were to be increased, something The methods of rearing heifers outlined above are those practised by men with heifers outlined above are
doing mored cattle who are less the prine less testing for high records. Nevertheare the same whoever follows them and it is only yattle to believe that these men merely and it is only natural with more exactness than the average dairymen. In engaged in commercial milk production shoun who is to get much that will be of value to him from a careful
study of what experience has taught these successfult pounds and the largest
ord cow w at 22 pounds
s showing 127 per (127 pounde od feeders and breeders
not believe that heifers not believe that heifere
years old, while another
forced any cow wheter orced any cow whether
ieves that considerable p capacity in the young roughages. Relatively ill develop the digestive when put on test as a
utilize large utilize large quantitites
Ir
young stock for r young stock for th
s possible with of the animal.
of a growing heifer should
uld never be ald never be allowed to
alf will never alf will never make
an is desirable. Neith nis desirable. Neither
if the most favorable ad marked success in 1 mixture twice a da skim-milk. This mea ran and oatmeal wit

##  <br> 路 <br> 

pasture the firs oming later he keep If kept inside, wil
mmer when they
uld. onally later, gettin They are a year They are bred to ractised, heifers no during the summet
if he was workin lave to fit his heifer when they come il vould, in this herd vs, the feed always lled oats; 4 pounds pounds cottonséed
creased, something outlined above are ored cattle who are
records. Neverthend it is young cattle
nd ut them into effect
age dairymen. In the man who is im from a careful it these successful

8

## Suggestions for Feeding Cows on

 Seven Day Tests.While it is by no means conceded by all good dairy men that a seven-day test is the best guage of a cow's ability to produce, nevertheless hundreds of dairy cows are tested in this manner every year. Consequently the following paragraphs by J. E. Burnett of the Dair Husbandry Section of the Michigan Agricultural College should prove of interest to feeders and will doubtless be value to many
It should be remembered by the feeder that it is the
ural tendency of the cow to give the heaviest flo natural tendency of the cow to give the heaviest flow possible to ster reshening and he should do everything on official test. In this tendency with cows the are largest production that the cow is capable of for a limited period, not the normal year around production and the short time records should always be considered in this light. It should be the effort of the feeder to caus the cow to give him all she can during the test period.

It is not natural for a cow to come into her mill immediately after calving, and the seven-day reard
in which the largest flow of milk occurs consequently starts as a rule more than seven days after calving. The higher percentage of fat is usually found immediately after freshening and the increase here usually more than makes up for the greater flow of milk that comes at a later period. The largest production occurs, however, when the feeder is skillful enough to hold the high test of the cow until the large flow occurs, when the two combine in a way that brings joy to the heart of all oncerned.

More large records are made before the cow freshens than are made afterward. By this statement, I mean that the feeder can do more toward helping his cow to make a large record by getting her in good condition before freshening than he can afterward. The cow supply her with the necessary nutrients from which to manufacture the milk; consequently, in order to get the nutrients she must take them from her body. In order that she may be able to do this, they must be there in a form that is readily available. Therefore the cow should not only be in good condition at freshen ing time, but she should be fat and the fat should be soft necessary to make the milk. In order to have the fat soft it must be put on quickly within two or at the most,
thiree months of the time of freshening. Fat put on thiree months of the tim.
and oilmeal in equal parts by forting is bran, oats, corn hominy it is an excellent feed for this period and should be substituted in the foregoing ration for the corn, as the fat for
desirable
About ten days betore the cow is to freshen, change
the feed to oround oats and bran or bran alone. If the
bran ando bran and oats are used they should b bin in aquel I parts ty
weight. This change will put the cow in a laxative dition, will help to keep the fever out of her blood, and will help to reduce or prevent the congestion in her udder. In an hour or so after freshening give her o pail of warm
water. Give only warm water for twelve hours after water. Give only warm water for twelve hours atter
treshening For tead continue the bran and oats or
the bran may be gradually put on the regular test ration Leave
the call with her for twenty-four hours. It will help to reduce the congestion in hyer uuder ands. the call should hore the first mik. Do not milk her out completely
for two days as a preventive against milk fever.
Start
 "At the time of the starting of the test the cow should

 upon the individual oww Some cows will go off feed
on one pound of grin to three and a hal punds of milk
While


Holsteins. Lady Korndyke Mercedes, John Harris, Copetown Clover Leaf Francy, Wm. Tavlor, Breencville

a gallon of water to the pound. This gives better results than where only a small amount of water is used.
"All the grain should be weighed to the tenth of a pound. All roots and silage should be either weighed or
measured. This is very important becaus while it me possible to feed a cow successfully without whe may or possible to feed a cow successfully without weighing enough in handling grain to accomplish this.

What the ration should consist of depends largely upon the feed at hand, the individual taste of the cow,
and the length of time that it is expected to continue and the length of time that it is expected to continue
the test. It may be said, plan to feed a rather narrow ration, one that contains a rather large proportion of protein. It is expected that the cow will balance the ration from her own body.

It is more important that the ration contains feeds set figures. ing tables. The digestible nutrients found in the feedtained in the feeds in question as they are the results of averages and the feeds on hand may be higher or
"It is well to to
It is well to make a variation in the feed of a cow done gradually as cows are very susceptible to sudden changes. All changes in the feed ration should ben accomplished by replacing a small portion of the old mixture with an equal portion of the new. Cows do better when there is a large number of different feeds in the of the mixture because of so quickly and will eat more the water she will drink The Give the cow all the better. If it is impractical to keep water before her all the time, she should at least be watered at every feeding
It is a good plan to have plenty of beets or other roots on hand when starting the test. Red table beets
are the best if they are to be had. Cows will frequently eat a hundred pounds or more per day of these beets. If the red beets are nut to be had, then of these beets.
mangels, suga beets, carrots, rutabagas or turnips should be substituted. Cows that are not fed too heavily will eat rutabagas readily, but under test conditions where it is desired
to get all the feed into the cow she to get all the feed into the cow she can handle, they
soon tire of the rutabagas and refues to soon tire of the rutabagas and refuse to eat but a very
limited amount. Roots of any kind are usually found to be great stimulators to the flow of milk. They are fed for the laxative effect and the succulent value rather than for the food value that they may contain.
is the way that gets the best results and this will probably be a little different for each cow. The exact methods another. It is necessary to study each individ not with to learn her likes and dislikes and then try to follow thew as closely as possible. Some cows do better for having a little exercise out doors each day while others do better in the barn all the time. Some cows do better if milked
with the milking machine, but most do better if milked wy hand.
experiences that led them to take difers who have had the above, but these are the general rules that the from ity of cows will follow, although as
above, each cow is a study by herse the major-
F. H. Medwin's Sale of Dairy Cattle persed his herd of pure-bred Ayrshires and Holstein along with a number of grades. The pure-breds
not sell particularly high,
2225 six-year-old Ayrshire cow. She went to price for a Six-year-od Ayrshire cow. She went to the bid of
Sam. Blinkley. There was a large attendance of breed-
ers. The ers. The grade cattle sold well, as high as $\$ 180$ being
paid for cows due to freshen. Following is a list of the
animals bringing $\$ 100$ or over. Ayrshires Orkney Grandmaster, W. J. Hills, Dundas
Snowflake 1st of Glenwood. W. Sensation, N. Dyment \& Sons, Brantlord
Pansy of Glen wood Pansy of Glenwood, N. Dyment \& Sons.
Lady of Glenwood, Wm. Green, Brantford Helen of Primrose Home, S. Blinkley, Dundas Annie Laurie of Glenwood, G. A. Book, Hopetown
Annie Laurie 1st of Glenwood. $\$ 185$ 180 165
160
180 180
150
225 ${ }^{225}$ 150 , 0

## HORTICULTURE.

## The Fruit Situation in British Columbia

## VERSLYK OF B.C.

The effects of the War can be seen in almost every
ccupation, and yet even though subjected to trials, it stands out as an interesting and encouragin tree-fruit districts of British Columbia throughout the during the War. Growers managed remarkably well to keep their trees in condition, with the result thell to orchards are in excellent shape, and should sten tha give increasing output with the succeeding years.;jly as there has been a steady increase from year to year

> Crop Prospects-1919 While it is still early to state accur
nnage may still early to state accurately what total 1919 shipments expected this year, the outlook for least 5,000 cars will be it being estimated that at some 4,200 in 1918, and 3,600 in 1917 compared with being largely due to a good apple crop. The Okanagan apples, and equally well.

Active buying may hardly be said to have started year's output are most prospects for ready sales of this that already contracts have been placed it is considered for 125 cars for Eastern Canada, and 150 cars forgan United States. Eastern Canada, took 150 cars in 1917. 400 cars in 1918, and should handle even more this year, since there is an increasing demand there for high-
grade Western boxed apples to take their usual supply and Prairies are expected embargo still holds, eliminating that market Australian: apples; New Zealand will take some; and the British market is expected to prove an attraction to shippers here, especially for the best grade of apples.
imate being 50 were rather scarce this year, (the estimate being 50 per cent. lower than 1918) although were a quality and bringing a good price. Sour cherries seriously a cfected their shipments. Plums and prunes are
with peaches and apricots about the same as last year
With the small fruit Bring Big Money
xcellent so far this season throughouness has been In the case of strawberries, the early placing of the contract price for jam berries at 16 cents a pound f.o:b. ments at $\$ 3.75$ the minimum price for crate shipgave an average- yield per acre considerably weather double that of 1918, which fact coupled with more than demand and extreme prices has made the season an unparalled one for strawberry growers.
The raspberry outlook is fully as good, with the The raspberry outlook is fully as good, with the
present price of $\$ 4.25$ (for the $2-5$-qt. hallock crate) f.o.b. shipping point. Loganberries are yielding well, this year, despite a rather dry summer, and the out-
look is for a very heavy yield of blackberries, especially look is for a very heavy yield of blackberries, especially.
if they are helped out by a little rain.
The future for British Columbia Good. couraging. While it is true that almost no large acreages
were set out during the period from 1912 to 1918 . plans calling for heavy new plantings, especially of
apples, are evidenced by advance apples, are evidenced by advance orders for nursery able supply. The same is true of small frup the avaif of loganbly. The same is true of small fruits, especially peculiarly favored for growing these berries, present indications show preparations for extensive plantings,
Some old strawberry bination to extend the picking planning a comfipening immediately after strawberries will give steady many returned soldiers already period ree or small-fruit ranching, while the are going in for atememex


## Imost every variation in climate to be found Province

 out the Dominion. Every section and valley has its own peculiarities, and even within a given district importance of choosing only those fruits and even theindividual varieties adapted to the immediate locality where they were to be grown, many mistakes were
made in the earlier plantings. In those sections ad made in the earlier plantings. In those sections adapted
to fruit growing, however, the record to date shows
not a single crop failure past experiences in the newer plantings by growing
fruit only in those parts naturally adapted to fruit, reputation on some few fruits or varieties which do

In all parts of the Province every effort is being
made by the Provincial and Dominion advisors and by the Horticultural Staff of the University of British way possible. Efficient inspection and eradication
methods for the control of fruit pests have proved a
decided boon to the farmer in

British Coly
from codling from codling advantage Within two States were
codling moth Consider: keting as wh associations,
problems of problems of
trend is for antiv. gained by co
houses, pre-c built along grade and pa market. Wi methods, all
Columbia is future.

Small Some of th yields and $p$ entirely sati so far has be because, wh
the acreage is especially , be
Advocate". $m$ he situation district and
been better section of the strawberri xcessive hea sections of

Founded 186

## ULTURE,

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 teresting and encourevigin lumbia were not negte
nogit nage rem rer kably well
witd the the resut the tid , and should steadily
succeeding years:;

## -1919

 is accurately what toond ing estimated thet at in 1917, the tincer withe crop. The Okanazazof fruit, especially of tis for ready sales of this ng when it is coso m tered
$n$ placed in the O n placed in the Okamagan
da, and 150 cars for a took 150 cars in int 197 :
handle y demand there fore thitit The Prairies are expected that market for B.C some; and the BPBC.
atract
atren de of apples. verace this year, (the
er than 1918) althont od price. Sour chenise
shortage on the Praine ing less than in 1918 in
$t$ the same as last year Bic Money.
business has been cents placing of the favorable crate shipiderably more thear upled with the heavy
as good, with the uits have done well fruit is most enImost no large acreages
from 1912 to 1918 . orders for nursery In those especially e berries, present planning a comies will give steady
going in for
$\qquad$ fruit and vegetable the one Province be found through-
and valley has its realizing the full e immediate locality e sections adapted

August 28, 1918

British Columbia can well boast of her entire freedom from codling moth and San jose scale; as wertas in some sections. In maintaining this rom scab in some sections. Ind ceaseless vigil are necessary to prevent introduction and spread of pests. Within two days, cars of pears shipped in from the States were r
codling moth.
codling moth, Considerable attention is being given to the marketing as well as to the producing end. The growers are quite generally becoming organized into local associations, in order more efficiently to deal with problems of common interest. In some districts the anits. Co-operation is the natural outcome of present activities, as the negessity of and the advantage houses, pre-cooling plants and storage houses are being houses, pre-cooling plants and storage houses are being grade and pack and rigid inspection are being emphasized as necessary for establishing and maintaining a steady
market. With the introduction of modern business market. With the introduction of modern business methods, all along the line, fruit growing in British
Columbia is pushing ahead toward a most promising future.

## Small Fruit and Tender Fruit Conditions Briefly <br> <br> Summarized

 <br> <br> Summarized}Some of the growers of tender fruits in Ontario, when asked as to the character of the present season so far as ntirely satisfactory. Others say that the season so far has been only an average one for the fruit grower, because, while prices have undoubtedly been good, the acreage is considerably below normal for some fruits, Advocate" made a somewhat brief survey last week of the situation in the Niagara Peninsula and the Burlington district and is inclined to believe that the season has been better than the average, but by no means satis-
factory to all. The situation varies somewhat with each actory to all. The situation varies somewhat with each Sion or the fre
Strawberries were a good crop on the whole, but the excessive heat ripened the fruit all at once and the normal difference in ripening between the different sections of the fruit area was practically wiped out. hird. It was perhaps fortunate that the acreage was elow normal, because in spite of the shortening were larger than might be expected. A great many 0 cents per box. The price averaged anywhere from 16 to 23 cents depending upon the section. Yields averaged from 175 to 300 crates also depending upon
the section, the lowest average price and the highest the section, the lowest average price and the highest
average yield being reported from the Vineland district where berries are a speciality and where the growers are where berries are a speciality and where the growers are
said to have done very well indeed this year. A gross
revenue of over $\$ 3,000$ is revenue of over $\$ 3,000$ is reported from one patch
less than three acres, while at Grimsby $\$ 3,700$ was r Raspberrias
Raspberries were a very good crop in the western
portion of the Niagara district. At St. Catharines they are reported to have been an exceedingly short cents and many were contracted for at 25 cents, but later the factory buyers succeeded in buying some at 18 and 20 cents. Probably 23 cents was an average price, with yields going all the way from 100 to 140 crates per show much if any increase, although the total will no There were practically no sweet cherries to market. Catharines district to an average crop at Burlington, and Vineland. Montmorencies averaged about $\$ 1.25$
per eleven-quart basket. At Grimsby the quality was good and the yield about 600 baskets per acre Currants were a good crop, especially red currants in sections where they are grown. Black currants did not yield so heavily. The price was about 17 cents per
pound and the yield about 1,000 baskets per acre. Gooseberries in the Burlington district dropped heavily Plums are generally light and bring only fair prices. European varieties are particularly light and most of
the crop will go to the factories. Reine Claude, the avorite canning plum will be very high in price.
Pears show a good crop of Bartletts, in some cases as high as 100 per cent. There are also some 100 per 6 are grown Bartletts are being sold to the canneries at 6 cent per pound, packages supplied, or about 90 cents
per basket. Nearly all of the Keiffers have been bought
at 3 cents per poland. At Winona most varieties of at 3 cents per pound. At Winona most varieties of
pears appeared to be carrying good to heavy crops.
Peaches are, of course, a big consideration and the Peaches are, of course, a big consideration and the
crop varies from 15 to 100 per cent. Good crops are
reported in well cared for orchards at Niagara-on-thereported in well cared for orchards at Niagara-on-the-
lake, Grimsby and Winona; 50 to 100 per cent yields will
be secured here. At St. Catharines the crop is only a be secured here. At St. Catharines the crop is only a
moderate one and during the last two or three weeks a heavy drop has occurred, due tast two or threct injury. Feeks
Ferther
West, orchards have escaped this affliction and Hamilton

per cent 25 to 30 per cent., Lemon Free and Smock 80 per cent. Elbertas are light at Grimsby. At Grimsby Hunter Bros., losing only 9 trees out of 8,000 . Prices vary from $\$ 1$ per $6-q t$. basket on the Hamilton market to $\$ 1.50$ per 11 -qt. basket. At St. Catharines the canneries will take nearly all the crop and this will doubtless be true of other sections as well

The grape situation is interesting just now. Almpst a record crop is expected and growers want a price
equivalent to about 40 cents per 6 -qt, basket. Wineries are paying $\$ 65$ per ton to Canadian growers but United States growers are getting $\$ 100$ per ton and more, with some up to $\$ 115$ and $\$ 125$. The grape growers in the Niagara district have organized for a similar price and sent a deputation of growers to the States last week in that there is a duty of 25 cents per 6 -gt basket or about $\$ 23$ per ton on Canadian grapes and that the grape juice manufacturers require their grapes delivered in flats instead of large bulk as in the case of the wineries. At least 100 cars have already been bought at $\$ 65$ per ton, find out this will probably be the ruling price of could o the grower this: year
The season has not been unusually bad so far as insects and diseases go. The majority of commercial orchards show good care but leaf curl was very bad on
peaches early in the season. About St. Catharines peaches early in the season. About St. Catharines
some orchards were entirely defoliated and some trees some orchards were entirely defoliated and some trees
actually cut down. Yellows and San Jose Scale are increasing again, the latter largely due to neglect in spraying. Some raspberry yellows appeared while brown rot caused serious loss in crop among stone fruits and the pear and cherry slug was particularly vicious this year. These, with the crown gall, snowy tree cricket and orange rust on raspberries and the currant borer, made up the usual complement of pests

Part of the Splendid-Flock of Barred Plymouth Rocks Kept by Mrs. F. W. Goble, Oxford County.

The Nova Scotia Apple Crop Outlook.

## Conditions in 1918 were such that all fruit trees

 developed well-rounded fruit buds in abundance. The winter of 1918 was mild, and spring approached with everything looking favorable for a large apple crop. The trees came into bloom at about the normal time, the Gravenstein, which is the first to bloom, being atits height about the 1 st of June. The first blossoms of this variety opened about the 24th, and this was fol lowed by dark, dull, cold weather for five days, whic unfavorable weather materially lessened the set of this variety. The majority of other varieties come rapidly
into bloom with warm weather commencing the 2 nd of into bloom with warm weather commencing the 2 nd of the weather continuing bright and warm, being idea in every respect to the end of the blossoming period resulting in a good set of all varieties. As earlie without bloom, every tree seemed to be prepared for business.
During
During the period following the 24th May to the first of June conditions were ideal for the apple scab
fungus to make a start, and orchards not thoroughly coated with a fungicide of some kind developed much scab on the foliage, and the Gravenstein clusters which had expanded fell a prey to the disease, resulting in
much scab development on this variety, and, of course, where spraying has not been closely followed since the fruit of other sorts have been injured from this
disease spreading from the foliage to the fruit. The crop is variously estimated from one to two barrels will strike the right figure and some deduction persistent spraying has resulted in protecting all late and free from insect injury.
Probably never in the history of the Valley apple
fruit and orchards on the whole have been well culti Weather conditions have been favorable, the moisture supply generally being ample without being too abund ant, and other than the period already mentioned
during the last week in May ideal conditions have obtained during the entire seaso

Bordeaux seemed to be the favorite liquid spray, and not a few growers have aclopted the sulphurfruit is looking fine, and there seems to be no injury from its use. There is a tendency to drift toward th dust as a protection against apple scabs and insects for the reason princinally that orchards are so extensive on most farms that growers can overtake the work in season, which is about impossible with the liquid spray,
The European markets are being canvassed presentatives from the Province at the present time with the idea that the bulk of Nova Scotia fruit will
find its way to that market with best return to the find its way

## POULTRY.

## A Farm Flock of the Better Kind.

Every report that comes to hand dealing with asricultural prout more or lese emptaticilly the demand for points out more or 1ess emphatically the deman dol
eggs and poultry products. The Dominion Live-Stock Commisioner and the Chiet of the Poiltry Division at Ottawa have both been in Europe this year studying market conditions, and both report an excellent opportunity for Canadian farmers to get a strong looting upon the markets of Great Britain with
eggs particularly.
Before the war Great Britain eggs particularly, Before the war Great Britain
imported eggs from fifty-five different countries,

be imported yearly a splendid opportunity awaito any country that will produce eggs in sufficient volume and grade them as carefully as Canada is doing at the present time. What we lack is sufficient volume, but this could easily be secured if the average farm foct of hens were larger and given a little more attention than
is the case at present. The farm flock may appear somewhat insignificant as a factor in the country's ege production, but it is a fact that only a very small percentage of the eggs produced in Canada come from the so-called egg farms. The farm flock is responsible for the bulk of Canadian egge. Farm egg production could be very greatly improved, and to this end the slogan
" 100 eggs for every hen and 100 hens for every farm" has been adopted.
Mrs. F. W. Gob
who has always likede, Oxford County, is one of those some chickens "O poultry and found profit in raising winter," said Mrs, Goble, "and during February they winter, said Mrs. Goble, and during February they quite good. Later on during the spring months, when hens lay easier, we got from 80 to 100 eggs per day and even now, during the hot summer weather, they are doing well. Yesterday (Aug. 17) we got 55 eggs from a few less than 125 hens. Our flock has been used by our Agricultural Representative as a breeding station from which to secure harching eggs of tor distribution among the school children throughout the country Three years ago we got new stock from Guelph, and this spring before the mating season, only 2 out of 125 hens were culled out as unsuitable for the production of hatching eggs. Of course, this being a breeding
station, the cockerels are supplied each year from the Agricultural College at Guelph, and this certainly has an influence in maintaining the quality of our flock.' When asked as to what time she liked to hatch her pullets in order to get them laying well the following
winter Mrs. Goble favored March and April-hatched winter, Mrs. Goble favored March and April-hatched
pullets if it was possible to secure them, but she said that pullets if it was possible to secure them, but she said that
hatching chickens so early in the spring is not practicable on the average farm.. In the first place, artificial heat heat
is necessary, and farmers are not at all anxious to have
fires burning in or about farm buildings. One year's of early hatching when, from 120 some of the difficulties 50 chicks emerged, of which only 18 were finally saved. is nicefers having the chickens come when the weather out in the midst of bright weather chicks can go right Her aim is to have every chick come out before May 10 . but she believes that May 1 is early enough for farm conditions. "No chicken," said Mrs. Goble, "should be hatched later than May 24 if you want them to lay When the
dry bread, moistened cornmeal and dry oatmeal are fed three or'four times each day, but not too heavily as there is danger of over-feeding. They grow and thrive well on the dry oatmeal, with sour skim-milk green feed until they are sprouted oats furnish the and in the sunshine. "Nothing," said the owner grass flock, "can mother chickens like an old hen. If the give a Rock hen 30 chicks she will take care of them start the incubator and then hens at the same the Then I give each hen about 30 chicks, and she takes care of them.'
baby chick feed thee weeks of age the chicks begin getting of everything. They each day, which contains a little and moistened, infertile eggs are fed with the oatmeal hens and growing chick. All through the summer the to what they can pick up, and the twice a day in addition consists of oats, barley and wheat. They al present panful of sour skim-milk every day, and Mrs. Get a considers sour milk to be an excellent feed.
The cockerels are seper
marketed when they weigh about from the pullets and left longer nothing is wained about 2 or $21 / 2$ pounds. If grain the pullets should have. In the will eat a lot of hens are fed mixed grain, as above, three times each day, the morning feed being scattered in thes each mangels ang before. They also get chaff, chopped mangels and peets, oyster shell, gravel or coal ashes Me grit is before them all the time.
hens make, but she knows how many the profit he and takes good care of her hens. She knows she gets profitable, and is always careful to clean the house regularly and disinfect each time. The accompanying that the birds she keeps are at feeding time indicates fall comes the she keeps are of good quality. When and replaced by pullets.

## FARM BULLETIN.

## McPherson's Ayrshire Sale

At St. Anns, Ontario, on Wednesday, August 20
he entite herd of R. O. P. Ayrshires, owned by Wilsoil McPherson d Sons was dispersed by public auction and the most successful purre-bred dairy sale termed one of Despite the fact that suixe-ben of dairy sales of the year. were 1919 calves and yeartings, the generala averaade made up the splendid finure of $\$ 235.90$ per heand, which b brought
the total receits sue tota receipts or the day up to s9,672, a very pleasing sum to obtain for cattle which were nearly ary pleasing
the tarm. They had size and breed one tor well brought out, and at the he prevailing however, were



 section Were siried percentage of those in the latter
sire, Briery Boy of going to W. Whaley, of Brownsville, at $\$ 290$. I Jud sel his worth from the quality of his get the price budging
this sire was excentionally this sire was exceptionally low. The top price bid on
day was paid by E. W. Butler. of to price for the



 ment. good. Auctioneer T. Merritt More te manazaee
then sale.
tollows:
 Heather Belle of Inglewood, A. S. Turner \& Son, 215





## Iris of Inglewood Ingleod, E. W. Butle

Lris of Inglewood, Jas Sorley \& Sor
Princess of Inglewood, Hunter Bros.
Ronnie Briery of Inglewood, W. Sherk, St. Cath Beauty of
Beauty of Inglewood, W. Scull
Primrose of Inglewood 2nd, B. McPherson, Blossie of Inglewood, H. B, Strong, At. A
White Daisy of Inglewood, O. Hoffman.. Jessie of Inglewood, Geo. A. Tinlin, Beamsvill Myrtle of Inglewood, F. H. Jorry, Beamsville Louise of Inglewood, R. W. Lane, St. Anns. Grace of Inglewood, Frank Morrison, Jordan.
Snowdrop of Inglewood, Wm. Wood, Smithvil Snowdrop of Inglewood, Wm. Wood, Smithville. Annie Laurie of Inglewood, R. W. Lane, Bright Boy of Inglewood, W. Morrison, Jordan..
Briery Boy of Inglewood, E. F. Tates, Hagersvil

Fraudulent Milk Records Detected in U.S.A
Recent exposures of fraudulent high records among
pure-bred dairy cattle threaten to to the pure-bred dairy industry be very disconcertin cause a panicky condition among breeders is the resul of the confessions of Charles E. Cole, a professiona This sensational confession cattle in the United States three weeks, very seriously disturbed the last two o Friesian world both in Can disturbed the Holstein and may well have an effect upon other breeds States, cattle, since the nature of Cole's confession is to cas suspicion upon all high records attributed to well-known eems that Cole prominent breeders. It resulted in a 51 -pund man who made the test which cow named Creampot Pevntiac Kutter record with a had been in official test for a few weeks at the farm cow man who was considered to be one of the most practical dairymen in the State of Vermont, and during this test wer maximum production was about 90 pounds per day this animal was fat test of about 3.1 per cent. Later, with another breeder named Hicks, in partnership mediately her milk flow and test marvellously most imto about 120 pounds of milk per day testing 5.1 per Officials of the Vermont Agricultural Experiment

mens of the Heifers Sold at the Halton County Shorthorn Calf Club Sale, Oakville, Aug. 20, 1919.
Station were supervising the test, and it was noticed of the cow, throwing her a commercially mixed ration
without any apparent inter Naturally the officials were inclined way she took to it crooked work, and after a consultation with suspicious Friesian Association of the United States, arranged to man from the Vermont Agricultural College. This
man first observed extremely hot, Cole always wore a heave weather was he milked his test cows, but that as soon as the milk-
ing of these cows was completed, the jumper, which previously been buttoned closely about his neck, was of the herd. Then, as a matter of fact, he would strip requested Cole to remove the jumper, which he re-
fused to do. Shortly afterwards he jumped into reis
posedly high-producing cows, it can easily be of sil the most careful and at the same time most drati action will be necessary on the part of the Associatio officials. Cole's confession showed a clear case of hel ing the cow by the addition to the milk in the pall; 0 water and clear cream. Underneath the jumper and a tube led from this bottle inside his trouseraled small hole through which the end could be bro to and directed into the milk pail. A cork in the end of the tube held the mixture in place until the milking was about completed, when the cork was removed and the unable to detect Cole at this done. The officials were was always careful to perpetrate it in work because he high, tight walls and with only one small window plath high up over the feed box so that the cow would always be standing with her udder in the shadow, and so that the supervisor could not stand on the opposite side of the cow. Fast milking and plenty of talk to the super
visor also helped. During his co
as to how he had started some years ago in the details of New York, together with other details as to his personal history, and descriptions of many of the anis mals which he had tested at the well-known Cabana of the Association State. He informed the executive what he was doing, those to whom the fase familiar with the way in which the high records had made aware those who had been helping him. He further described the manner in which he had received very high bonved for making these tests, running as high as $\$ 3,000$ for one test. He expressly stated, however, that Mr. knowledge of what was of Pine Grove Farms, had no he had shared the bonuses with the did state that farm, who in the case of the $\$ 3,000$ bonus received the third. This later was admitted by the manager one self, when called before the executive, but he, like Mr . Craudulent methods being had no knowledge of the records of a great many high-d. Apparently, the high valuable cows are involved in-producing and supposediy of fraud. Stringent action is expected from the Ho stein Breeders' Association, and, in fact Preside Aitken has made a long and official statement of the case as it has so car developed. This statement, we are glad to note, expressly states that "the only question
in the mind of any official or member of the board if directors is what is the right in the premises, what
does justice, equity and good conscience demand; and that action will be taken

Initial Price Set for Wheat definitely set at $\$ 2.15$ per bushel on the basis has been broad the Fort this guarantee. Argentine will pay does not justify looked upon as potential determiners of value are perhaps of such volume as to make it possible for Europe to purchase at $\$ 1.60$ to $\$ 1.80$ per bushel. Sir George
Foster is Government is quite safe in its that the Canadian and says that Britain is prepared to give consumers a public treasury. Our Government would surely the


had been given to the executive of the the inf information
$\qquad$ information regarding markets before venturing a price for the Canadian wheat before venturing a
initial price is to be $\$ 2.15$ per bushel for No Never, the higher figure, the balance remaining after expenses at a will be refunded to the original seller

Daylight Saving Doomed

August 28
Tor
Week E

Toronto (U
Montreal
Vinnipeg
Calgary....
Edmonton

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cattle force cattle suffer price. Loca
ly and spec ly and spec
can trade can trade
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ten thousan addition A few hea prices on
cents per extra good lo
and seventy hundred. per hundre bringing \$1 ten hundrel lower, $\$ 13$.
best grades, moved from
dred. Me hands from and commo
Choice hand heifers sold a few at
from $\$ 11$ to $\$ 10.50$, and
$\$ 7$ to $\$ 9$. in sympathy down 50 to pounds weig pounds weig good bulls from $\$ 6.50$ few choice
cows from medium fro
Canners we Canners
to $\$ 5.50 \mathrm{p}$ eeders sold
according to
prices fluct prices fluct determining As in rece


THE FARMER'S ADVOCATE
Founded 1868
14. Camedian packing houses and local
butchers purchased 1,083 calves, 1,234 butchers purchased 1,083 calves, 1,234
butcher cattle, 1,813 hogs, and 2,060
amt up of 3 canyes, 910 hogs and were made 241 lambs. Shipments to United States points con-
sisted of 293 calves, 50 butcher cattle sisted of 293
and 20 lamb.
to Aus total receipts from January 1 to Ausust 14 inclusive, were: 25,812
cattle, 39,403 calves, 35640 . cattle, 39,403 calves, 35,640 hogs and
18,218 sheep; compared with 22,010 cattle, shep, compared with 32,090 calves, 26,233 hogs and
12,041 sheep 12,041 sheep, caceived during the cor-
responding period of 1918 .

## Winnipeg.

Runceip
Receipts eek more than during twenty-five closed on Thursday opened firm, but oll grades of butcher stock. A large proportion of the offerings consisted of good quality heavy feeders and for these crices. was a During the week, over four prices, During the week, over four American points; the shipments included three hundred and fifty-four good quality stockers to South Dakota; one hundred and fifty stockers to Illinois, and seventy Thirty-seven choice feeders, Illinois, eleven hundred and twenty-five pounds from Kelliher, Sask., sold at $\$ 12.60$ per hundred; twenty-seven feeders averaging
eleven hundred and thirty pounds sold aven hundred and thirty pounds sold
at $\$ 12$ per hundred for shipment to St at 812 per hundred for shipment to St: hundred and fifty pounds from Pincher, Alberta, sold at sil.40 for shipment to
the South. Stockers sold from is to 39 and,feeders un to $\$ 12.50$ and generally from $\$ 10$ to $\$ 11$. Demand was fairly

## Montreal

horses.--Dealers see no particular has not yet opened up and demand who may have horses for sale larmers are still holding them for their own
purposes. Prices were. steady bin purposes, Prices were -steady being:
heavy draft horses, weighing from 1,500 heavy dratr horses, weighing from; 1,500 $\$ 200$ to $\$ 250$ each; light horses $\$ \$ 125$ to $\$ 175$ each, culls, 500 to $\$ 75$ each, and
saddle and carriage horses, $\$ 150$ to $\$ 250$ saddle
each,
Dressed Hogs.-The market for dressed hogs has declined in sympathy with that look exceedingly high as compared with former days, they are considerably lower than the recent top. Abattoir
fresh-killed hogs were quoted at 32 c . per
lb, for sele lbo for selects, while stags were 25 c . and Poultry.-Prices showed very little chought as high turkeys are said to have
broug. to 52 c. while lowis were 4 cc . and geese 28 c . to 30 c ,
Some fresh ducklings were 40 c . per 1 b . and fresh killed chickens, 40 c . to 44 c .
Potatoes. tatoes have been reported, but receipts
are expected soon. Meantime. stock was quoted at $\$ 2.50$ to $\$ 2.75$ per
bag of 90 lbs. bag of 90 lbs .
Honey
crop honey and Mas still sellingoducts.-Old crop honey was still selling at 25 c . per
lb. for clover and 20 c . per 1 b . for buck-
wheat. Purchase wheat. Purchases of new crop were
not being made frely as the crop is said to be large. Merchants are trying
to buy it at 18c. Eggs.- No change took place in the
market for eggs during the past week. market for eggs during the past week.
Prices were firm about 12 C . a dozen over those of a year ago. Strictly new laid
were quoted at 6 2c. to 64 cc . selected
eggs being 55 c . to 58 c . No . eggs being 55 c . to 58 c .; No. 1 stock
was easier at 50 c . to 52 c . and No. 2
stock wast 43 c to Butter.- The market continues to
$\begin{aligned} & \text { advance. gradually from timee to time, } \\ & \text { and last week pasteurized creamery wer }\end{aligned}$ ant last week pasteurized creamery was
rather hhigher, being $51 / 2 \mathrm{cc}$ to 56 c . per
lb,, while finest creamery was $1 / 2 \mathrm{cc}$. under pasteurized. Fine creamery was quoted

Rejected barley
quoted at $\$ 1.46$. Flour $\$ 1.46$. on the new crop and in the meantiting it is understood that grinding is going on continued steady way, Prices of flour and Manitoba spring wherat flont Stand at $\$ 11$ per barrel, ex-track, Montreal frights and si11.10 ex-track, Montreal ba kers with 10 c . off all the way round for spot cash. There is very little Ontario old winter wheat flour available, and millers are hoping for deliveries of new $\$ 11.50$ per barrel in new cotton to ex-store. White corn flour was $\$ 10.70$ to $\$ 11.10$ per barrel, in jute bags, delivered to city bakers, while rye flour was $\$ 8.50$ to 89 per barrel in bags, delivered. orders for millfeed. Mived to fill the or bran were quoted Mixed car lots bags of were quoted at $\$ 48$ per ton in ton, delivered, Montreal. Mills quote $\$ 6$ per ton under these figures, ex-track ant here tray. - The crop has been abundant hed. Demand the quality has not been Good No. 2 timothy per ton. The old crop is now practically off the market
steadies and Skins. The market was steadier last week, with steer and cow 28c. Veal skins ber bul bull hides at and were 70 c ., while kips were 50 c . lib Lamb skins were steady at $\$ 2.50$ Horse hides were $\$ 1$ up to $\$ 11$ to $\$ 14$

## Toronto Produce.

Receipts of live stock at the Union
Stock Yards, West Toronto, on Monday Stork Yards, West Toronto, on Monday,
August 25, numbered 272 cars, 4,661 August 25 , numbered 272 cars, 4,661
cattle, 777 calves, 2,876 hogs, 3,910 sheep and lambs. Quality of cattle poor, trade active. Good butchers 25 cents hirgher,
others steady to strong; tops $\$ 15$, for 8 others steady to strong; tops $\$ 15$, for 8
steers averaging 1,400 pounds
Sach Choice cows strong; tops $\$ 10.75$ to $\$ 11$. Other cows steady. Bulls steady; tops to \$22; a fe Calves strong; choice, $\$ 21$ $\$ 15.75$ to $\$ 16.30$ at $\$ 23$ l lambs lower; choic lower, fed and watered, sold at $\$ 21.25$.

## Breadstuffs.

Wheat.- Ontario (f.o.b. shipping points,
according to freights) - No. 1 winter, per car lot, nominal; No. 2 winter, per car
car lot, nominal; No. No. 3 winter, per car nominal;
nominal:

 \$2.11. William), No. Barley. $\$ 1.38 ;$ (In No. 4 ,
$\$ 1$
$\$ 1.3 ;$ rejected, $\$ 1.25 ;$ feed, $\$ 1.25$.
Oats. (In store Ft

## 3 C. W., 90 c .; extra No. 1 feed,' 90 c

Barley, (according to freights outside)
malting, $\$ 1.35$ to $\$ 1.39$. Peas,- (According to freights outside) Buckwheat (according to freights out-
side), No. 2, nominal. side), No. 2, nominal.
Rye (according to freights outside), Flour-Manitoba, Government stand
ard, $\$ 11$, Toronto, Ontario; (in jute bat prompt shipment). Government stand
ard, $\$ 10$ to $\$ 10.50$, Montreal, Toronto. freightse, bags included.-Bran, Montreal $\$ 42$ to $\$ 45$; shorts, per ton, $\$ 44$ to to $\$ 50$;
good feed flour, bag, $\$ 3.25$ to $\$ 3.35$

ton, $\$ 22$ to $\$ 24$, mixed, per ton, $\$ 10$ per to
$\$ 19$
Straw
ton, $\$ 10$ to $\$ 11$.
Hides and Wool.



Tallow.-City rendered, solids, in bar rels, 9c. to 10..; country solids, in bar-
rels, No. 1, 11c. to 12c.i. cakes, No. 12c. to 13c. quality, fine, 59c. to 60 c . Medium coarse 50 c .; coarse, 42 c . Wool, washed, fine, 75 c .; medium, 70 c .; coarse, 65 c .

## Country Produce.

Butter--Trade was firm during the past week at prices without change. fresh-made creamery pound prints, and choice dairy at 47 c c. to po po. per lb. Wholesale dealers are paying $511 / \mathrm{cc}$. to $521 / \mathrm{c}$.
per lb . for choice creamery solids at per lb. for chi
country points.
Eggs.-New-laid in cartons were firm at 58 c . to 59 c . per doz., and new-laid, excartons, were one cent higher, and sold at 54 c . to 55 c . per doz.
There was no change
There was no change in the wholesale price of cheese, and trade was steady at Lard -While there
price up to Friday trade was change in price up to Friday, trade was weak, and
dealers stated that prices would surely decline during the next few days. Pure lard in tierces was quoted at 37 c ., and pound prints at $38 \mathrm{~s} / \mathrm{cc}$. per lb.
Smoked meats were also steady in price, but will decline in the next few
days, as hogs are at least $\$ 3$ per days, as hogs are at least $\$ 3$ per cwt.
lower. Rolls, 36 c . to 37 c .; hams, medium. 46 c . to 48 c .; heavy, 40 c . to 42 c .; cooked hams, 63 c . to 65 c ., backs, plain, 49 c . to
5ीc.; backs, boneless 56 c , to 58 c . breaklame.; backs, boneless, 56 c . to 58 c .; ; breakfast bacon, 48 c . to 56 c .; cottage rolls 40c. to 41c. proved, and prices were somewhat im shade lower in odd spots.
Chickens, good farm stock, 30c.; old hens, over 6 libs. each, 33 c. ; old hens, over
5 lbs. each, 32 c .; old hens, $31 / 2$ to 5 lbs. each 28 c .; old roosters, over 5 lbs. each


Fruits and Vegetables.
Receipts of both fruits and vegetables
have been heavy and trade brisk. Apples have been heavy and trade brisk. Apples

continue to arrive in larger and are now quoted at $\$ 6.50$ to $\$ 8$ per | bbl., and 50 c . to 85 c . per 11 -gt. basket. |
| :--- |
| Currants, | are practically off the market, but a few lots arrived and sold at prices as quoted Peaches.-Receipts were liberal, but dealers say the crop will be a short one,

some choice Crawfords arrived and sold

Wholesale Quotations.
Apples.-Domestic, 50 c . to 85 c .
t. basket.; $\$ 6.50$ to $\$ 8$ per bbl. Black Currants. $-\$ 1.50$ to $\$ 1.60$ per -qt; $\$ 1.75$ to $\$ 2.50$ per 11 -qt. basket.
Biueberries. $-\$ 1.75$ to $\$ 2.50$ per 11 -q.
Grapes.- 60 c . to 75 c . per 6 -qt. basket Gooseberries.- 75 c . to $\$ 1$ per 6 peqt.
tosket extra choice, $\$ 2$ per 6 -qt.; $\$ 1.75$ O 2.50 per 11 -qt., basket.
Peaches.-Crawford's, 75 c . to $\$ 1.25$ per 6 -qt: $\$ 2$ to $\$ 2.25$ per 11 .-qt. basket.
Pears.50 c . to 60 c . per 6 -qt.; 85 c . to $\$ 1$ per 11-
 \$1.50 per 11-qt. basket.
Thimbleberries.-20c. to 25 c . per box.
Rubart per dozen bunches. Tomatoes.-Outside grown, 30 c . to
35 c . per 6 -qt., and 50 c . to 75 c . per 11 -qt. basket. Beans. - Home grown, 50 c . to 75 c . per Beets.-New, Canadian, 25 c . to 30 c .
pertidozen bunches, 35 c . per 11 -qt. basket.
 Cauliflower. $\$ 2.50$ to $\$ 3$ per dozen.
Corn. -20 c . to 30 c . per dozen.
$\qquad$
$\qquad$
ack domestic, 50 c . per 6 -qt., $\$ 1.00$ per
1 -qt. basket.
Potatoes. $\$ 2.25$ to 82.50 per bushel.
Parsley.-Home grown, 75 c . per 11 - ot

## Buffalo

Cattle.-Cattle prices on shipping cat Buffalo last week. Receipts were 1 lic Canadians making up the bulk of the offerings. Best Canadian shipping steer of which there were around thirty-fiv of forty cars, sold from $\$ 14.50$ to \$i5.2 enerally, some extra kinds up to 12.2 . eneraly, some extra kinds up to 81
In the heifer tine best reached $812 \%$ to $\$ 13$, although extra prime grades mere
quotable up to $\$ 13.50$. ${ }^{\text {Market }}$. quotable up to $\$ 13.50$. Market was full steady on anything in the butchering line. Market eased of somewhat towards thi mand throughout the week was strong de anything carrying a goal finish and of a desirable quality. Stocker and feede cattle sold firm, stockers running from around $\$ 8$ to $\$ 0.010$ the light, desirable Bulls were in wry
in values dropping a half doller espectlo on the heavy and fat butchering Nilk cows and springers of the betto Reports from Washingers about steady Reports from Washington are to the effec Canadian reciprocity treaty bupaf thy from Senator Wadsworth of New Yetter State, states that he has not heard minch discussion on the subject, and intimate that he favors letting the Canadian cattle competition a gainst native cattle. Thie comperition against native cattle. Tic
old tariff was $271 / 1 /$ placing of this tax would mean from $\$ 800$ to $\$ 700$ taxes Western shippers appear in favor of the egislation will hardly if it is attempted, as the Canadian businems is needed, to meet the strong demand on
the local market. Offerings for the totaled 5,575 as acainst 6,175 for the previous week, and as compared with 6,975 head for the corresponding week a cars of Canadians during the week. Quotations:
Shipping Steers, Natives.-Very choice 1,300 , $\$ 16$ to $\$ 17$, 118 ; best heavy, over $\$ 15.75$; best, 1,200 to 1,300 \$16 to $\$ 17$ sood, 1,200 to $1,300, \$ 15$ to $\$ 15.50$; 1,100 to $1,200, \$ 14.75$ to $\$ 15.50$; plain. $\$ 13$ to $\$ 14$.
Shipping Steers, Canadians. - Best heavy, $\$ 14.50$ to $\$ 15.25$; fair to good, $\$ 14.50$; common and plain, $\$ 12$ to $\$ 12.50$ Butchering Sters.- Yearlings, fait to prime, $\$ 15$ to $\$ 16$; choice heavy, $\$ 15.25$
to $\$ 15.75$; best handy, $\$ 13.50$ to $\$ 14.25$ : foir to good, $\$ 12.25$ to $\$ 13.50$; light and fair to good, $\$ 12.25$ to
common, $\$ 9.50$ to $\$ 10$.
Cows and Heifers.-Best heavy heifers $\$ 12$ to $\$ 13$. fair butchering ber helifa to $\$ 10.50$; light, common, $\$ 7.50$ to $\$ 8.50$ very fancy fat cows, $\$ 10.50$ to $\$ 11$; bes heavy fat cows, $\$ 9.50$ to $\$ 10$; medium to
good, $\$ 7.50$ to $\$ 9$; cutters, $\$ 7$ to $\$ 7.50$; good, $\$ 7.50$ to $\$ 9 ;$ cutters, $\$ 7$ to $\$ 7.50$. canners, $\$ 5.75$ to $\$ 6.50$. eavy, $\$ 10.25$ to $\$ 10.50$ good butchering, $\$ 9.75$ to $\$ 10.25 ;$ sausage,
$\$ 8.50$ to $\$ 9.50$; light bulls, $\$ 7.25$ to $\$ 8.50$. $\$ \$ 0$ tockers and Feeders.- Best feeders $\$ 9.50$; best stockers, 8.50 to $\$ 9$; fair to
good, $\$ 7.75$ to $\$ 8.25$; common, $\$ 7$ to
.
mall lots, $\$ 100$ to $\$ 150$; in car loads, $\$ 90$ o $\$ 100$; medium to fair, small lots, $\$ 80$ 70 to range in prices for a long time back. and while trade on these was slow light hogs, for which there was a keen demand,
brought a premium. Monday the top was 21.90, with bulk selling at $\$ 21.75$; Tuesday's range was from $\$ 21.75$ to to $\$ 22.25$, with heavies selling down to with York weights up to $\$ 22.75$. Friday prices were jumped a quarter to fifty
cents. Heavies ranged from $\$ 22$ to $\$ 22.60$, while Yorkers and mixed grades brought
from $\$ 22.75$ to $\$ 23$. On the opening day from $\$ 22.75$ to $\$ 23$. On the opening day by Thursday they sold up to $\$ 22$, and
Friday the bulk went at $\$ 21.50$. Roughs $\$ 18$ to $\$ 19.00$, and stags $\$ 16.50$ down. The past week's receipts were 14,500


Trouble Has a Trick Trouble has a trick of coming butt end Virst; ${ }^{\text {firs }}$, Once surmounted, straight it waxes eve And it tapers 'till there's nothing left at

So whene'er a difficulty may impend Just remember you are facing the butt And that looking back upon it, like as not, You will marvel at beholding just a dot.
-Author Unknown

The Fine Art of Furnishing ERTAINLY one cannot blame any-
one for having an ugly house.: Perhaps half the ugly stuff in it came down in the family from the stupid Mid Victorian era in fure rest in one's young callow, early-married days-and has been sorry for it ever since. Perhaps one has never had a chance to see really good furnishings. And, last of all, perhaps one thinks one cannot aford any better
There are no end of Perhapses.
There are no end of Perhapses. But what one does blame "anyone" for, is for keeping a lot of agly, inexpensive staf ord better. For the matter of furnish ing is not unimportant. Not only are we affected, more or less, by our surround ings, we are also judged by them. We
are known by the houses we live in. They are expressions of Us, because we express ourselves in them. Don't you believe
that? If not consider this: Can you imagine a really refined woman coluntarily choosing to live in an ugly, blatant, vulgar house, or even in a common-place inartistic one? True, such women are found in such places, but it is always
because they can't help it.
On the other hand, can you imagine a vulgar blatant, commonplace person creating
unassisted, a home that expresses only refinement and good taste?
uleso the conclusion stands established unless we are prevented by circumstance
we do express ourselves, to some extent we do express ourselves, to some exten
at least, in the houses in which we live. Nor, even in the cause of austerity can one take very much comfort in
living in a place devoid of all taste and beauty. The Creator of the Universe made it very beautiful. There is never a
fault in the beauty of coloring in sky fault in the beauty of coloring in sky, or
field, or sea. Think of the sky in it various moods, and then say if it it not dawn; the blue, cloud-flecked, at mid day; the gorgeous sunsets at eventide the pale, silver radiance of the moonlit
night. Even the gray day has its own , them-torn cloud their own granduer and majesty. Say
'Oh night, and storm and darkness, ye are wondrous strong,
Yet beauteous in your strength as is the of a dark eye in woman. Far along amg
among
and lone cloud
But every mountain now hath found a But every mountain now $\begin{aligned} & \text { tongue } \\ & \text { And Jura answers, through the misty }\end{aligned}$ Back to the poyous Alps, who call to her

Think also of the beauty of distant hills, and near green fields; of the brook
riippling through the wood; of the tiny Alower growing on its bank; even of the
mows covering the mouldering log, and
the lichen on the bare rock
perfect? Beautiful-infinitely beautiful? Then why should we hold it unimportant of the things care about the perfection make with our hands? Perhaps there is more than a modicum of truth in the words of an English enthusiast who has written: The man who thinks that by eating an ill-cooked meal and surrounding he is by things that offend the eye terrible mistake. The more we satisfy the beauty-sense, in our daily life, the more we are getting into touch, with another world that is more wonderfu than this."-By training ourselves to respond to all beauty, all harmony whether in Nature or Art, in the flowe of the field or the furnishing of our homes ge eater beauties, greater harmonies still

And, after all, the whole question, so far as house-furnishing is concerned, is not so much a matter of money as of taste. Just as a tiny cottage; perfect.in proportion and embowered in reses may outside than a huge residence from the millions have been spent but every law of good architecture broken; so may the inexpensive interior perfect in coloring and unspoiled by over-adornment, be interior more beautiful than that other lavish in expenditure of money and bad taste. At the same time, it must be admitted much easier to furnish to one's taste than when one has none at all. The aim of the following set of articles will be to set forth, to some degree, how a very little money can be spent to advantage, and also how greater amounts may be so as appeal to reader must adapt such her own need and her own power of spending

## But How Shall We Lnow?

"How shall we know, then, ust what o do?" says the mystified little woman who knows the "right thing" when she sees it, but feels confused in regard to is a perfectly natural one, especially for the farm wom, who is usuill much too busy to have time to burrow about in the furniture shops and study up books on furnishing as a city woman with time on her hands may well do
Perhaps the best way is to get hold build up from thoseneral principles and build up from those
We know that when we go into one room we have an instant sensation o pleasure; there is an impression of harmony, restfulness. Going into anothe room the impression is the very op posite. It almost, somehow, sets one's teeth on edge. One feels vaguely irritated. There is a sense of clutter, confusion, bad color, and discord.
Why the difference between the two rooms?-Why?
If we analyze we shall find that a few outstanding rules must have sway if the best results are to be secured:-There must not be overcrowaing. There must be proportion. There must be a colorscheme. The color-scheme must be good. the difference between homelikeness and severity. Above all things it is to be remembered that, as someone has aptly said, "By the gate of simplicity, one arrives at the pastures of Elegance."

And now, having stated the broad governing rules, perhaps the best shortcut can be taken by looking at concrete examples. And, dear reader, if your
house happens to be furnished at all like the "wrong"" the "wrong" example, do not despair.
of this article, that, in all probability you are not to blame for the misfortune and take hope in reflecting that even a very bad room can be made very much be done will be hints as to how this can to-day the effort will be directed to opening people's eyes to see what : opening people's eyes to see what is
really bad and really good in house furnishing. Let us begin with the living-room. The "Bad" Room.
I wonder if you have ever seen it? (Of course, this one is an extiecies). The wall-paper has huge figures that fly out ground color is red. The carpet, likewise, is bedizened with huge figures or flowers, that also spring up to hit you
in the face. Probably the ground color of it is green or a bright crude fawn The furniture is sure to be stuffed and tasselled, -no framework showing-and it, too, is covered with design. Just possibly there is added to it a golden oak arm-chair, a mahogany-finished piano, and a rocker of fumed oak. ye table huge lamp with a flowered shade (resting upon a doiley), a card-receiver, and several photos on little easels. The curtains at the window sweep to the floor and are of flowered Nottingham lace; but those at
the archway are of velvet or-figured damask, any old color; perhaps they are of silk rope woven in net fashion, or they may be of shells or strung "seeds," while the crowning touch of over-decoration is given by the fancy grille across the top
of the archway. Thanks to the passing of the archway. Thanlss to the passing of fads and fashions the what-pot has been sent off to the attic, but the piano
is loaded with vases and photos, and still bears a relic of barbarism in the silk drape across the front. If there is a fire-place the mantel, too, is draped with a scarf ?

H. R. H. the Prince of Wales, Presenting the Colors to the 26th Canadian Regiment Whose full name, with titlese, , is: Albert Edward Christian George Andrew Patrick David Windsor. Prince of Wales, Earl of Chester, Duke of
Rothesay, Earl of Carrick, Baron of Renfrew, Lod of the Isles and Seneschal of Scotand.
He is 25 years of age

Prochet- the net bage stuffed with milk
weed-down that once sving carelessly weed-down that onoe 6ving carelessly
and uselessly from a chair back have fol
lowed the mid-Victorian oblivion, but a huge bow tidies" into may still disfigure an inoffensive rocker or picture frame. Upon the wive rocker oo family portraits (in crayon), a daub in which perspective is sublimely disregarced (painted by the daughter of the Victoria's funeral or Somebody's tomb. If you search diligently enough you may even find, in an obscure corner, a "breastplate" mounted on velvet and framed with an appropriate border of black. instinctively you look about to see if Wtit grandma's silver tresses done into a lify, and Aunt Matilda's red locks into a oose, and little Mary's (deceased) into ohnny-Jump Ups; and you heave a sigh of rellef to find that it has gone off to the "Anyhow" the tidies and milkweed bag. whyliow," you say to yourself, "this fall of dust-catchers, and I know there are moths. I can't breathe in it, so-0-0-0

Here is another room-a less bad room but still not a good one. The wall papert. The windows hav, but it is indi ifed' to the extent of having inside curtains just to the sash, but the curtains are a hard, crude cretonne and there isn't an other shred of it in the room. The floor too, has been modernized. It is hard very well, but here is, the mistake, looks rug on it (there are too many of them) is put on a slant. Your eye follows along one and is brought up at the piano; from that it starts off along another that from to a little table on which is a jardiniere and lands you bump up of nothing ment interesting than a patch of bare wall Evidently the mistress of this mansion has a fad for angles, for most of the things thever the house are set corner-wise, the plano, the side-board, the easy-chairs, walls there are many pictures, (poon the and, water-colors, but they are all placed orner to corner so that the lines $2 i g-2 a g$ ip and down "every how." There is an makes you feel as if you everywhere, that makes you feel as if you were with Alice in Wonderland, with everything about you and a shadie nooke, ${ }^{\text {, oh }}$ for a booke, that is restful, to get a way from this maze

Then, here is another house. Do you like it? It is daintiness from top to house. There is light paper, pretty paper with satiny stripes, on every wall. The chiefly of living-rooms (there are no "parlors" nowadays)-is covered with a very good rug, plain pale green with a veneered mahogany upholstered in pale rose. There are heavy rose silk inside curtains, sash length. The pictures are well-chosen and well-placed, and the ornaments are not too numerous,-just a lovely Rookwood jar on the mantel, per
haps, and a little marble bust of Clytie There is a big sofa, covered with rose silk, too, but you wouldn't dare sit on it the cushions there are made to be looked at, not touched. One is of rose silk cored in tiny silk roses; another is pale green .(of the very shade of the carpet) with a flight of yellow butterflies across it; while the third is of muslin and lace, with pink and green satin ribbons run through. loo is one safe in saying hat you look in upon this room from the safe vantage point of the hall, then hurry you to) to a hospitable spot in the garder where you can sit on the grass, and lean up against anything you like, and not But enough of "bad" rooms. Now le least expensive of all. In a later issue
we shall consider good rooms that cost

A "Good" Room
$\int \begin{aligned} & \text { HERE is very little money to spend } \\ & \text { and the Little Woman looks at } \\ & \text { in despair }\end{aligned}$ man! Much may be done with little
and the spending of much money is no
teful and home-like home Yoasing, tasteful and home-like home place in it. The windows are ordinary, The floors are poor. The woodwork There is not enough money to buy good Where is not enough money to buy good ones are usually so abominable!-What then, can be done?
No wonder, Little Woman, that you
pucker your brows and feel helpless. pucker your brows and feel helpless. If we were soe
all good were should paint the walls were at all good we should paint them with waterand they can be got in a variety of tints. Even ordinary whitewash, tinted to a deep cream with yellow ochre and put on very carefully and smoothly, makes a very attractive wall-finish. If the plaster is chippy and unsightly with cracks it may paper (which is very cheap) but banila putting it on be sure to size the whole wall with glue-water. This will make a smooth surface for the water-paint alabastine, or muresco, or whatever kind you use. If we were you, too, we should wall must be the background for every thing else, and if it is wrong everything else is wrong. You simply can't have successful room if the wall is bright pink
or bright blue, or "Paddy" or bright blue, or "Paddy" green. These colors may do for a sweater coat but neve cream, buff, sand color, or a gray warmed up a bit with a very little yellow mixed in with it; even pumpkin yellow if the room is dark. If the walls are very high about 2 feet at ceiling, running down ceiling should be either cream or ivory the of the same tone as the walls, but two or three shades lighter, and- the line where


Gen. Sir Arthur Currie
the drop meets with the wall-coat should be covered by a narrow waoden coat should which
Say you have chosen the soft buff. Brown woodwork (a pretty wood brown never reddish brown) will go well with wall, and see that you put on the pain before the walls are done to paint danger of "spots."-Very well, then, brown woodwork and a soft buff wall. What next?
Since the floor is the other large back ground, attend to it. If it is only fairly good the fracks, and this to do is to stuff al cheaply by using a home-made "putty" made as follows: Soak newspapers in very thick boiled paste, 1 lb . flour to quarts water, to which is added 1 table spoonful of powdered alum; work unti stuffing them very full cracks with it shrinks a little when drying mixtur very thoroughly, then paint with one the many excellent floor finishes now on the market. Usually these, "to make a good job," call for a filler and two coats of paint, all of which may be bought ready made by mixing boiled linseed paint is ochre (some brown coloring may be added if liked) to a creamy consistency. Add a little turpentine, to dry, and apply to the floor. When thoroughly dry a clear floor varnish may be put on to make the
paint wear longer.

Now we have
Now we have the walls and floor curtains question; since the is the rug and anything question, since these, more than color needed In a house the accents of we are dealing with a rag rug in "hit or
miss ${ }^{\prime \prime}$ (with the reds left excellent, and would eft out) would tains of deep cream, scrim, with cur stitched, and hathree-inch hem, oven and portieres should never be curtaing they are so much more graceful if all in straight, easy folds. A more individual room would be achion by having the rug say of blue rags, almo checked curtains or the re), and blo chiefly olive green, or green and be mixed, and the curtains of factory cotton or cheesecloth stencilled along the fotton a design of the same coloring as those in the rug. Of course, the stencilling must
be beaulifully done. be beaulifully done; otherwise a heav ter. In any case the rug should be betof about three breadths, closely made together, and cut so that a consideron A space of painted floor will be all aboint A heavy lining will keep it from "rick. perhaps a "Crex" rag rug is not liked, then perhaps a "Crex" one will satisfy, or even Either of these is better than a ching. "bought" Union rug in poor design an" coloring.

The chairs may be made to look quit respectable by giving them a coat like new in a new blue, couch will loo. art denim cover (to match the rug) two or three pretty crash cushionst the table may be brightened by a big line or crash zunner or centerpiece trimmed while a shelf of lace in the same oolon a pretty lamp will revolutionize ferns and Don't have a glass shade on your lamm you want it to look its very best. wire frame made and put in a lining o amber or dull yellow Japanese silt there are ugly gaudy flowers on the bow, paint it to a dull, coppery frown, offence against good taste; your fern an look much better in its dull red wound all about with the bark-coverth stems of a wild grape, put on round and
round, very carefully, to cover the whole pot,-or the pot may be set in a home. pot,-or the pot may be set in a homeround bark-covered sticks built up tithe the rails of a snake fence.

Last of all, the pictures: You do not
need many, you know. Why not three or four good sepia prints of famous paintings-they cost only from - ceith or Copley Prints Companies, Pestyn, Mass., or the Brown or Cosmos Com. panies, New York.-Send for catalogue first) and have them framed in neat, darkic
wood frames, with brown mats? wood frames, with brown mats? The
very best taste must approve of that. A very best taste must approve of that. A not be out of the way. Hang your pictures, for the most part, straight, on a them by wires from a moulding; use thiose ittle brass picture-hangers that wil no disfigure your walls; any picture-deale

Have we left anything out
Nothing we think, except the few odd "touches that make the place look "lived in,"green and white bowl filled with aster or nasturtiums, the writing-desk, or worl or all of them.

And now survey your room, Little light to the eye? proud of yourself for creating a spot so
beautiful with so few dollars?

Of course, as attractive an effect might be attained, almost as inexpensively, by
adopting other color schemes. For inadopting other color schemes. For in-
stance, were a gray water paint used for the walls, the inside curtains, couch cove and chair cushions might all be of pretty
chintz or cretonne, flowered with pink roses, or rosy purple wistaria with bright birds among the plumage; and the floor
might be left quite bare, with might be left quite bare, with just a small
hooked (hit-or-miss), or braided rug here hooked (her

There is endless room for diversity of taste, and she who, in furnishing her home adhering to a harmonious color-scheme, may well congratulate herself. cream, scrim, or th a three-inch hem, her hung straight; cinten uch more gra easy folds.
al room wou ug say of bulue rags, ${ }^{\text {and }}$ ep rich blue), and blue
as; or the rug mioht een, or green and bmo curtains of factory cotton tencilled along the hem in same coloring as those in lone; otherwise crocheted - would be bet t the rug should be made
breadths, closely ut so that a consididerable will keep it from .lich rag rus is not liked, then " one will satisfy, or even ooks like inlaid flooriog.
is better than rug in poor design and
y be made to look quite giving them a coat of w'blue, green or t (to match the rug) tty crash cushiong: the ightened by a bigg iline or centerpiece trimmed ace in the same color;
ooks, a pot of ferno and ooks, a pot of ferns and
i revolutionize the irevoutionize the place ok its very best; get and put in a lining of
Alow Japanese silk. llow Japanese silk, If
dy flowers on the bow, Idy flowers on the bowl,
dull, coppery
frown , by the way, is alow an od taste; your fern will
in its dull with the bark-covereo ape, put on round and lly, to cover the whole
may be set in may be set in a home with bark, or made
d sticks built up lie

## e fence

pictures: You do not know. Why not.get
sepia prints of famous st only from 5 cents ought from the Perry, wn or Cosmos Com-- Send for catalogue brown in neat, dark $t$ brown mats The wo, for variety, would
e, way. Hang your st part, straight, on a , and don't suspend a moulding; use those hangers that wil not -
thing out? Nothing e few odd touches g on the tabled table the wl filled with asten vriting d desk, or york
K-case
or
your room, Little feel that it is a de-
And don't you feel And don't you feel dollars?
tive an effect might sinexpensively, by
schemes. For invater paint used for urtains, couch cover ight all be of pretty
lowered with pink wistaria with bright nage; and the floor $\mathrm{e}_{\text {, }}$ with just a small
or braided rug here
om for diversity of urnishing her home
effect, while still ious color-scheme, herself. tinued.)

## Cool Comfort



It's Sunday morning-blazing hot, and pretty near a whole day before you for rest and recreation.

First, then-a shave. Whether you are going for a spin in the car, taking the family to church or visiting a neighbour, you cannot go with a day's growth of beard on your chin.

The thought of shaving won't be irksome if you own a Gillette Safety Razorrather, you think of five minutes' cool comfort with the highest type of shaving edge ever developed. No man in the world can command a keener blade than the one you slip into your Gillette.

And if Gillette shaving gives you an added joy to your Sunday, why not take five minutes every morning for a clean shave as the start for a better day's work.

# Gillette Safety Razo: 



UNOWN THE WORLD OVER

Woman's Work on the Farm.

A Competition Letter. Heaven gave to women the peculiar grace To spin, to weep and cully human race In these serious times in which we live, there is a strong sense of personal and ndividual responsibility. It is here, and now, we must exert our influence, must plendid country in which it is our ortune to be born, to develop into all we wourd wish it to be. To the wrivilege and responsibility of moulding young lives to noble ends that they may take the places of those splendid and courageous young man, too many of whom will never again perform the duties of citizenship in their own land. We all agree that one of which is what the organized consecrated devotion of the women of any country can mean to that country. Years ago the poet told us:
'They can be great when great ocIn little duties women find their sphere, The narrow cares that cluster around the

But "narrow cares" have ceased to fill our lives. The "great occasions" have called, and how nobly women have reponded. 10 do this many women have the exigency of the times. Nearly all the women of our land, both of town and
heart and hand to the furtherance of Red Cross and patriotic work; and this seems most remarkable when we consider how full is the life of the home-maker even in times of peace.
To the farms the call for "Greater Production" came, and with it the inof adding to the burden of the already over-worked farmer's wife. When we think for a-moment of what a position she fills in the home and community, we what she attempts. Take some-halif of departments of the women's job and see all that is involved in doing the thing well. First and foremost comes the rearing of children, with the attendant knowledge of hygiene and child psychology which is required to have Thealthy minds and children think of the judicial qualities she sorely needs. She is the buyer of the family. She is interior decorator. To create an attractive interior with the means of the average family and limited
time of the average mother, is a task to time of the average mother, is a task to
tax an artist. She is seamstress, laundress cook. She raises quantities of fowl every year and prepares them for market. She has a great deal of dairy work to do, often milking nearly all the cows, besides the endless washing of dairy utensils; and, if this were not enough, the farm who drives the road. If any improvements or work which requires outside help is being done on the farm, she has them all to board. Some times it is possible for the farmer to employ help, but when the choice comes to his wife between having another member of the
family to board, wash and mend for, she often chooses to do work for which she is unfitted rather than add to her burdens
in the home, besides spoiling the freedom and confidence of family life with the constant presence of a stranger. The question arises-if farm produce was as of the war as munitions; why is farming not remunerative enough to sufficiently attractive to secure help and make it possible for them to live outside the farm homer it is impossible for women to do all that is required of them bodies of their children; the unselfish woman usually sacrifices herself and is unable to spend the time she should in storing her mind, or even in the care and adornment of person. She is too much overworked to be the mother of the best type of vigorous youth, and until many
of these conditions are changed and farming pays better returns for the hours employed and labor expended, the life of the woman on a farm leaves much to be desired; and she certainly should have every labor-saving device and the very best appliances possible for doing her

Under the pressure of cares and small irritations, a woman needs to cultivate a serene attitude of mind, a poise, a confidence, which is not shaken by every domestic storm; just a thought of the comparative values of things helps greatly. An unruffled face, a pleasant so much more worth while than a spotless floor and a shining stove. It pays just for a moment to pause and listen to in His splendors, hear the text the see God renders," and be the text that nature in a world of beauty and service in a scene of peace and prosperity even when half the world was bathed in blood and
tears. Nothing helps one so much as getting away from the scenes of one's labors for a few hours. We return
brightened and refreshed ready to take brightened and refreshed ready to take up the burden again; we even forget that

> Labor with what zeal we will Something remains undone, Something uncompleted still Waits the rising of the sun.

For our own sakes as well as our duty to the community in which we live, we all social activity. Many people have a deep misunderstanding of the coonomic purpose of industry, which is to contribute to human welfare. Labor should be constructive, not destructive to the one employed. Never be tense; a few morests one. A short time ago I took a long motor trip with a friend who never once relaxed or leaned back in the very) comfortable seat; like the inimitable "Mrs. Wilfer" of Dicken's creation, she for days afterwards.

A water service yields large returns in conservation of women's health and strength. Only two and one-half per cent. of four hundred farmers visited in tap, bath and toilet in their houses Five per cent. had automobiles, 70 per cent. had pianos, and 22 per cent. had gasoline engines. While it is well that so many possess sufficient musical inerest, it is regrettable indeed that 39 out of 40 have not installed the water more in conserving women's health and strength, in creating greater home com-

are centered there. My friend has kept her outside interests. She still readt
the latest books and dresses modith and on meeting her one can say with mofis sincerity than is usually the case, thore well you are looking.
striving after that unattainable to avoid which some one else achieves buthing to brighten the spot where we but try make this world a little better for and passing through by making our homes 'The resort of joy and peace and plenty,
where, Supporting
friends and supported, polished And dear relations mingle into blise."

## Hope's Quiet Hour.

The Glory in the Midst. For $I$, saith the Lord, will be unto her: walo in ire round about, and will be the
glory Yea, every pot in Jersualem 2:5. Judah shall be holiness unto the Lord

As flames that consume the mount Thy men of renown show forth men of renown show forth Th
might in the clutch of death Down they go into silence, yet the trump of the jubilee
wells not Thy praise as swells it the breathless pause of their breath.
What is the flame of their fire, if so may catch the flame
What the strength of their strength
The flaming fire of their strength is the
In Whom their death is life, their silence
utters a song

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\mathrm{CB}_{\mathrm{CRI}}
$$

When the Holy Son of the King walkec among men on the earth He veiled His glory under common flesh. Once, upon he Mount of ransfiguration, the glory three disciples who were eye-witnesses of His majesty. St. Peter was so im. pressed by what he saw that he pleaded for a continuance of the visible glory, He wanted to stay right there on the mountain and have nothing more to do with the petty trials and duties of common
life. But his Master saw more clearly. His ideal of greatness was not a shining face and glistering robes of white, but a life of service. Even during that vision of shining beauty He was earnestly
talking about the battle with Death which talking about the battle with Death which
lay ahead. The eager disciples were lay ahead. The eager disciples they had seen until after His death and about supernatural signs. If men could be won to follow Him by such an outward sign-though they were blind to the beauty not make them better allegiance therefore He did not want it. And so the Master led His unwilling apostles away from the supernatural
to the men and women who needed sympathy and help. The opportunity of helping a sick boy, and cheering his had remained on the mountain the chance to serve would have been missed. is the glory in the midst of the Golden City. As St. John knew well, the glory of God lightens it so that there is no
need of the sun, and the Lamb is the Lamp in the midst of His Church, so that the nations can walk safely by the light We are too far away to be greatly impressed by the visible glory which hone out on the mountain and over visible glory, which lighted up the words nd deeds of our Great Example, shines out more and more grandly while the It idst of us the our King is still in the our kitchens is transfigured and glorified. ransfigured and glorified. If we had lear vision we should see that upon the
ells of the horses is inscribed "Holiness If the hammer that is consecrated by

| forts and in elevating the general tone of the material side of living than installation of water service. There are a number who have not even a kitchen sink which the handy man himself could install in a very short time. <br> The hydro power has not come into common use yet on farms, and is still very expensive. In the meantime, a small gasoline engine with attachments for washing machine and churn is most convenient. Of course, with water service, that power might be utilized to run the washing machine. <br> A telephone extension in the kitchen saves many a woman's nerves; she need not leave her food to burn while she runs to answer the insistent ringing of the bell the stair landing or in the front hall. A coal oil or gas stove is fine for summer use. One has not the constant worry of keeping on a fire, and as soon as you have finished using it, your fire may be turned | out; and the kitchen is cool and pleasant. Why is it comparatively few housewives know the wonderful possibilities of the fireless cooker? They may be made at home or purchased ip the shops, and they spell economy of fuel, and a very high degree of kitchen efficiency. Many foods are improved in flavor by the slow working of the fireless. <br> I have in mind a friend who accomplishes a great deal with the minimum traste of strength and energy. Her home is not a new or modern one; but has been changed considerably for convenience and comfort. There is a back stairs which saves hundreds of steps and much wear of the floor and dusting of the glistening banisters and stair steps of the front stairs. They have not "Delco" lighting or steam heating, which is a dream she hopes to realize sone da ; but a good coal heater with well-ar anged hot-air | pipes and registers keeps their sleeping rorms sufficiently warm in winter. In the basement is a good laundry with stationary tubs and power machime. A trips between cellar and dining-room. There is not one back-breaking carpet in the whole house. On the parlors and guest room are pretty rugs, the other bedrooms have either oilcloth covered or finished floors, while kitchen and diningroom are covered with sanitary and serviceable linoleum. This resolves the spring housecleaning down to the least possible labor. The furnishings are chosen for comfort and serviceability rather than display; there are no fussy drapperies, or mantels covered with bric-a-brac, but the pretty china is in built-in cupboards or china cabinet. The general effect is certainly most atvisit, and all children's greatest pome to |
| :---: | :---: | :---: |

August 28, 1919
could be found, it would be a treasure worth more than all the gold and jewels of earth. But a far grander thing than that is ours, if we will only recognize
the truth. He Who consecrated that the trer hammer long ago, is beside, you, ready
to lay His hand on your hammer or whatever instrument you are using.
Unless I felt that His hand guided my pen, 1 should not dare to write.
Let us try to see the invisible glory Which in 'our midet tet "we quick Christ in our midst. Let us quick
to see His likeness in humble men and women; instead of looking only at the outside veil and finding fault with little
surface peculiarities of look or manner.
"A woman said, 'She disappointed me I'd seen her picture, read about her work,
Looked forward so to meeting her-and To find her just a frowny little thing With such a bonnet!

Thus a journalist
She wasn't worth my time to interview Nothing to see, nothing to say for print.
A poet mused. ${ }^{\text {'How simple and how }}$ pe soul that speaks in every word and That knows itself the priestess of God's And gives for love what others grudge for praise!
What courage and what patience in her What music of true feeling in her voice. How every feature kindles with the light That burns upon the altar of her faith
How beautiful, how beautiful she is! '"

One person looked only at her body another glanced casually at her and was
disappointed because she did not -as the saying is-"keep her best goods in the front window." The poet saw the woman
herself, and was thrilled with the beauty of her spirit. So it was said of the Messiah: He hath no orm nor comeliness and when we shall see Him, there is no
beauty that we should desire Him; and yet-if our eyes are anointed with
spiritual eye-salve, so that we see through the visible veil the in inisible glory-we say of Him: "He is altogether lovely"
Where one said, scornfully: "Is not this
ane open said: "Thou are the Son of God." We are only too apt to be blinded by outward things-the things which only last a short time-and so miss the in-
invisible things which are eternal. Let us try to discover and value highly the writer, speaking of the parable of the
Laborers in the Vineyard, says: "While men are applauding the great workers who ostentatiously wipe the sweat from
their brows and pant so that you can hear them across the whole field, God is regarding an unnoticed worker, who
feels he is doing little, who is ashamed that anyone should see his work, who bitterly regrets he can do more, who could not name a coin small enough to pay him, but who is perfectly sure the Master he
serves is well worth serving." Whe There is One in our midst Whose eyes
are as a flame of fire, searching every are as a flame of fire, searching every
corner of the heart. He looked through he outward appearance of the fierce Saul of Tarsus and saw a new man-
humble, loving and trustful-ready to be born in the likeness of the Apostle ee only a woman who was " $a$ sinner", He saw penitence and love covering a
multitude of sins. When men saw religious" people, with outward lives
espectable and "piety", displayed like espectable, and "piety" displayed like
Lbanner for the public to admire; the
Lover of souls looked through the whiteWover of souls looked through the white-
washed surface and sadly noted the
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
> just a few sweet smells for the Hospital.' 1 am sure Christ accepted the gift grateBethany. It is always a joy to offer
Him a gift, even though no one else may

THE FARMER'S ADVOCATE
187
joy as it is shared with our Friend
Suffering will be glorified if the eyes
the suffer the sufferer are lifted to Him Who en dured so gloriously the shame and agony of the Cross. Work will be transforme from drudgery into willing service,
the worker can feel the the worker can feel the touch of the
Divine omrade-the Workman of Naz areth.
Because Christ is the Door into Heave -and the Door of Heaven is always open me can step actross the threshold any hum-drum. It ised not be dull an to see the glory in our midst our loss if we turn our backs on the Light of the world and choose to walk in gloom Bishop Brent says: "We must enter heaven and sojourn there a space ever day in order to understand the meaning in the world the work that lies before u but a step away." Will you take that step now? Dora Farncomb

For the Needy
A "Friend" sent five dollars with the some poor woman a holiday in the to give "Irene" sent three dollars and " "Reade of the Advocate" (Guelph), sent two dollars. Part of this money has already gone out to help three widows with young children; put the ouiet Hour thanks go out also to the friends wh. My sent papers and mazines for the hav in. You certainly keep my life from being hum-drum. It is pleasant to be a carrier of good things.

Dora Farncomb

## The Ingle Nook

Rules for correspondence in this and other
Departments
Kindly
 With communcations. If peni name is also given
tere real name wio not be published. (3) When
enclosing a letter to be forwarded to anyone, phace enclosing a letter to be forwarded to anyone, place
it in a stamped envelope ready to be sent on.
(4) Allow one month in this Depertent
answers to questions to appear.]

DAR Ingle Nook Friends:-Again, to-day there is no especial heading eason that the talk will roam from one topic to another, just as it would were we sitting together over the tea-cups.

A week or so ago a writer in our paper accomplished if all work that would be be led to see the beauty in the country. Of course I believe that a very great many of the country folk do see and love fields, and woods, even though they do not say very much about it; yet what "Cheero" said is perfectly true-there are always some to whom all this is country A far of wheat nothing but the hard labor it has meant and the money it will bring a bank man may see in it nothing but the extra cash that may be deposited in his depends much of his success. The pits epends much of his succen pity the real pleasure that comes of loving the beautiful golden and brown color, and watching the ripples of light and shade that sweep over the ready-to-cut
field as it billows before the breezeheld as it billows before the breezeing there, so gracefully beneath the blue sky, while the border of green trees looks on from the roadside. - And the worst of is to those who love beauty, they can never pass it on to the one who has never Rubbish! Buncombe!"' he is likely to exclaim, to himself if not openly, and
there the matter ends. He is really missing something exquisite, but he does anything exquisite-and so cheaply gotthis is one of the great works that any mother or any teacher can do for the chidren-seach them to see and feel The other day, looking out of the
The window of a radial line, I wondered


## $A_{\text {Ima a andes coubice }}$

Canada's National Residential School for Girls combines all the advantages of health, culture, and practical and aesthetic training.
Thorough courses in Music Art, Oratory, High School, Business; omestic Science, and Superior Physical Training.
Opens its thirty-ninth year on September the fifteenth, nineteen opred and nineteen.




The Gifford Fruit Sizer
FOR APPLES, PEACHES, POTATOES AND PEARS Simple in construction. Made of strong material. Carry it any place
Weieht, 200 Ibs. Capacity, operated by hand, 300 bbls, in ten hours. 1 Im . Weight, 20 ibs. Capacity, operated by hand, 300 bbls. in ten hours. Im-
poosible to bruise fruit tit does not drop. Gives cheek measure on el ery
apple. Gnaranted to size frus to Mr. Indell Waddell, Huntingion, Que saystaction.
"My crop of 1,000 bas rels apples was ha
the Gifford Sizer. 1 packed over 100 barrels per in one-half the time with spleadid looking pack and increased prices. I can sell more of your ma-
chimes here."

Write to-day for illustrated booklet and prices. Agents wanted. R. J. LOWREY, Canadian Distributor St. Davids, Ont.
is always beautiful, no matter what its coloring may be; and so are the trees, and the grass, and the fields whether in
full growth or shorn, or ploughed. Al ways. the blues, and grays, and greens, and fawns, and browns, of Nature are perfect and infinite in their shadings as morning passes into noon, and noon into
evening and evening into night. When evening, and evening into night. When
one has learned to see shadous one knows that the landscape is never the same for
two hours in the day; in this lies much two hours, for the human mind delights
of its joy, for the in variety as the thirsty plants delight in the summer's rain. The farmhouses, too, look so peaceful, and some-
times the very small ones are the most times the very small ones are the most
interesting of all, especially the little new interesting of all, especially the little new
"kitchens" put up all alone, with a kitchens put up all alone, with a
promising-looking blank wall left for future building. One is pretty sure a young married couple lives in these little new homes-perhaps a young man just back from the war, and the "slip of a
girl" he has chosen for his wife. One can imagine the happiness in the little can magine the happiness in the little
home, the planning, and the hopefulness. road at night one looks out of the the window to see beauty everywhere: great black clouds banking up over a deep, clear sky in which, yet, a few stars
twinkle; flashes of lightning in the distance; the tiny lights of homes out thus on my little trip I knew that many city folk might imagine thosesolitary homes out there in the night to be lonely
places, but I knew better, for I had places, but in knew better, for had
grown up in the country. Indeed to this day, although it suits my work to sider myself of the country rather than saying that I have not found many delightful people and good friends in
the city. Indeed I find human nature just about the same everywhere. City just about the same everywhere. City
folk and country folk are a million times more alike than some of them know. and city and country just need to come a little closer together to find it out.
They are coming closer, too, year by

To return to our "Nature" talk: 1o return to our "Nature" talk: I
once heard a prominent hydro official
state, in a speech, his wish that he might live long enough to see an electric., light at every farm gate. It would be very
nice to have one at each gate on dark nice to have one at each gate on dark
nights, but I fervently hope that, if such a time ever comes, the lights will be kept off most of the time. Imagine all the country roads dotted with little sharp points of brightness, hard on the
eyes, distracting to the nerves, blotting eyes, distracting to the nerves, blotting
out completely the deep blue circle out completely "the deep blue circle -of
the sky and the "infinite lights of heaven!" the sky and the "infinite lights of heaven!"'
There is a wonderful majesty in a "country", sky at night that leads one, jogs along in a buggy, or rolls along in a motor-car, looking up at the great, dark
dome all flecked with stars and banded by dome all flecked with stars and banded by
the misty wonder of the Milky Way. In the misty we never see the sky at all.
the city we
We never look night. Our little lights blot it out and keep us with our eyes downward when,
often, they should look up often, they should look up. I am afraid
it would be the same in the country if there were a light at every gate; but
perhaps, if such an arrives, the cost of electricity, will limit the use to the "pitch black" nights when
such a beacon might be a real comfort

## B

Y the way, a friend who read my
referendum "sermon" reminds me that I forgot a very important uses alcoholic drinks freely (still worse, a
woman) are mito likoly camped, with are likely to start life handi ceptible to disease, and a "born" craving This is a mos
after all, the children are the very most important asset in the homes and in the
world. Upon them. time, everything must rest. It is too
bad to handicap them in any way, arred surely upon the parents more, than
upon anyone else rests the responsibility of seeing that they do not start life
handicapped in any

## As the "questions" for the referendum are framed, those who are out-and-out for prohibition should, when woting

comes, mark in the ', "No" column for every question, marking a multimication
sign, not a cross. It seems pifling to

Foundee 1866
ballot marked other than with a muit
plication sign will be considered
1 OW, just to end to-day's talk: that, i thinges, I have noticed a wrinked that, I think, could be introduced in summer, with farm home during the suminger, Upon the distinct profit in labor saving. Upon the dining-table linen white oilcloth is stretched over plain tacked beneath, neatly, all aver and Upon this two runners about a foot and a half wide are placed, one lengthwise the other crosswise, and at the centre flowers is placed. These cross, a jar o crash, butcher's linen, brown "Hore of or Japanese towelling with a blue patter and are simply hemmed and run about with featherstitching or herring-bone They give a "finish" to the table-make solutely with the nuisance oway ab-table-cloths. In one cottage, ing up of the runners a large conterpiece instead bluebirds stencilled upon it took the place of the runners, and a doiley to match was put beneath each plate. The effect was quite good, but probably the runners would be more easily launderlaundering is necessary as most little muss goes on the oilcloth from which it can be easily rubbed off with a damp cloth, -Don't you think the idea good one? Jenv.

> Worth Thinking Over.
"When women do come into the Legislature they are going to alk for more help for the children than
ever before."-Mrs. Wm. Dawoson, Parkhill, Ont.

An idealist is a person who helps other people to be prosperous,"-
Henry $W$. Ford.
"Foresight is very wise, but foresorrow is very foolish: and castles are at any rate better than dungeons

Games for Socials
or M. J. York Co., Ont
crowd game we know for "Mixing" of slips of paper have written upon them names of characters, past or present even local characters, or inanimate "Wing Alfred the Ge.g. Queen of Scots"; Rockefeller;" "a rocking-chair;" "John D. pipes." One of these is pinned on the ars person present, the only arries the being that the person who arries the slip must not know what is on questions, tries to find and, by asking she is, the questions out who he or character as; "When did I live?" "Was I famous?" "Did I live in America?" and so on. According as each discovers his or her identity the slip is taken off. sociability is a game for promoting sociability is a guessing contest, as "Great Men of the War." "'one's nearest town or village;" "the articles in a kitchen,"-anything one chooses Questions about these are numbered and pinned on the wall, and the players $\mathrm{g}^{\circ}$ about with slips of paper and pencils, a prize and a booby prize At the close the two answering most and fewest of the questions. Of course the fun of the game will depend largely upon the character of the questions, which may four to suit by a committee of three or For instance, suppose and conditions. is "Our Village," some of the question might be: "What place has the bigorest peen-hole and the greatest number of secrets of office. "Whizz-zz-zz! Zip! Burr-rr-rr?" Ans.And so on.

To Remove Mildew
For M. K., Haldimand C., Ont.:dress try one of the following, each stain but may have to be repeated to be

Arrange portion and fine elted but ed parsle, epper, (oi

an with the. | or broth if |
| :--- |
| racker | nelted but are brown I have noticed a wrinhle :ould be introduced ? rrm heme during the dining-table lial linorver used. A A linen neatly, all over and aced, one lengt and ise, and hing and run abould while the herring-bone. nuisance of away ab. one cottage, instean

large ed upon it tool with beneath a doiley to
bee ite good, but probate..
 e, however, very little
ssary as ssary as most of the
ooilcloth from whin
bed think with a damp inking Over.
do come into the
are going to to
the children than
s. Wm. Dawson, Park. a person who helpo ery wise, but forelish: and castles are
ter than dungeons ter than dungeons

## Socials

know. for "Mixing written upon them rs, or or inanimate Great:" "Sonts ${ }^{\text {" }}$; presented, the only
the person hat the person only
not know what is
nbout about, and, by asking
find out who ns being who he or did I I live of "Was
live in ng as each discovers the slip is taken off.
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1. Mix soap and chalk together, os the stain and expose to the sun. 2. Mix 1 spoonful of salt, 2 spoonfuls sond the juice of a lemon. Rub into both sides of stain and leave the article on the grass, day and night, until the stain disappears. . Moisten the spots repeatedly with Javeler ; rinse well, then wash as usual If a closet is so damp that things mildew in it, place an earthen bowl full of quicklime, in the closet. The lime will absorb the dampness, sweeten and disinfect the place, and keep mince and bugs away, As otten as the lime becomes slacked be good to sweeten the soil.

Delicious Autumn Dishes. Stuffed Vegetable Marrowi or Summer Asparagus (also known as "delecata").lengthwise. Remove seeds and soft portions and let steam- or boil until almost tender. Sprinkle inside with a little salt and turn upside down to drain. Arrange to make up just about equal portions of chopped chicken and ham, and fine breadcrumbs to equal bulk of both. For a cup of crumbs, take $1 / 4$ cup nelted butter, 1 tablespoon each or chopped parsley, onions and fresh green or red salt to season. Fill the prepared squash with the mixture, adding a little cream or broth if it seems too dry. Cover with cracker or breadcrumbs mixed with melted butter, turn a little hot water into the dish and let bake until the crumbs are browned. Serve with hot cream or
brown or tomato sauce around the vegetable or in a separate dish.
Stuffed Baked Cucumbers.-Use large cucumbers. Wash, cut in two lengthwise, remove seeds, drop into bolling salted water and cook 5 minutes. like
out, drain, and fill with any mixture liked, cold meat, mushrooms, hard-boiled egg or left-over vegetable, mixed with a little enough to stiffen slightly, Place in pan with a cupful of stock, gravy or hot water, and bake rather slowly for nearly an hour. Serve very hot
Cream of Cucumber Soup.-Peel and slice the cucumbers and stew tender in through a colander and add an equal quantity of hot milk. Season equal pepper, and salt, and thicken with tablespoon each of flour and butter rubbed together. Add a little mor milk, if liked and serve with toast or biscuit for supper. If liked a little onion may
be cooked with the cucumbers.

$$
\begin{aligned}
& \text { De cooked with the cucumbers. } \\
& \text { Cucumber Sauce for Baked }
\end{aligned}
$$

cup grated cucumber, Baked Fish.-On saltspoon white pepper, 1 tablespoon each of chopped onion, vinegar, butter and flour, $1 / 4$ cup of milk, water or stock Cook butter and onion together until onion is tender and light brown in color place it (the butter) on stove, and blend the flour with it. When well mixed add gradually the liquid, stirring until smooth. Then mix in the salt, pepper vinegar and
cucumber. Simmer 3 minutes and serve

Baked Chicken.-Place slices of fat sacon, carrots, turnip and onions in a heat thoroughly. Put in the chicken and season. Bake until vegetables and chicken are brown, then add $11 / 2$ cups water, cover and cook until the bird is English Boiled Dinn ne-dish diner mayner. -This handy one-dish dinner may either be cooked on
the stove or in the fireless cooker It requires 3 lbs . lean beef, 1 small head cauliflower, 5 onions, 6 large potatoes, 2 carrots, 2 turnips. Choose nice solid meat, and put it in the kettle with a little suet fried out and very hot. Brown the meat all over to keep in the juices.
Tie the cauliflower in cheesecloth to preserve its shape and color. Wash and peel the vegetables. Add hot water to the vegetables are added. Then boil 10 minutes longer and remove to the fireless. and left in the done early in the morning on the stove 2 hours slow sim. .ooked do. For serving the meat may be placed in the middle of a hot plater and the vegetables arranged around, or the potatoes and caulililower may be served
vegetable diahes.

THE FARMER'S ADVOCATE

The Scrap Bag. An Economical Wrinkle. If you have any hem-stitched curtains, put at the hems, join the cloth thas worn hem with strong novelty braid. The appearance is good, and a new lease of life will be given.

## Making Shoes Last

In these days of high prices of shoes any treatment that will make them last shoes are dipped sey the soles of new hot mutton tallow they will wear muck longer. From time to time shoes that have to be worn out in dew-covered grass or wet fields should be well rubbed with melted tallow, the shoes being kept warm
during the process. This will beep during the process. This will keep out the dampness and make the shoes wear longer. Some people keep the soles of
shoes varnished with shellac, but shellac is not exactly cheap nowadays. Fine shoes should never be worn when they will decome wet, unless rubbers are put on to protect them, and while not in use they with paper put on- shoe trees or stuffed shoes quickly fill them with hory to dry oats from a small quantity kept on purpose. This will often prevent serious

Peeling Potatoes
the take away as little as possible of the potato when peeling, put the patatoes
into rapidly boiling water for about 10 minutes; then take out and, when enough, peel.

## Flavor of Tea.

An authority says that by keeping few pieces of the dried yellowish rind of an orange in your tea canister you can fragrance and taste of the more expensive grades.

Hemming Table Linen.
When hemming table linen rub the folded hem with a piece of castile or any other hard, dry soap. The needle will slip through the damask with greater does away with the kinking and knotting that often proves so annoying

## Floor Cleaner

Mix together boiled oil, vinegar and turpentine in equal parts, and apply to
hardwood or stained floors with a soft cloth. It prevents the dust from scat tering and leaves the floor clean.

## An Economy.

Save seed from your best cucumber squasi, milrrow, and from your bestshould be picked from clean, full, long pods, corn from the best ears. Lettuce radish and tomato seed may also be saved, as well as flower seeds of all kinds the plan, do not forget to plant a find beet, turnip, parsnip, carrot and salsify root, also a cabbage split for part of its depth. These will if well cared for

Fruit Stains on Table I.inen. Summer time, the season of fresh fruits and vegetables, brings new trials for the woman who prides herself in the apin spite of ererything , pearance. The following suggestions, of the Manitoba Agricultural College of the Manitoba prove hidipul: Remove stains before the regular washing begins.
Dilute acids and alkalis have no serious effect on linen, provided the abric is thoroughly rinsed in clear water.
Use the simplest methods first. Any Use the simplest methods first. Any mended for removing fruit satins from white table linen 1. Spread stained portion over a bow and pour boiling water on it from a
height so that it strikes the stain with force. Sprincle borax on stain and then apply boiling water. -Use Tavelle water 3. Javelle Water.- Use J avelle water solution and hot water in equal quantities
and immerse stained portion, allowing it to stand a minute, then rinse in oxalic acid solution and then in several clear

## SILO OWNERS, ATTENTION!

Farmers interested in a SILO ROOF, or wishing extra capacity in their present silos to the extent of 45 tons on a 12 foot silo, and more on a larger one, according to diameter should use the

## McElhone Hinge Silo Roof

The roof is hinged so men in the silo can open it ready for the extra silage in 15 minutes. There is also an adjustable an chor to hold the pipe at any desired height when the roof is open.

The great advantage of this roof is that after the silage is settled you have a full silo with a closed roof, thus saving all refilling

Another feature is that it can be sheeted and shingled, and even the ridgeboard put on while standing inside.

This extra space is the cheapest room in your silo.
For full particulars, write
JOHN T. McELHONE, R. 2 , LaSalette, Ont. Phone 604, Teeteroille

Enquirers please state County

Wholesome, Nutritious, Economical

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## BRANIFORD BINDER TWINE

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OMPARE it with any other twine

Uniformity, length, firmness, strength, No thick or thin places, No fussy, bunchy knots,
Compactly spun and twisted,
A clean, glazed surface.
BRANDS
Giit Edge, 650f Gold Leaf, 600 ft . Silver Leaf, 550 ft Maple Leaf, $\mathbf{5 0 0} \mathrm{ft}$
$\qquad$
BRANTFORD CORDAGECO. LIMITED BRANTFORD, ONT
 The ingredients have been subjected to hundreds of tests be fore accepted as suitable for a properly-balanced ration

You cannot give the same exacting care to the preparation of your feeds, so let Caldwell's be your expert feed mixers. Let your herd make good, especially while prices are high, by feeding them

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Successors to The Caldwell Feed \& Cereal Co. Limited MILLERS OF OVER 30 KINDS OF STOCK FEEDS
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s Horse Feed, Chop Feeds, Dairy Meal, Hog Feed, etc.

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## The "Home Comfort" Malleable Steel Range

For the past 20 years we have sold an average of 2,500 "Home Comfort" is found in scores and scores of homes-due in no small measure to the fact that one women user of it has recommended it to her neighbo
It is truly "Home Comfort"-a perfect baker, economical on its finish and in regard to numerous features, it is women's own
ideal-they have told us what they want.

Can now be purchased direct from Factory


Wrought Iron Range Co. of Canada, Limited knows.iwe. Toronto, Ont.

| A REAL COAL OIL <br> - ENGINE - <br> YEARS IN ADVANCE OF ALL OTHERS Plugs. No Magneto. No Wires. It is the perfect oil engine. Runs on coal $\qquad$ <br> the coldest weather. Its principle is purely mechanical. No electrical devices whatever to loosen and to get out of order. <br> The Hoag Oil Engin the farmer's real <br> are i <br> Dominion General Supply Co., Dept. F |
| :---: |
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## Cream Wanted

You will get a higher price for your
cream if you ship it direct to us. We supply cans and pay express charges both ways. Weight and test guaran-
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Write for Reference: Any bank, or The Royal
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nut Streets Branch, Toronto, Ont. Mutual Dairy \& Creamery
$743-745$ King St. West, Toronto, Ont. PATENT SOLICITORS
firmerstonhaugh \& Go. The old-established
Bank Patent everywhere. Head office: Royal
Elsin Suildings, Toronto. Het

The Windrow.
Sir Arthur Currie will be a guest the Canadian National Exhibition at
Toronto. He and Lady Curie will The guests of Sir Henry and Lady, Pellatt while in Toronto.
The Royal Society for the Protection of Birds is initiating a movement tion
use the former German fortress of Helo use the former German fortress of Helon
land as a refuge for birds.

The new Polish postage stamps show a portrait of Premier Paderewski, in
scarlet,

The British Government is offering prizes amounting to $£ 64,000$ for an safer types of machines.

In Japan the population increases by 750,000 a year, approximately. She has seven times the population of Canada
with less than one-twentieth of the with less
territory.

The British air liner R-33 is to fy from England to Cairo and thence to India An airplane flight around the rim of the
United States - 7,805 miles-i olan for the near future that will carried out by an American army bombin plane.

A report issued by a Commission of the Episcopal Church of New York recom-
mends radical changes, including the ins mends radical changes, including the ise
of a dipped wafer instead of the commot Communion Cup, and the elimination from the marriage ceremony of the word obey" for the bride and "with all my

Mrs. L. A. Gurnett has been appointed as Field Secretary of the movement to prevent the spread of tuberculosis in
Ontario. Her headquarters will be at the Gage Institute, College St., Toronito,

In celebration of his 70th birthday Sir William Osler, the famous Toronto of Medicine in the University of Oxford, Eng., was presented with two large octavo volumes of essays, contributed to by over 150 writers, his pupils, colleagues and friends in the British Empire and

## Smiles.

Cutting It Short.-"Don't be so longwinded in your reports as you have been "Wild West", railway to his overseer. "Just report the condition of the track as ye find it, and don't put in a lot of
needless words that ain't to the point. Write a business letter, not a love-letter." A few days later the railway line was report to the manager in one line: s. - Yours faithfully, -."-Blighty (London)

Patron Saints-Two sailors, an ,Irishman and a Scotchman, could never agree, and the rest of the crew had beeome One day "patron saints"' was the subje and the ...hman just a little. nothing "Who was the patron saint of Ireland?" "Do you mean to say you don't know?" ""Why the said Pat. "Why, the holy St. Patrick". "hang your St. Patrick." In a towering rage the Irishman hesi
tated a second while he thought of something equally offensive, and then burst out with. "And hang your Harry Lauder! -London Tit-Bits.

A Toronto clubman returning home arly one evening recently, found bis $f$ five-busily engaged on the diningoom floor with his new box of cigars.
"What are you doing with those cigars?" "Oh, father," said the boy, pointing littered the carpet "we are pretendin that they are khaki soldiers, and we tool

Vindrow.

## urie will be a guee National Exxibtion


 jerman fortressos of f flo for birds

## sh postage stamp thor Premier Padermab

 Premiers hair cut.
ment is offering
$£ 64,000$ - 0 ition, in order to develos achines.
population increases he population of Canada
liner R-33 is to fly from o and thence to India, t around the rim of th t around the rim of the ar future that will b

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tt has been appointed y of the movement
ead of tuberculosis adquarters will be a
*     * his 70th birthday, the famous Toront V in University of Oxforc nted with two larg essays, contributed to s, his pupils, colleagues
e British Empire and


## niles

Don't be so longports as you have been
1 the manager of the way to his overseer. don't put in a lot of tter, not a to point. the railway line was
the overseer wrote his

## Accts 28, 1919

THE FARMER'S ADVOCATE.

## Fruits of the Month.

Spiced Pears.-Seven lbs. hard pears ginger root, 1 lemon, 2 oz. stick cinnamon 2 tablespoons whole cloves., Peel, quarte and core the pears. Have made a syrup of vinegar and sugar with spices and
ginger root boiled in it for 10 minutes ginger root bolth add the pear and grated lemon rind. Cook until the pears are soft. Remove pears from syrup and pack in hot jars. Boil the
syrup down and when thick add to the syrup down and when thick add to the fruit in the jars. Seal while hot
Ps rester Pears,-F our lbs. pears, pare the pears and cut them in quarters dropping them into cold water to prevent discoloring. Make a syrup of the sugar and water, and in it cook enough pear to fill a jar at a time. and sea
Apple and Plum Jam.-Four lbs, crab crab apples into quarters, without peeling or coring, and cook in just enough wate to extract the juice. Strain through a double cheesecloth and add the suga until the sugar is melted, then add the plums and boil until thoroughly cooked Other apples may be used instead of the crab apples. Do not take off skins leave the cores also; as the pectin contained largely in cores and skins.
Canned
$P$ eaches. stone variety and be sure it is not free stone variety and be sure it is not over-
ripe. Pare, cut into halves and remove stones. Place the fruit, as each is pre-
pared, in cold water, and also use a silver knife for paring; this will prevent dis coloring. Next place the fruit in layers in a preserving kettle, pouring in a cupful
of water to prevent sticking. Sprinkle sugar over each layer, heat slowly, then increase to a boil. When clear can and seal. If preferred peaches may be done by the boiler or oven methods.
Blackberry Jam. Blackberry Jam.- To 1 lb . berries use mash the berries, add sugar and brow or shigh mash the berries, add sugar and cook
slowly until thick. Pour into plasses and when cold cover with melted paraffin. Plum Jam.-Eight lbs. plums, 6 lbs . sugar. Put plums and sugar together over the fire with just enough water to
start the cooking juil slowly as little as possible. ${ }^{\text {and }}$, slowly, stirring Crab Apple Mar
as for apple marmalade or jam. Clean the crab apples well but do not pare you may take out cores and seeds if you have no sieve small enough to remove them from the pulp. Just put enough
water to cook them soft, in a covered kettle. Press through a sieve or colander thick. Some poople prefer to cook the
pulp in a crock in the oven as it will cook the required time without being stirred. To the crab apple pulp, just ful of red cinnamon drops. Glaced Crab $A$ pples.-Select firm perfect iruit. For a peck take 5 lbs . granulated
sugar. Wash and dry the fruit, and put fruit and sugar in a stone baking
crock in layers, adding cinnamon and cassia buds to taste. Cover the jars with a tight lid or buttered paper and bake keep in the crock for some time if kept Using Raze Fruit.-A very few people cannot eat raw fruit with safety. To the
majority of people it is one of the quickest passports to good health, eqten when Most people are used to serving ripe
freestone peaches raw, sliced with sugar. freestone peaches raw, sliced, with sugar;
but not everyone is aware that plums and pears may be served the same way.
If cream is used at all it should be rich and thick; a mixture of milk may permit apples may be used for salad, mixed with onions, or with celery and nuts,
and a very mild dressing. Or they may take, more decidedlly, the place of
"fruit" at the table if simply grated and "ruit" at the table if simply grated and
mixed with custard, or sliced and dressed with sugar, cinnamon and a little lemon
juice. Ripe tomatoes (and tomatoes are also a fruit) are very good served with

Little Comforts

## Don't forget to oil the casters on all

 furniture as well as the door hinges. Toprevent rugs from curling upward at
the cornors side with glue and edges, size the under

## Current Events

C. R. R. H. the Prince of Wales is win
 St. John's, Halifax, Quebec (where be formally inaugurated the new railway
bridge, Montreat and To bridge, Montreal and Toronto, wher

The erection of a $\$ 5,000,000$ plant for the International Paper Co., has begun at Three Rivers, Ouebse
D. J. Taylor, farmer, of Wiarton, has been nominated as joint U. F. O. and U. F. O. of Stormont-Glengarry will run members for both Federal and Provincial elections.

Delivery of coal to France from the Ruhr region in Germany has begun
$1,000,000$ tons being shipped during August.

Ottawa reports that many Canadian are applying for divorces.

The U. F. O. of West Elgin and the Independent Labor party of St. Thoma met in convention and declared for

The young Shah of Persia under advic of Sir Percy Cox, British Minister, to Great Britain obtains a protectorate ove all Persia.
U. S.' cavalry has gone into Mexico in hot pursuit of the bandits who captured two American aviators and held them for a rans
lives.

The British Government Bill providing for the prosecution of profiteers passed its second reading by a vote of 251 to 8 . removal of general restrictions on imImperial Preference, reducing rates on a number of commodities produced in the British Empire, will go into effect. The commodities include preserved fruits, sugar, tea, mi lasses, tobacco, motor cars, musical instruments, clocks, wines, Commons that the British Government policy of the State purchase of mineral rights in coal. The War, he said, had cost England $£ 40,000$, 000 , and he urged greater production back to prosperity. On Sept. 1 he will address the League of Nations Union, thus opening a camtipaign to impress the movement for world peace,

The U. S. House of Representative has fixed on $\$ 5,000$, or 2 years imprison-
ment as the punishment for profiteering.

The U. S. House of Representative, on Aug. 19, by a vote of 223 to 101, passed
the _repeal of the Daylight Saving Bill over President Wilson's veto. "Day-
light Saving" will probably gasp its last gasp in October.

The non-Bolshevik army of the Northwest, where the British warships are
bombarding Kroustadt, has begun an bombarding Kroustadt, has begun an Soviet-forces southwest of Petrograd, Several Bolshevik battleships were sunk deet in the Gulf of Finland on Aug. 17. The Bolshevist frontier now runs from near Petrograd south of the Balck Sea including only Great Russia. In Siberia South Russia they have lost a great
tretch. The Bolshevist propaganda has failed completely in the Russian Baltic the Ukraine, and Hungar

Redd-The doctor said he'd have me n my feet in a fortnigh
Greene And did he?
"Sure. I've had to sell

## A LAKEVIEW BULL FOR PRODUCTION

Mr. Holstein Breeder, just review this two-generation chart of $\mathrm{ou}^{r}$

## DUTCHLAND COLANTHA SIR MONA

Canada's Greatest Transinitting Sire
Then, if there still remains any doubt in your mind as to this being Canadas greatest transmitting sire, write us at once for a copy of a four-generation
pedigree. Study the 7 -day official records of his daughters. Note the com pedigree. Study the 7 -day official records of his daughters. Note the combined 7 -day and yearly backing of his sire and dam; also his other ancestors
then ask yourself where in the world you can do better than selecting a sor then ask yourself whère in the world you can do better than selecting
of this great buill for next herd sire. We haye them of serviceable age.


We also have two bulls by Lakeview Lestrange Dutchland, a $38.00-1 \mathrm{~b}$ son of the old bull, as well as one by Findern King May
Lakeview Farms, Bronte, Ont.

## Each Tire Musテ̈ Be Safisfactory To You



Selling Tires on the basis that we do protect our cusTires you order from us you have the option of thoroughly examining them. If you are not satisfied with the quallty, workmanship and the great money-saving bargain these Tir

We ship all Tires express paid, C.O.D., to any addr aritime Provinces. be absolutely brand-new. We do not handle second hand or rebuilt Tikes.

It is through our policy of fair dealing and string more that value for the money that we now have thousands of satisfied customers throughout Canada.


All Other Sizes at Cut Rates-You Can't Tire Us Asking for Quotations. Clover Leef Nom-ollid Tiree, Fully Cutrarateod

Security Tire Sales Co.
TORONTO
SHORTHORNS \& OXFORDS
roan grandson of Right Sort, also ewes and lambs either sex and collie pups.
GEO. D. FLETCHER
RIN, R.R.


ew females (bred). get my young herdsirio goor
tion guaranted and prices rightes.
liet. Satiofes

## CANADA BOND

CORPORATION LIMITED TORONTO
OFFER A CERTIFIED

## Seven Per Cent. ( $7 \%$ ) Investment in

## Canadian Woollens, Limited

## WITH

Security values, confirmed by Price, Waterhouse Company and American Appraisial Company, and feature equivalent to BOND Cons
Conservative earnings over two and one-half times the amount of preferred dividends.

Attractive alike for large or small investor.
Splendidly financed, and housed with a thoroughly skilled and successful management

Talk it over with your banker.
DIVIDENDS QUARTERLY
Price $\$ 100.00$ per share with bonus of $25 \%$ of ordinary stock
Canada Bond Corporation Limited TORONTO
Wrile us for our list of Prooincial and Municipal
Securties yielding up to $6 \%$

## FARMERS' 'BUSINESS

For the past 54 years, this Bank has given particular attention to the business of Farmers.
We have helped many over the rough places, and have aided many more to the highest plane of success.
We are prepared to extend you every aid within legitimate banking practice. Come in at any time and talk over your affairs with us. You are always welcome.


Established 1884.


## TO FARMERS

A Savings Account is like a weed - once started you can't stop it growing.
Don't run risks by keeping money around the house. Place it in a Savings Account with this Bank, where it will always be safe.

## Interest paid at current rate. <br> IMPERIAI BANK"

152 Branches in Dominion of Canada
THE GENERAL ANIMALS INS. CO. OF CANADA LIVE STOCK INSURANCE SPECIAL RATES for Registered Catete By ACCIDENT Horses. Short OR DISm Insearance
at low rates tor Show
or water
 Write us for free prospectus
Address: The General animals in

## Financial.

## Forthcoming Loan.

 It is now a well-known fact that an-other war loan will be askea for in the near future, but the terms of the loa have not been announced. The rate of
interest, it is understood, will be $51 / 2$ per interest, it is understood, will be $51 / 2$ per
cent., but whether the issue will be marcent., but whether the issue will be mar-
keted below par in order to make it more attractive has not yet been divulged. The bonds will, no doubt, be taxable,
thus differing from the last loan which thus differing from the last loan which
was exempt in so far as the Dominion was exempt in so far as the Dominion
is concerned. The war has been fought is concerned. The war has been fought
and won, but the country must still and won, but the country must stan
carry on; if the country cannot carry on carry on,
the individual citizen has little chance. In-a recent address,-Sir Thomas White,
the retiring Finano, Minister threw some the retiring Finance Minister, threw some
light on the manner in which the last light on the manner in which the last
loan was spent, and the necessity for another. Mention was made of the peculiar situation following the armistice
when the Government adopted a policy of "carry on" in order to prevent a panic and an all-round demoralization of business on account of the uncertainty.
National undertaking, such as shipbuild National undertaking, such as shipbuild-
ing, improvement of railroads, etc., ing, improvement of railroads, etc.,
formed a part of the program to hold the country steady, impart confidence and retain the stability of all industries.
Continuing, Sir Thomas said:


Sir Henry Drayton.
"Then we have had thrown upon us the immense expense of demobilization. Until last fall we borrowed from Great
Britain in London, and that was a set-off Britain in London, and that was a set-off
to our advances to Great Britain here,
te the amount of money required by us to
maintain our troops in on the continent. We did not have to find the money here in addition to the
credits that we furnished to Great credits that we furnished to Great Britain.
They furnished that money to us in They furnished that money to us in
London, and to that extent it was not a burden on our financing here. But with
the bringing of the men here during several months past we have had to bear the expense of paying them until discharged,
and in addition to that we have and in addition to that, we have had to
find a large war gratuity, varying from two to six months' pay in proportion to not think the public megin overseas. I do large amount of money involved in that
transaction. It will involve a of some $\$ 130,000,000$ in war gratuities.
I am quite sure that no citizen of Canadn will begrudge that to the men who went
overseas of money, and I mention it so that you may realize how the proceeds of the last
Victory Loan have melted we have the soldiers' land settlement
scheme, which we believe will be of gent ultimate advantage to the country, and
by which advances vances being secured by property, real and personal. It is confidently hoped whole.

The ex-Minister of Finance then ex-
plained Canada's financial standing as
countries. More funds are needed, toip ever, and in this regard he said: II have shown that we need make no apologies for this loan. We are going to the people of this country and we are
going to offer them a security which great advantage to them. We belicti, will be a good investment. We want to make them realize that it is necessary for the purpose of putting the Dominion finances on a stable and sound basis to complete the expenses indebtednes to complete the expenses of demobiliza
tion, to furnish the necessary credit the marketing of our produce, and carry out our reconstruction program.'

## Markets

Continued from page 1542 . a very favorable position the first fo
days of tast week. Monday the to days of tast week. Monday the to day some wasched suesday and Wednco the top was $\$ 18.75$, with culls selli) from $\$ 14$ down. Friday the supply liberal, and prices showed a break $\$ 1.25$ to $\$ 1.50$, best lots going at $\$ 17$. to $\$ 17.25$, with culls selling downward from $\$ 13$. Sheep receipts consisted of ewes an while the first four days showed the bes
in this line selling from $\$ 10$ to Friday the outside quotation for these was $\$ 10$. For the past week receipts 9,300 head, as compared with 4,602 head for the week before and 4,150 head for the same week a year ago. Calves.-A red-hot trade was had on top veals last week, Friday's market being a record-breaker. Monday, Tuesday and moved at $\$ 24$, and Thursday a bid of $\$ 24.50$ was had for one bunch. Friday's
trade was uneven. Best natives trade was uneven. Best natives sola
from $\$ 25$ to $\$ 26$, and top for Canadiai from $\$ 25$ to $\$ 26$, and top for Canadiat calves was $\$ 23$. Under grades were stead
all week. Native culls sold up to $\$ 20$ Canadian throwouts went from sib: to $\$ 19$, weighty calves in fair flesh soldaround $\$ 15$, and grassy kinds ranged from $\$ 12$ down. For the past week receipts were 3,300 head, being against 2,791 head for the week before, and 2,000 head for the same week a year ago.

## Chicago

Hogs.-Heavy weight, $\$ 19.35$ to $\$ 19.50$; medium weight, $\$ 19.50$ to $\$ 21.75$; light
weight, $\$ 19.60$ to $\$ 21.30$; light lights weight, $\$ 19.60$ to $\$ 21.30$; light lights,
$\$ 18.75$ to $\$ 21.40$; heavy packing sows, $\$ 18.75$ to $\$ 21.40$; heavy packing sows,
smooth, $\$ 18.50$ to $\$ 19.25$; packing sows, rough, $\$ 17.50$ to $\$ 18.25$; pigs, $\$ 17.75$ to Cattle.-Native beef steers above $\$ 17$ and Westerns and feeders steady. Othec steers 25 c . to 50 c . lower. Best fat stock
and canners about steady; in-between cows and heifers unevenly 50 c . to 75 c . lower; veal calves steady; heavies lower: Sheep.-Market compared with a weel ago. Native lambs mostly 75 c . to $\$ 1.25$ Westerns Some in-between grades more. Feeder lambs 50 c 50c. to 75 c . Lowers Feeder lambs 50 c . to 75 c . up. Breeding

## Victory Bonds

Following were the values of Victiry Victory Bond maturing 1922,100 to 10018, Victory Bond maturing 1923, 100
to 1001 to $1001 /$; Victory Bond maturing 1927, 102 to $1021 / 4$; Victory Bond maturing
$1933,1035 / 8$ to $1037 / 8$; Victory Bond maturing 1937,105 to $1057 / 8$.

Cheese Markets.
Selleville, white, 24344c.; colored, 251/cc.;
St. Hyacinthe, Que., 25c.; Cornwall, 25c.
Mrs. Stuart Menzies, in her newlypublished "Sportsmen Parsons," tells an as a hard rider to hounds and a profound scholar, who was one day performing a christening ceremony. ciation of the aspirate her's faulty pronunout (writes Mrs. Menzies) whether the child's name was to be Anna or quietly, "How do you spell it and confidential whisper, an embarrssed ain't no schollard neither, replied, "Well. She was evidently

Foundep 1866
e funds are needed, tow regard he said:
n that we need make no sloan. We are going to his country and we are em a security which is of
to them. We believe it tvestment. We believe it ize that it is necessary of putting the Dominion table and sound basis, ur floating indebtednes,
expenses of demobiliza. expenses of demobiliza.
he necessary credits for four produce, and construction program.'

## rrkets

d from page 1542 .
position the first fou ek. Monday the top ; Tuesday and Wedres 3.75, with culls sellie Friday the supply wa Friday the supply wat
es showed a break of st lots going at e17 th selling downward from ts consisted of ewes and r days showed the bess
g from $\$ 10$ to $\$ 10.50$ ie quotation for thes past week receiptstich apared with 4,662 head
re and 4,150 head for year ago.
hot trade ,Friday's war had on Monday, Tuesday and pulk of the top veal one bunch a bid or n. Best natives sol and top for Canadio culls sold were steady ts went from $\$ 15$ to in fair flesh sold aroung
ds ranced from $\$ 12$ ds ranged from
ast week receipts
were against 2,791 head fo and 2,000 head for this

## cago

ight, $\$ 19.35$ to $\$ 19.50$ 9.50 to $\$ 21.75$; light heavy packing so ligh heavy packing sows, 18.25 ; pigs, $\$ 17.75$ to beef steers above $\$ 17$ eeders steady. Other wer. Best fat stock
steady; in-between nevenly 50 c . to 75 c . teady; heavies lower. ompared with a week
mostly 75 c . to $\$ 1.25$ etween grades more: o 75 c . up. Breeding

## Bonds.

 me values of Victory rring 1922, 100 to maturing 1923, 100 $y$ Bond maturine ; Victory Bond ma
## Iarkets



August 28, 1919
Questions and Answers. Voterinary

Chronic Contraction of Muscles, The muscles above the stifle of my are rather hard and appear to be sore, She stands with legs drawn forwards and steps short. Ans.-Give her $11 / 2$ pints of raw linseed of potassium 3 times daily. Bathe the parts well frequently with hot water and after bathing rub well with a liniment melladonna and tincture of opium, 6 drams acetate of lead and water to make a pint.
Fatility in Calf - Mültiple Abscesses. 1. Calf was affected with nervous frouble whe th fid could not control and then died.
2. Yearling steer had a large boil on lace last summer. I lanced it and allowed escape of a lot of pus. It then healed In the winter it lidtle a number of sores listless. It got some better but whem on grass it got worse and would not feed and a large lump formed on the thigh It is more or less bloated all the time. Ans.-1. It had congenital brai trouble for which nothing could have been
2. This is a species of blood poisoning It is doubtful whether it will beisoning treat. If you decide to treat, lance each abscess as pus forms and flush out the cavity 3 times daily until healed with a 5 per cent. solution of carbolic acid or one of the coal tar antiseptics.
Give it 3 drams hyposulphite of soda 3 Give it 3 drams hyposulphite of soda
times daily and feed well. If he will no eat keep up his strength by drenching with milk, eggs and gruel.

## Miscellaneous.

## Horse Fly.

What is the name of the fly mailed under separate cover? A.S. Ans.-The specimen received at this office is a large, blue-black horse fly
(tabanus). This rather ferocious insect (tabanus). This rather ferocious insect is able with its piercing mouth parts suck the blood, causing considerable pain.

Seeding to Sweet Clover.
Would it be satisfactory to sow sweet lover this fall for a hay crop next year?

Ans.-Sweet clover might be sown a fairly good stand might be obtained. We have never known of it being seeded as late at this, but very good catches have been obtained from the ripened lants on the pasture field.

Grease for Hayfork Rope. What is good material to put on a
bay-fork rope to prevent it from becoming hay-fork rope to prevent it from becoming ry and brittle? Ans.- The following treatment is into small pieces and quantity of tallow a clean vessel on a moderate fret wher melted run the liquid fat through a wire ieve into another vessel, in which mix With constant stirring one-fifth part (by
weight) hot linseed oil varnish, being careful that it is thoroughly incorporated aselis mixture add one-fifter s.applied to the rope and rubbed in ith a clean, woolen rag.

## Heaves.

heaves? Ans.-The common causes of K. K. are pre-existing diseases of the respiratory is not in condition when the animal of the muscles of the fagnk with each expiration, a short, dry cough, and dilated nostrils are well known symptoms. The disease is a permanent disorder, but may animaled by careful attention to the animal's diet. Limit the quantity of when working, give feed of horse frequently and looth hay, give feed of good quality, be taken little lime water. Care should be takn not to drive the horse fast after

THE FARMER'S ADVOCATE:

## Fall Financing

INCREASED Farm Production has the interest and co-operation of The Bank of Toronto at all seasons. In the Fall the responsible farmer who needs money to finish his cattle or hogs, to cover expenses of harvesting and threshing until his crop is marketed and paid for, to buy stock to feed and fatten, or to finance any other "turn over" on the farm, will be readily furnished with funds to cover his requirements.

Consult our local Manager whenever
THOS. F. HOW General Manager

## THEBANKofTORONTO



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Is guaranteed to be perfect in material and workmanship. Don't buy an un-
branded set of harness. Harness that is good enough for you is worthy of the branded set of harness. Harness that is good enough for you is worthy of the known and favored by deaters and users all over the Dominand Harness


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"The passing of liquor is going to $\mid$ more employment to professional musicia prove an immense impetus to music in at an increased wage. commercially." This confident and somewhat surprising assertion is made editorially by the Washington Herald, which "This impetus will reflect itself in a greater patronage of the concert stage, larger sale of musical instruments and

It is not just for the reason that for music-making devices, but to spend fact, that those of us who used alcoholic beverages in one form or another to get life, are the material of our every-day or the same purpose music to a degree "One of the mame.

## THE <br> MOLSONS BANK

Capital and Reserve, $88,800,000$ Over 100 Branches

This is the country of opportunities for the man with some ready money. Money is opportunity. Begin at once to save, and deposit your savings in The Molsons Bank. Interest at regular rate.

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 SIZES to euit your
opening. Fited
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liverg guranteed.
W) rite for Price Li
(Biti. Cut diown fo
comfort.
The HALLIDAY COM five-piece orchestras in many of the big but mployed.
ymphony of the big cities now have have not had them before. Music is one means by which we cal butet the material, for a time at leas borthout intoxication as in the cave

## Scotch Shorthorns

## HICKORY RIDGE FARM

THE HOME OF

## Pride of Escanna

A son of Right Sort ( (Imp.)

Although only a two-year-ole, Pride of Escanna is, by his get, proving himiself one of Canada's greatest young sires. Three of his get, two heifers and one bull (the oldest three calves sired by him) are included in my calf herd showing at Toronto, and the several younger ones at the farm are equally as good. Pride of Escanna, as mentioned above, is got by the noted sire of winners, Right Sort (imp.), and his dam, Novelty (imp.), was got by Newton Crystal and by bred A. T. Gordon.

In my sales list at home I also have one 15 months Clipper bull, got by Dalesman (imp.) and one 10 months calf, a Rosebud, got by a son of the Highland Agricultural Society winner, Lord Advocate.

In females I am pricing 8 or 10 good yearling heifers, a good lot throughout, and sired by such bulls as Dalesman (imp.), Gold Mint and Roan Prince, a son of Uppermill Omega. These are from our own breeding cows, including Clippers, Rosebuds, Nonpareils, Rosewoods, Roan Ladys, Missies, Mary Ann of Lancasters, etc.

LOOK US UP AT THE EXHIBITION
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WANT AND FOR SALE
Questions and Answers. Miscellaneous.





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 ${ }^{1} 100$ ACRES Farmers Addogate tond

Plums and Pears WANTED

Dominion Canners, Ltd., Simcoe, Ont, when writing advertisers Please mention Advocate

Failure to Improve Fences When I rented a farm in 1918, my the fences as there were no fences except the boundary one. He has not done so, my cows and horses rumning destroyed by The lease was drawn for the privilege of three. The landlord now wants it back, and has given me notice. I am getting discouraged at having so much trouble to keep my stock, compelled to pay the Ifeel it hard to be my crops are destroyed through when landlord's failure to keep his terms.
is Ans.-The notice from your landlord is ineffective-that is, you are entitled
to exercise the privilege provided by th Indenture of Lease of three years instea it is unfortunate that you did of fencing clearly, provided for in the lease. The Lessor's verbal promises are insufficient are not disposed to remain that you expiration of the year and, at same time
the Lessor is not in a position you to go, we would suggest that yo of the Lease and endeavor to make some

Line Fence and Fruit Trees. I have a nunber of fruit trees along
the line fence. 1. Can I go over and the line fence. 1. Can I go over and
pick the fruit on B's side?
2. Can I pull the 2. Can pull the branches over on
my side and pick the fruit? My trees are
shading his land. What is the law conhading his land. What is the law con-
cerning fruit trees near the line fence? Ans-1. Y. You should first request B
the deliver the fruit to Ans-1. 1. You should first request $B$
the deliver the fruit to you; and, then, if he refuses, or nexlects to comply with,

## CONSIGN YOUR

## Co-Operative Live Stock Shipments

To Your

## Farmers' $\mathbf{0 w n}$ Organization

Owned and controlled by the farmers for the use of the farmers. We specialize in co-operative shipping of Cattle, Hogs and Sheep. We are doing a business of over $\$ 1,000,000.00$ per month. We handle forty per cent. of the live stock business. Help us get the remaining sixty per cent.

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Own and operate stores at Seaforth, Cobourg, Warren and Toronto. We can handle all orders for groceries from our wholesale grocery warehouse at Toronto. Grocery list on request.

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All farm supplies in carload lots-Feeds, Coal; Oils, Roofing, Salt, etc.

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Co-Operative Company, Limited
130 King St. East
Toronto, Ontario

## FALL WHEAT

can be your most profitable crop-just add the " life-blood" of good fertilizing when seeding.

How would you like another 20 bus. per acre? wheat means that each hour of man wower employsful neighbor is doing. Thirty-bustel

## Counns Shur Gain Fertilizers

Seed down your Fall Wheat with
SHUR-GAIN" Fertilizer. There's She k-GAIN" Fertilizer. There's
the to success. Strengthen the
growth against winter killing and the Hessian fly. "SHUR-GAIN" has a
recordo of 40 years of Sind the
pounded pourded by experts of suo KNO KNO What
Ontario farms nees. Another $\$ 20$ to $\$ 50$ per acre might just as well be in your pocket. But we say, order
NOW. Delay may mean disappointment Have your "Shur-Gain" ready for seedling GUNNS LIMITED, West Toronto

| Division of Estate. <br> A being the owner of a farm estate makes a will. The registered will states C and D to have the estate, with the exception of two rooms which belong to $B$ as long as he lives. In after years $B$ gave up all possession of the said estate to C, leaving B's claim as A had left it in the will. A died and D signed off his share of the estate to $\mathrm{C}, \mathrm{B}$ to have the room as stated in the will. In later years B preferred city life and asked C what he would allow if he vacated the rooms. $C$ and $B$ valued the rooms, C to give the full value of the | basis of the will, which said they were to become C's at B's death. B having died without a will, does $C$ get back the money if it is there, the same as he would the rooms, based on the late will or would it go to B 's heirs? If C gave the money to the heirs should they feel gratified or insulted? J. B. S. <br> Ans.-1. C would get part of $\mathrm{B}^{\prime}$ s estate as being one of his next of kin. Such estate would include the money inquestion. The other next of kin would take the rest of the estate. It would, of course, all be subject to payment of B's debts, and funeral and testamentary expenses-also succession duty, if any. <br> 2. We should think they would fee gratified. |
| :---: | :---: |




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Shipments

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s for the use co-operative We are do per month. stock busi
rtment
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le all orders
quest.

Feeds, Coal;

## mited <br> nto, Ontario

## SEEDS

F.O.B. TORONTO

FALL WHEAT- Bass. free. (If 10 bushels
or more are ordered we offer at 13 c . per bush.
or
 Der bush. RYE-Bass free. Rosen Reye at
FALL Ry. Ry.
82. 60 per bush. Fall Rye, good sample, 82.00
$\qquad$
$\qquad$
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some choice shearling rams and ewes for
sale. Also some ram and ewe lambs.
Shakespeare, Ontario

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Individual Farmers' Threshers, suitable size to
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and save expense.
Write for free catalogue, prices and any infornation wanted.
THE ROBT.
CHE ROBT. BELL ENGINE \& THRESHER
COMPANY. LMMTED, Seaforth, Ontario.

THE FARMER'S ADVOCATE they command a much higher price than
those of plain breeding and lacking in
character.
4. While berry bushes may be planted out in the fall, the spring is generally
considered the best time for setting out considered the best may be planted in
the plants. They may be plom
rows six feet apart and from two to three feet a part in the rows.



TWO 40-acre fields of corn grew side by side. On one an International spreader had been used consistently for three years. The other had seen no manure for seven years.
That was the only difference between those two fields. One produced a matured crop running just over 80 bushels to the acre, the other averaged barely 30 bushels of soft corn. If both crops sold at the same bushel price, the fertilized field produced $\$ 2,000$ more than the unfertilized one.
Was that spreader worth $\$ 500$ Yes, because just scattering manure on a field will not accomplish the same results. That field of 80 -bushel corn was properly fertilized by a man who knows his business. He feeds his crops a balanced ration. He feeds just the right amounts at the right time and that cannot be done without a good, wide-spreading manure spreader. Deering or McCormick will do it. That is one reason why we sell so many of them.
It pays to study fertilizing, to know what to do and to practice what you know. See the local agent or write us for full information about our spreaders.

## International Harvester Company



The Bissell Double Disk Harrow


Both in-throw and out-throw. Gangs are flexible, and not too ong to fit uneven ground. Bissell Double Disk Harrows make splendid seed beds, giv-
ing the ground a deep pulverizing, leaving it smooth. There is a great difference in harrows, and we believe no harrow has ever been made as perfect as the Bissell
Double Disk Harrows. We Double Disk Harrows. We
make them in all sizes, suitable for small or big farms, for horses or tract
given. Full information and prices on request. make Test trials cheerfully Yout information and prices on reques.

You are cordially invited to call at the Bissell Exhibit. Toronto Exhibition, Aug. 23rd to Sept. 6th London Fair, Sept. 6th to Sept. 13th Ottawa Fair, Sept. 6th to Sept. 13th
T. E. Bissell Co., Limited, 10 Mill St., Elora, Ont.




Questions and Answers Miscellaneous.

Goats Where can I buy milch goats, and what Ans.-In our issue of August 21 ap-
peared an article on goats, which may ive information regarding which may
fanimals. The The To considered to be the leest milkers.
$n$ our issue of August 7 , one of the
reeders was advertising


## Partridge Tǐres

Demonstrators of what Really Good Tires Will Do


Made by Tho F.E PartridgeRuhber Company:LimiradGuelphont


Dutch clover 2 lbs., might be sown to the acre. Tall oat grass, meadowfescue and red top are sometimes sown, but the
seed is rather dificult to secure 2. It is very difficult to say what prices will be five years hence. Conditions

prevailing for the | been unprecedented. $\begin{array}{l}\text { However, unless }\end{array}$ Hew hat |
| :--- | production is considerably increased and

the price of the price of farming utensils, clothing, that the price of live stock not likely Faulty Clutch Band.
My car runs excellently on high gear,
but when thrown into low ierks and jumps when the clutch is beginning to
take hold. ast winter and three new liners of wands put in the transmission. What
ones you are using are to hard. There is also the possibinility are that hard. There too much back lash.

Disinfectants in Septic Tank Is chloride of lime harmful to the anganisms in a septic tank? Is there tion in the toilet? Ans.- It is not advisable to use much of the chloride of lime, as there is a
tendency for it to destrov the beneficial organisms in the tank. We toubt if it would do much harm, though if used in limited quantities for the purpose you

Tiger Swallowtail Butterfly. What is the name of the enclosed
caterpillar? Ans. The grub received is the caterpillar of the beautiful Tiger Swallow-
tail Butterfly, and is, of course, perfectly

Aügust 2


Sidelights on Profitable Dairy Farming.
Continued from page 1537.
cardinal principle that characterizes operations on this farm is the use of banking facilities to the fultest possibe extent. All loans are bank and all bills paid in cash local by cheque, even though a loan must be secured from the bank in order to do so. For the year ending April 1,1918, the farm survey credited this armertal capitalizaincome of $\$ 14,684$ on 116 acres. Of this $\$ 11,000$ was invested in real estate (including $\$ 3,000$ in building), $\$ 710$ in machinery and $\$ 2,829$ in live stock. Of mace 103 acres of tillable land, 80 acres were in crops, including 37 acres of oats, 14 acres of corn for silage, 16 acres of hay, 3 acres of turnips and io acres or apple orchared, and crops are 5 per cent. better than the average, while live stock exceeds the average in returns by 21 per cent. No crops were sold of milk to the val per cent. of the cash receipts. $\$ 100$, and
sold amounted to $\$ 694$, eggs $\$ 81$ miscellaneous receipts are to be added. Current expenses were $\$ 1,355$ and included $\$ 554$ for feed (coricentrates $\$ 450)$, $\$ 171$ for labor and $\$ 250$ for disinfectants. Hard work is implied by the of crops, and each horse 22.8 acres. Feed per cow cost $\$ 61.2$ as compared with an average of $\$ 69$ and receipts per cow in milk were $\$ 161$, or $\$ 58$ above the average. The herd consists now of 16 cows, of which the best 8 were raised on the farm.

A labor income of $\$ 2,712$ from $651 / 2$ acres of crops on a $100-\mathrm{-acre}$ farm, of which 90 acres are tillable, is the record of this farmer. The owner was for two years a farm laborer, and of 9 year's spent Crops are 10 per cent. better than the average and live stock 27 per cent., while 65 per cent. of the revenue, or $\$ 1,944$ came from dairying. Each cow showed recceipts of $\$ 130$ at a cost of $\$ 76.8$ for feed, ( 87.8 above the average). Live stock was hogs, and the remainder mostly, 2 ary cattle. Current expenses were $\$ 1,015$ (labor $\$ 150$, concentrates $\$ 384$ ). Capital invested shows a total of $\$ 14,873$, made up of real estate $\$ 10,000$ (buildings $\$, 588$, machinery $\$ 768$, and live stock fall wheat 6 crops grown consisted of barley and peas 20 acres, corn for silage 14 acres, hay 12 acres, mangels 3 acres, turnips 2 acres, potatoes $11 / 2$ acres, and
rape one rape one acre. Each man raised 47.6
acres of crops, and each horse 17.6 acres.

Farm "G."
This farm is also 100 acres in size, but with more waste land, having only 77 tillable acres and 58 acres in crops. It is an outstanding characteristic of eriner
farmer that his cows are his principal care about the farm, and this will perhaps explain some facts given later
The herd is an exceptionally well graded one, and the receipts of $\$ 222$ per cow at a cost for feed of $\$ 65$, or $\$ 4$ less than the average, stand out far above any farm we have to discuss here. Since 87 per dairying, it is not surprising that a labor income of $\$ 2,657$ was secured. The total investment is $\$ 14,225$, including $\$ 9,000$ in real estate (building $\$ 4,250$ machinery
$\$ 1,050$, and live stock $\$ 3,659$. Current expenses, including $\$ 560$ for labor and $\$ 730$ for feed, (all concentrates), amounted
to $\$ 1,805$. Cash receipts included $\$ 3,786$ or milk, $\$ 150$ for eggs, $\$ 749$ for live stock horse took care of only 12.4 acres of crops, Thite each man cared for only 25.7 acres. his farm hut never bought a cow for kept for about 20 vears, and calves are kept from only the best cows. The herd and a pure-bred bull. There were also 5 isted of 4 acres winter wheat 22 acres pats, 15 acres corn for silage, and 17

In some respects this farm compares with the one just described. It is 108
acres in size, with somewhat more tillable and cropped land, these figures being 95

## Wake up, Ontario!

## Let the Referendum Battle-Cry Be "No!"^"No!"^"No!"』"No!"

SINCE the announcement in the Legislature last spring that a Referendum on the Ontario Temperance Act would be taken this fall, the different temperance organizations of the province of Ontario have met together to consider what attitude they should take. The result has been the formation of the Ontario Referendum Committee, which comprises representatives from the organized temperance forces of the province and the temperance sentiment of the province outside of these organizations. The new Committee will conduct the Campaign. We are asking the voters of Ontario to vote "No" to all questions submitted on the ballot.

| The Referendum Ballot |  |  |  |
| :--- | :--- | :--- | :---: |
| AND HOW TO vote |  |  |  |

者 the Ontario Temperance Act, sale and distribution of alcoholic liquors for beverage purposes within the province were prohibited. For practically three years the province has experienced the good effects of this law. Its repeal would be a calamity. Any of the amendments would spoil it.
For the Temperance forces to win they must secure four "No" majorities. That is a majority for " No " on EVERY question. The Temperance forces will be
defeated if there is a majority for "Yes" on any of the questions. You must mark an X after each of the four ques tions, or your ballot is counted as spoiled.
A century of temperance progress in this province is at stake in the coming Referendum. The Ontario Referendum Committee earnestly and respectfully ask you to mark your X in the "No column after each and every question, as indicated in the sample ballot reproduced herewith.

## Ontario Referendum Cōmmittee

JOHN MACDONALD<br>D. A. DUNLAP

ANDREW S. GRANT
Vice-Chairman and Secretary
(1001 Ereelaior Life Bldg., Toronto)

THE BISSELL STEEL ROLLER


With three drums, and strong, rigid steel frame. Some improvements are: heavy steel axle; heavy steel
plate; drums rivetted up to stand any strain; roller bearings which maee by mail, or ask your dealer. "Bone. genuine without the name Write for FREE Catalogue.

T. E. BISSELL CO., LIMITED, 10 Mill St., Elora, Ontario
come was $\$ 2,459$ or $\$ 17$ better than the average for the 10 best farms of this group, which included 68 farms. Capital
investment was $\$ 16847$ with $\$ 10,000$ in investment was $\$ 16,847$, with $\$ 10,000$ in
real estate (buildings $\$ 4,800$ ) $\$ 928$ in machinery and $\$ 4,944$ in live stock. This included 7 puie-bred and 11 grade cows, 4 pure-bred and 2 grade heifers, 2 purebred and 4 grade calves, one pure-bred bull, 5 horses, 2 colts, 10 hogs and 60 hhens. Live stock was 29 per cent. above the
average. Crops, which included 13 acres average. Crops, which included 13 acres
fall wheat, 6 acres oats, 23 acres oats and barley, 17 acres of corn for silage, and 12 acres hay were 23 per cent. poorer than the average, and furnished $\$ 644$ cash receipts. Current expenses were $\$ 1,762$, labor cost $\$ 516$, feed purchased totalled
$\$ 698$ (concentrates $\$ 354$ and roughaze ${ }^{3344}$ ) and receipts per cow from milk were $\$ 159$, from which $\$ 70$ feed per cow
is to be deducted. Each man cared for


See Central Canada's Greatest Show

DOG SHOW
There are classes for all recognized breeds, with $\$ 1,500$ in cash prizes, and many trophies donated by
Canadians and Americans
Entries cloee Sept
BABY SHOW


T HIS is a great holidey of instruction - education his opportunity to visit the N tion's Capital-of seeing what your neighbor is doing-of getting in touch with everything that is new -

A
Ample facilities have been pro vided to care for all visitors.
For full information, write to the

POULTRY SHOW
There are classes for all varieties of fowl, with about $\$ 4,000$ in prizes. Among the features is the egg-
laying contest, running from Sept laying contest, running from Sep
7 to Sept. 12.

AUTO SHOW
The Retail Merchants will combine in
Grand Shopping Week

OTHER ATTRACTIONS
Big live stock show- $\$ 25,000$ in cash prizes. Horse racing $\$ 5,000$ in cash prizes. Dominion Government Allied War Trophies. Canada's Greatest Pure Food Show. Improved Midway with a host of attractions. New York Hippodrome Acte. Airial and High-Wire Acts. Comedy Features. Great Naval Rald on Zeebrigge. Great Mardi Gras Carnival Saturday Night. Reg. Admission to Grounds, 35c.
CONTROLLER J. KENT, Pres.


## A Snug, Comfortable Suit.

When you slip into a suit of Watson's Spring Needle underwear, you feel "fitted" and comfortable. The action of the body is unhampered by a Watson garment which gives freely when the limbs are active.
All styjles, all sizes and in various fabrics for men, women and children.

## Watson's <br> NeEDE RIBEED <br> Underwear

August 28,
foect that are ceptible from frst point we
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farms in Onta abor income " cess except in abor, and that the maximum and kept 15
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yet had an incr ng any in the we allow for th
ments and the feed and suppl apparently lar already given masis whas stead
Of the four fa here, farms "I I lave labor the bes happier usiness exper out told the w ecause he con armer of these
$\$ 201$ at a cost for feed of $\$ 104.1$. Liv stock returns were 60 per cent. above the average, and crop yield 45 per cent. above acres oats, $101 / 2$ acres oats and barley, 14 acres corn for silage, 5 acres hay, 1 acre
annual pasture and Current expenses were $\$ 643$, with $\$ 21$ for labor and $\$ 179$ for feed. No crops were for 34.9 of the $351 / 2$ acres of crops himself. Each horse cared for 12 acres. Onily 2 acres were untillabie. . Capital invested totalled $\$ 9,303$, and included $\$ 5,500$ in chinery, and $\$ 2,335$ in live $\$ 497$ in mas owner was a farm laborer for 12 years and has owned this farm for 5 years.

Farm "K.
This farmer spent $\$ 50$ for labor and $\$ 6$ for feed during the year. He gege
4 acres winter wheat, 14 acres of mixed grain, $81 / 2$ acres of corn for silage, 8 acres He kept 10 grade cows and each returned $\$ 145$ at a cost of $\$ 90.6$ for feed, and had, besides, 2 horses, one brood sow and 40 hens. He sold live stock amounting to $\$ 191$, and crops to the value of $\$ 210$. Returns from livenses were only $\$ 34$. above the average, and crop yields 26 per cent. better than the average. Whth 48 out of 50 acres of tillable land, 38 acres were in crops. The total capital ingsted was $, 67,583$. Land and build $\$ 2,600$ machin $\$ 5,000$, buildings alone $\$ 1,490$. The owner has owned the fat 4 years and cared for 31.6 acres of crop
acres. Some Further Facts,
Having thus briefly enumerated the salient features of each of these farms showing unusually high labor incomes, we may well make an effort to draw some
conclusions or rather, perhaps, to bring conclusions or rather, perhaps, to bring
out by means of comparison, some further



Dates of Fall Fairs 1919
Branch of the Ontario Department Branch of the Ontario Department
Agriculture, Toronto, J. Lockie Wilso Superintendent
Aberfoyle $\qquad$ .Oct. '
Acton.....................................
Agincout (Scarboro)
Ailsa Craig Oct. 3 and 4 Ailsa Craig... Allsa Craig. Alfred.
Alliston..

Almonte. Alvonte........................................... 2 and 3 and 2 | Amherstburg...................Sct. 7 Sept. 29 and 8 |
| :--- |
| Ancaster | Ancaster.......................Sept. 23 and 24 Arnprior.......................Oct. 7 ${ }^{\text {A }}$ Aept. 16-18 Arthur.........................ct. 7 and 8

Ashworth................Sept. 26 Atwood...............................Sept. 26 and 23
Avonmore............Sept 16 and Avonmore....................Sept. 16 and 14 Ayton...........................ept. 16 and 17 Bancroft.......................Oct. 2 and 3
Baysville Baysville.
Beachbur Beachburg.
Beamsville Beaverton..........................Sept. 19 and 20 Beeton...................................... 7 and 8
Belleville................
Sept. Berwick...............................ept. 1 and 2 Binbrook......................ct. 6 and 7
Blackstock...............Sept. 23 and 24 Blyth............................................ 22 and 23
Bobcaygeon............ 26 and 27 Bolton..... Bonfield Bothwell's Corners Bowmanville
Bradford...... Bracebridge. Brigden. Brighton..... Brockville. ... Brussels... Burfordval..... Burlington Caledonia. Campbellford.. Castleton Cayuga......
Centrevill Charlton. Chatham... Chatsworth. Chelmsford Clarence Creek Cobden...... Cobourg.... Coe Hill.... Coldwater.... Collingwood.. Comber........ Cookstown. Cooksville. Delawar
Delta....

## Demorestville.

Desboren.....................
Dorchester Station
Drayton................ Dresden... Drumbo..
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Dundalk......
Dundalk....
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Dunpville...
Durham...
Earlscourt

## Elmvale.

Embro
Emsdale.....................
$\qquad$
Exeter.........
Fenelon Falls.
Fenwick.
Fergus.....
Feversham
Flesherton.
Florence.....
Florence
Forest.
Forest Erie........
Fort William
Frankford.

Founded 1860
Fall Fairs 191



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Oct. 2 and 3
Sept. $9-11$
Sept. 18 and 19

## Your Lame, Blemished Horses need attention now

Don't delay-it's easier and cheaper to treat blemishes before they become deep-seated. A few applications of ABSORBINE well rubbed
in act quickly and effectively without blistering or laying up the horse.
ABSORBINE is concentrated-handy and economical to use, only a few drops required at an application

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## THE ANTISEPTIC LINIMENT

is used by successtul trainers, breders and horse owners the world over-
it has increased the working and selling value of thousands of thorses helped many horses break records on the track, and incidentally has made,
money for its users. ABSORBINE itself. has a record of twenty-five years' service in producing successful results

WHAT USERS SAY



## USE ABSORBINE

to reduce bursal enlargements, bog spavins, thoroughpins, uffs, shoe boils, capped hocks, swollen glands, inflitrated parts, thickened tissues, rheumatic deposits, enarged veins, painful swellings and affections; to re ruptured tendons, ligaments or muscles; to strength en any part that-needs it.

ABSORBINE $\$ 2.50$ a bottle at druggists, or postpaid upon receipt of price.
W. F. TOUNG, Inc. 258 Lymans Bldg., Montreal, Canada.

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 Veterinary Remedy HAS IMITATORS BUT NO OOMPETITORSISAFE, SPEEDY AND POSTTIVE
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DIPHTHERIA, DISEASRS, RINGBONE
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LAMBNESS FROM
QUARTER CRACKS,
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POLI EVIE,
REMOVES
BUNCHES of
BLEMISHIS,
SPLINTS
SIRAINED TENDONS.
SAFE FOR ANYONE TO USE



The Acoepted Stamilard VEIERIMAMY REMEDY Ahvays Rellable.

Sure In Rocerifio.

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## Sole Agente fom the Unifed Staites and Oamada.

The Lawrence-NIIllamms Co. TORONTO, ONT:

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KELMSCOTT ACrobat 4 Owned by R. W. Brod And

The Kelmscott Herd of PEDigree milking Shorthorns, Flock of Oxford Down Sheep and Stud of Shire Horses

Robert W. Hobbs \& Sons ochlade,
England Gloucesterahire,
SHORTHORN CATTLE
One of the oldest and largest pedigree herds in
xistenoe Milk, Flesh and Constitution studied.
Disty Daily milk records kept.Numenous prizes won fo
inspecton milling trials and in butter test
The Gold


 test huts and bulls have passed the tuberculii
tuit all buyers bull calves on sale at prices to OXFORD DOWN SHEEP The fick was established in 1888 and consists
of from 1.00 and 1.250 registered Oxfords . Num-
erous
 rize was taken for a single Ram Lamb awn first Ewes always on sale.
R. W. Hobbs \& Sons are breeters of high-class

TELEGRAM HOBBS, LECHLADE
Inspection Cordially Invited

## HERDSMAN

Accustomed to Holsteins; mus
be experienced be experienced in test work and
understand feeding. Apply JOSEPH KILGOUR Sunnybrook Farms, North Toronto

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deliveries away behind Write for prices.
cars baled shavings f John
SEEDS WANTED
Timothy, White Blossom Sweet Clover. If any best price F . O. B. your station
TODD \& COOK Seed Merchants, Stouffillle, Ont.

| Balmedie Aberdeen-Angus Nine extra good youns bulls for sale. Also females THOS. B. Al axoses iniont |
| :---: |
| For Sale-Four Berkshire Hogs Three months old. <br> W. J. MAHON, North Wakefiel |
| For Sale Registered Jersey cow ${ }^{6}$ ytit is a fircteclass che and will be sold drayl on LORNE LIPSETT, r.R. No. 1, Bolton, Ont |
| Elm View Oxford Downs <br>  Bruce A. McKinnon, R.R. 1, Hillsburg, Ont |
| Please mention Adrocate |



1854

Maple Lodge Stock Farm
Shorthorns and Leicesters 1919

## Brown Swiss Cattle

Learn from our exhibitors what great producers of milk, cream, butter,


| Ontario Hereford Breeders' Association |  |
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BRAEBURN SCOTCH SHORTHORNS 150 Head 100 Breeding Femalé have at present twelve young bulls that are now nearing serviceable age. The majority are sifed
by my present imported herd sire, and we guarantee them as good individually as the get of any other
one sire in Canada. They are one sire in Canada. They are nearly well roans, and are priced to sell. Can also
cows in calf to Nero of Cluny (imp.) Brantford 7 miles. Oakland 1 mile. L. E. N. Electric R.R. Cars every hour.
Plaster Hill Herd Dual-Purpose Shorthorns
ip to 12,000 lbs. 15 cows and heifers heavy producers mostly all in alf to Green Leaf Record 96115 or Dictator whose two nearest dams ROSS MARTINDALE CALEDONIA, R. R. No. 3, ONT

Grand River Dual-Purpose Shorthorns

HUGH A. SCOTT
CALEDONIA, ONTARIO.

WALNUT GROVE SHORTHORNS AND OXFORD SHEEP

August 28, 1919
The Biologist and the Breeder.
The first and foremost law of breeding is set forth in the three words: "like begets like." This law explains why other. It explains why the progeny of a bull or stallion resemble each other closely If no other laws of breeding were in operation, we would scarcely be able to but other bews of breeding do onotere and their operation cause the most closely related animals to differ from each other in many particulars. The variations in the important law of breed ing just mentioned give to the breeder types, exist. The theory of heredity explains why Percheron horses resemble each other each other; it explains why some strains of cattle produce twins with great regularthe ability to produce large the abiry to produce large quantities
of milk. It also explains why bad characteristics (such as the tendency to tubercolosis) are passed on from parent to offspring.
All the laws of breeding are interesting to the breeders of animare. Consciously or unconsciously, the breeder of animals
obeys or disobeys their warnings. When the ambitious breeder speaks proudly of the prepotency of his bull or stallion, he is merely paying homage to the genius the celebrated English scientist, Chas. "like begets like" and who did that than anybody else to encunicate the many laws that govern breeding. When a man refuses to breed his mares to
stallion that is unsound, he is unconsciously testifying to the stability of the thcory Darwin propounded this law. In at empting to give a scientific reason for parents, he assumed that gemmules which retain the characters of the original ody cells, are given off by every cell argued, all fused to form the reproductive aracterictics are transmitted to the offspring through the reproductive cells. challenged by many scientists. Weismann and Galton brought forward the of cells involved in the structure of the eproductive germ cells, the one being
he origin of the body, and the other being for the sole purpcse of developing
the
reproductive germ-cells. This would mean that a change in an animal unless it originated in the cells devoted transmitted to the animal's offspring. These conflicting theories occupied he artention of biologists for many
ears. They brought upthe very practical question: "an acquired characteristics
be transmitted?" If a bull, through caremord in size feecing, is greatly is calves reflect the improvement wrought in him by human hands? Will an ordinary
horse, which, by careful and continued raining, has developed extraordinary to his foals? Many biologists answer mphatically "No!" Acquired characterOne great scientist puts it thus: "It
is probable that there is continuity of the (the body), is nothing but a dwellingshelter and nutrition as it passes from the scientists explain variations then? from experience that a calf sometimes differs from both his parents. We know inferior progeny. We know that horns sometimes appear in a Polled breed.
How do the biologists explain these hings? Searching for scientific answers pound two theories. The first thing that and direct action of the immediate on the germ-plasm,"' and the second being Both theories are accepted by most Variations may be caused by irregular-
ities in the process of cell division Among the animals, the new individua is the product of two parents. It must
therefore differ from either of its parents,

THE FARMER'S ADVOCATE.
563

## SHORTHORNS, CLYDES

 WILLOW BANK STOCK FARM
SHORTHORN CATTLE and LEECESTER SHEEP. HERD ESTABLISHED 1855 - FLOCK 1848
 Dual-Purpose Shorthorns ${ }_{\text {- }}^{\text {neard }}$ neat dams by Dominator 106224 , whone two


WELDWOOD FARM, Farmer's Advocato, London, Ont.

 SPRUCE GLEN FARM SHORTHORNS JAMES McPHERSON \& SONS DUNDALK, ONTARIO



ROBERT MILLER, Stouffville, Ont., Has EIGITT of the best young buls that he has owned eral cows and heifers, some of them witt calves at foot, others in calf to Rosemary Sultan the Cree
Champion buill at head of the herd. ,

## GRAND VIEW FARM SHORTHORNS

 R. O.P. Dual-Purpose Shorthorns - milk headed by Brant Heco 1123223, with goon 108683, with record of 11,862 lbs. milk, 131 libs. fat in one edear. Offering two grandsons of this cow.
eight and nine months old, whose damm wiil have good creditable records. Newcastle Herd of Shorthorns \& Tamworths $\begin{gathered}\text { for Sale - } 5 \text { choice bull calves } 5 \text { t } \\ 8 \text { months } \\ \text { old, }\end{gathered}$
 Pure Scotch and Scotch-Topped Shorthorns of the bave several ochoce to young bull Prvice. Two are by Rapheal (imp.). one by Right Sort (imp.). one by Sittyton Selection, and several


Messrs. A. J. Hickman \& Co. Haloo Grango, Brackloy, England aleto of Exporters of all breds of stock, dratt horee., beet
catle and show and field ohee are Cotle and sow and beld sheep are specialite. than in any outemported atock throush uy cheieper
enouiry aty once to that wit we hope bet your


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Beaver Hill Aberdeon-Anguu and Oxford to 20 months. Femeales al anges. Shearling rams alex. McKinney, R. r. No. 1 Erin, Ont. Dual-Purpose Shorthorns - A grandon oo



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We are offering a large selection in imported females with calves at toot or in calf. A few home-bred females, 19
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## WOODSTOCK COLLEGE

FOUNDED 185


Characters that the parents do not
possess. Reversicn denotes the apoear
ance in the offspring of characters which ance in the offspring of characters which
are not possessed by the immediate
parents, but which were possessed by the grand-parents or other near ancestor Atavism, on the other hand, refers to
the appearance of characteristics which belonged to very remote ancestors. If bad blcod has been introduced into herd, it sometimes pops up for generations tced horse was to appear, however, this
would be a case of atavism, as the original phenomena possible? cestors of an animal have an influence on that animal. Somewhere in every
animal's make-up there is a tracemay be infinitesimal-of all ancestors.
In the fusing of his characteristics, a variation may occur, and one of these
latent characteristics may become very prominent. The law of chance may be a characteristic.
Galton has shown, by mathematical investigations, that a child inherits, on the average 50 per cent. of his char
acteristics from his immediate parents 12.5 per cent from his great-grand parent 6.25 per cent. from his great-great-grandmeans, of course, that an animal may inherit characteristics however fain or dormant they may be, from hi
earliest ancestor. Every breeder stock applies, or misapplies, Ga
ton's Law of Ancestral Heredity. It times unappreciated correlation of the science of breeding and the science of
biology. Every pedigree takes on it biology. Every pedigree takes on its
real value when put to the test of Galton's ogic. The fatuousness of worshipping by Galton's Law of Ancestral Heredity influenced by such things as food, care and climate. To the biologist must eg given great credit for ascertaining the on plant and animal life. Vegetable seed will produce different plants in different soils. Darwin pointed out the fact that the wood of the sturdy English
oak is almost worthless when this tree is grown at the Cape of Good Hope. According to Darwin, the bull-dog quick leses his ferocity and grit when he is stock is in agreement with the scientist then he gives serious consideration to the acclimatization of his stock:
Food controls an animal's size, and it also lengthens or shortens the journey owards maturity; as food, besides in-
reasing an animal's height, develops a the organs. Too much feed causes maturity, and uneven development. Bithings by experimentation.
How many breeders of live stock acquired by an adult individual is pos normal adult individual of the same race biologist fcr making the fact clear and all normal men can talk. Therefore one, some of the racial characteristics
have been more highly developed. The poorer bull possesses all the character
of the good one, but some of them are not so well developed. That is the
real cause of the difference between the
$\qquad$
anic investigator. The two are work-
ing out the same important problem-
the one working with the miscrosco

## MUST JERSEYS Daldwing

coticoor, que
Jerstys and Berkshires


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 from the Fiery Little Columbia to drive the Youngters' TrainELECTRICITY for hustling the big trolley car comes from mammoth generators. . . . The youngsters' train gets its snap and go from the Fiery Little Columbia. cases it is the same kind of electricity.
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## PROSPECT FARM JERSEYS

dam and two $g$-dams have R.
 aged $602.71 \mathrm{lbs} .85 \%$ butter, 9.450 .9 libs. . Mills Tat an average age of 1 year 11 months old. The dam

 We have for sale choice young cows and heifers, frest, or to freshen soon. Pure-breds and high-
grades. Ideal family cows. Cut the H. C. O. L. in two by buying a Jersey cow. R. \& A. H. BAIRD, New Hamburg, Ont.

> E WILL NOT EXHIBIT at London or Ottawa this vear. If you wish something to complete a show herd for either of these exhibitions we have it for sale. Our new importation sailed from Bristol on June 25 th. To make room for it we are offering special bargains in cows and young bulls. B. H. BULL \& SON. BRAMPTON, ONT.

Woodview Farm Herd headed by Imported Champlon Rower. winner of first prize with five
JERSEYS of his daughters on the island of Jersey, 1914, second in 1916, and again first


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## Cleanliness Essenti

The highest degree of success in capsule bresding can only be attained where perations, and where the temperature is controlled as outlined below. The germ cells, both male and female, are Bacteria are encountered in the operation, and precautions shoul be taken to destroy them as completely as possible. To this end all externat parts of the mares which may come in used should the hand or any instrument being washed in aroughly disinfected by lysol, or other good disinfectant creolin, should then be thoroughly rinsed in Thean sterile, warm water, as a little of the disinfectant coming in contact with the Good soap and hot water should be used freely on the hands during the operation if they come in contact with anything not entirely sterile. Nothing but clean sterile towels should be used
Where much capsule breeding is done, white suits kept well laundered will be found an advantage.

## Operating Room

A satisfactory operating room can be stall is an office, a stall, or a tent. If a should be stretched canvas or wagon cover to keep out all dust. The stall should be thoroughly cleaned and kept free from

## Examination of Mares

All mares whether they are to be bred With capsules or not should be examined. the stallion the danger of contaminating diseased mare. If diseased mares are not foal getter. Any discharge from the vulva should be looked upon with suspicion. The internal examination is most
conveniently made by use of a speculum. a metal or glass device which is inserted into the vagina of the mare till the neck The natural color of the lining membrane of the vagina is a pale healthy pink. If the examination reveals a red color, the congestion is likely due to an inconception, and the mare should not be red at that time. mined to see if it is closed. ${ }^{\circ}$ If it is tight the forefinger should be inserted slowly and carefully till a capsule could be in-
serted. Do not try to insert two fingers. Collecting the Semen. Utensils Needed. - The necessary atensils are a semen extractor with a essel of warm water large enough to mmerse the extractor when the piston is
extended, a device for keeping the water warm, a thermometer (a regular

ferred), powdered slippery-elm bark
vaseline, soap, towels and disinfectant.
Sterilization of Utensils.-Just before
using, all utensils, expect capsules, should using, all utensils, expect capsules, should
be thoroughly sterilized by being boiled in clean water for a few minutes. This is absolutely essential, as pointed out in a
previous paragraph. Temperature--After all utensils have
been sterilized they should be transferred been sterilized they should be transferred
at once to a vessel of clean sterile water which is kept at a temperature of 100
degrees Fahrenheit. The bath should never be allowed to vary more than 1
degree Fahrenheit from this point. The degree Fahrenheit from this point. The
spermatozoa in the semen are produced spermatozoa in the semen are produced
in the animal at this temperature and are very sensitive to any temperature change tractor is put into this bath it should be
filled with warm water. Whethod of Collecting the Semen.exten all mares have been examined, their
organs sterilized, the utensils external organs sterilized, the utensils
prepared as outlined above, the stallion mare in heat, which the examination has in every way. As Astle stallion mounts, the operator should approach the rear of the
inare with the bowl and extractor both filled with the 100 degree water. His arm should be previously greased with
the powdered slippery-elm bark or vaseline
As the stallion begins to dismount empty the water from the bowl and catch any semen which may follow
the penis out. As soon as this is done or if none comes. out, give the bowl to an
assistant, immerliatelyempty of water, grasp its end between the thumb hand and tho fingers, and gradually insert keeping the point of the extractor thus If the semen has been discharged into
the vagin. the hand as it enters will by pulling, and it can be taken up
tractor. If the piston of the ex-
the semen is encountered in the vagina it has been discharged into fully inseri the point of the extracto-

## Raymondale Holstein-Friesians


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29 Pounds Butter- 103 Pounds Milk
This is the seven day butter record and the one day milk record of the dam of my last bull of whose dam and sire's average 34.36 lbs . of butter in 7 days, 135.07 lbs . of butter in 30 days and 111
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ing is choice, and they are rearing their offspring under choice, but normal, conditions. R. J. GRAHAM, Montrose House Farms - BELLEVILLE, ONTARIO Brother to the $\$ 50,000$ bull. Three of these are ready for service and all are show calves. Write us also for females. We are pricing a number of heifers, bred to our own herd sire, Sylvius Walker Ray-
mondale, a grandson of the great May Echo Sylvi. We now have bull calves a few montho old by
this sire. Let us know your wants. R.W. WALKER \& SONS, Manchester Station, G. T. R.
Port Pery Ont R R No 4.

## PIONEER FARM HOLSTEINS

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Holstein Bulls


finger) into the uterus. When in the length of the finger, bend the flexible end of the extractor downward by pressure from the forefinger above supported by the thumb underneath.
Firm yet gentle pressure downward will cause a pocket to form in the floor naturally flow. With the end still will tected by the finger tip to prevent drawing in any of the delicate membrane lining the uterus, fill the extractor by gently pulling out the piston. When the instrument is filled straighten its point
draw it from the mare, take it at once to draw it from the mare, take it at once to immerse it in the water at 100 degrees Fahrenheit. His finger should be kept over the end to protect the semen from water or air. All operations, especially where the semen is exposed, should be done in an The semen should be kept in as dark place as is availabie, and never should it be subjected to the direct rays of the sun even for an instant, as direct sunlight

Filling Capsules and Inserting
in Mare.
in Mare.
Just before using the capsules they
should be sterilized by being placed few minutes in a moderately placed for a few minutes in a moderately hot oven.
They must be kept dry, as water dis. solves them.
A capsule is held in one hand (usually lry, while which should always be kept ull from the extractor. It is immediately capped and inserted, cap end first, into he uterus of a mare to be bred. This operation is repeated for each mare to be

The danger of being kicked by the mare can be eliminated by tying or having the owner hold up the front foot on the side the operator works.
After capsule service a mare is allowed to go 18 days. If during that time she
comes in heat she is given another capsule. If heat is not ghown another generally prove to be in foal.

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Power? Every Rumely OilPull will deliver more - and bilt power for its size and rating than any other tractor made. Its rating is based upon only $80 \%$ of its maximun power efficiency-a $20 \%$ overload capacity The OilPull power plant is a low speed, heavy duty motor, built complete in Advance-Rumely factories and on oil fuel. The weight of the OilPull and the weight distribution is absolutely correct to realize the full power developed by the motor. Ask any OilPul

Dependability? Actual work in the field over test. Ten years ago the first OilPull tractors were sold for brealang sod in the Northwest thecors were sold a tractor can tackle. And these same OilPulls have been at it ever since, giving year after year service The first OilPull built is still on the job-over 15,000 The Oilpull
without bends or splices-to best reeis twists strains. OilPull gearing has always been made a bit larger and heavier than you might think necessary OilPull shafting is the same-all of special steel-the tions. Motor parts are ground to the thousandth part of an inch. There is no better tractor wheel made than 80 years. Oil we ve been building engine wheels for over rusting, clogging Ask any OilPull owner his opinion of OilPull dependability.
Economy? Fuel is the biggest item of expense in common kerosene-is the cheapest fuel available fueloil tractors are made, not "made over." The OilPull is designed for kerosene from the ground up-the OilPull

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Simplicity? Simplicity and ease of operation are no complicated mechanism-all operating levers are within easy reach and all working parts, while careflly protected, are easily accessible for inspection properly spaced, to give ease in steering and wheels ating on rough ground-and a short turning radius. A large belt pulley on the right hand side driven directly off the crankshaft makes the OilPull as efficient on the belt as on the drawbar. Ask an

Service? Service as Advance-Rumely practice maintain 27 it is a material part of the sale. W at central shipping points in the U. S. and Canada At each branch is carried a complete stock of machines and parts for immediate delivery, as also an organization of trained tractor experts. Ask any

Proper Size? The OilPull is built in four sizes fit every need-12-20, 16-30, 20-40 and $30-60 \mathrm{H} . \mathrm{P}$. each capable of delivering the proved OilPull power dependability and economy on either drawharor helt The 12-20 is the latest model-a small, light weigh outfit. An OilPull catalog is yours for the asking eterinary supply houstaine, or uggist upon application wil

## Gossip

000-lb. Holstein. g attention to the advertise-
trose Farm Holstein-Friesine sewhere in these columns, al used in making note of used in making up Mr,
fivertisement, in which the rm is referred to as "The
$000-\mathrm{lb}$.- eows." - With ly production for Ontario's running a very little over
er cow, a $20,000-\mathrm{lb}$. ?. sheets hable. A revier cate" rets, however, as seen $y$, was quite 'suffe at the use the term almost without
It is true It is true that the hithout as
aratively ws of milking small; the total but of these age being less g semi-official yearly resords 354 lbs . One from 19,550.7 mark; and of the six, only calve within the required
fy in the Rla Girben, an eight-year-
of Count Segis Wallt
 ds a 12,379-lb, two-yearSylvia, a half-sister ear as a 7 -year-old cow. e same sire as May Echo th in Lulu Pietertie Keve 10 -year-old cow; and fifth,
De Kold De Kol, with $19,550,7 \mathrm{lbs}$; ly average for the five, of
0 use on these good fecord ham has selected as chief via, one of the very best s of Mr. Hardy's great l-famed May Echo Sylvia, which is so well known arther need be said. At
re no females priced, and ulls, aside from the young
ed to one 18 -months son of e Kol, one of the breeding
ned above. All the farm should particuGraham, Montrose Farm,

## s and Answers

 scellaneous
## Gossip.

R. O. P. Holsteins at Millbrook Twenty-six-thousand-pound Record of Performance cows are not numeroun throughout even the largest the Winder-pure-bred dairy herd, owned by W. Fred Falli, of Millbrook Ontario is perhaps Falis, one of the smallest has passed the 26,000 b. mark in one year. Mercena Calamity Posch, the cow referred to, may be said Pob, the foundation cow of the Winderbere herd and her exact record for the mear is $26,448 \mathrm{lbs}$. of milk and $1,041.2 \mathrm{lbs}$ of butter. Her highest day's milk was 102 Ibs., and her highest 7 days 707.1 lbs. Individually, she is as good as her record for production. She has size and character, and when seen at the farm daushters, making up a quartet which in Mr. Fallis' own words, were worth whole herd of "just cows." All three daughters are now or mikning age, and
all hold official records, but if one may judge from appearances each is capable Calamity, a six-year-old, and the oldes of the trio, made 557 lbs. of milk and 17.7 lbs. of butter in 7 days as a 4 -year-old,
while Lulu Korndyke, the next younger made over 10,000 lbs. of milk as a two year-old; and Content Lulu lbs . M Fallis has had the old cow safely bred son of Dutchland Sir Colantha Si Mona, Lakeview Johanna Lestrange
while the three daughters are bred t is own herd sire Hill-Crest Rauwerd Vale, a son of Hill-Crest Ormsby De Kol
and Hill-Crest Pontiac Vale. The latter it will be remembered, was the forme Canadian champion R.O.P. 4 -year-old with $22,785 \mathrm{lbs}$. of milk and 986.25 lbs of butter for the year. The several young
bulls in the present sales list are all got bulls in the present sales list are all got
by this sire and from good, officially-tested dams, including one of those alread mentioned. Among the other good matrons in the herd figure such good cows as Jean Pauline Emma, a 5 -year-old cow
that produced $15,530 \mathrm{lbs}$ of milk the first 8 months in the R.O.P., Lily Bonerges Mercena, a big, six-year-old show cow Lulu Pauline, a pleasing, 4 -year-old and others, making up the number of breeding
cows to something over twenty head which, added to the younger things make up a total of 40 head in the herd a

Questions and Answers Miscellaneous.

Material for Wall How many yards of gravel and barrels
of cement will it take under a building 35 by 20 feet, the wal to be 8 inches thick, and 2 feet, thbove the ground and one foot below. I wish to
put in a floor 5 inches thick, and mix the cement in the proportion of one to seven. Ans.-Building the wall and floor as
you describe yourds of gribe, it will require 22 cubic
for both 20 barrels of cement

Lung Worms
They hogs have developed a bad cough
then it to get rid of it for a time and very good condition. The young pigs few wecks oldract the trouble when treatment do you Ans.-It is rather difficult for us to
definitely diagnose the trouble. The deninitely diagnose the trouble. The
symptonis are somewhat like those of
bronctivis aronchitis, except that hogs so affected
are usually, untlirifty, and if relief is not
effots. effected the patient soon succumbs.
The symptoms of lung worm are similar,
and herd is affected with this parasite. There it. Clean pens in which disinfectants are liberatl use and clean, well-drained
yards will help kep the worm in check.
Plowing s and re-seeding at an early page leands usting the trelieve thate
this para ta has infected your herd

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America's
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Importation expected in August.

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trong, heads large and bald, chaff white, hardy and a heavy yielder. The best
 10 bushels $\$ 32.50$; bags extra.



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lambs at reasonable orice ARCHIE CAMPBELL R. R. No. 1 . On Shropshire Sheep innzewe and of sam, ewe

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few yearime rams and ewes
Prices reasonabie. FOR SALE
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ene nce your
Meal,
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y feeds,
Barley
LLEY
To, ont

## BERKSHIRES <br> Natan <br> $\qquad$ <br>  mand and imad

 Whe "he ishowing while he may claimpointments,", such heorses, not the
conditions cat
canot fail to have some effect. The carriage he heavy harness, horse should wear spoken of as "heavy English carriage Marness." Everything about the harness
is heavy; the driving bit
 heavy breast check rein (if one be oused),
the ormer collar and hames, the former is preferable, and generally,
without treeching and hitched
 Class also wear heavy harness, always
without hrecthing, and either collar
and hanles or heavid and hanes or heary breast collar is
admissible. The whip should be Spring top, lash whip,
Roadsteris, or light harness horsess thould wear light harness with breeching,
and it is generally considercd proper o wear an over-draw check. The buggy
should be a light one than the ordidary business bugge. For
show purposes the one show purposes the one-passenger buggy
without top, is goorl form. The whit Sioud te a straight one of good quality. bridle with doublear bit, ianting saddle, and snafte bil, a slip head for the snaffle, and
two sets of reins. Hunters should, in
addi, addition, wrar a breast plate. As alractly stated, "horses slould be
trained or deducated 'for the show-ring.: They how th be taught to perform in the
manner demanted of the class, do so
promptly ind withou ", promplly and without "argument"; stand
well and generally stoo good manners. It must he remembered that "good man-
 o the howes. Exhibitors often act in a
elfish are alsoswner towards each other, and
to the julues rude and discourteons Place thy think they deserve will tefuse




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## Peter Hamilton

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$\qquad$ yolunteer inf, but exhibitors should not should take it for granted that exhibitor is honest and capable, and the judge
merit in a horse when hegnizes merit in a horse when he sees it. Even
f the contrary be evidenced hibitor will be justified in refusing exhibit before him in other sections, but should not abuse either the judge or the and wish the should always be a "sportse to win, when he gets a "raw deal"" and even without showing anger or rudeness.

## Whowtake ammonia



Questions and Answers.

Foundation for Shed
purpose building a driving house 5 by 23 feet. The walls are to be one foot above ground. What depth in the ground should the foundation be laid? How many yards of gravel will it require for 2. Is there any way of killing chickory in grass fields?
$\qquad$ of the land asepends on the character roundation should be laid. It is well on put it down from 18 to 24 inches, frost will not get under and heave it too much. A 3 -foot wall, 1 foot thick, will
require 16 cubic yards of gravel, and equire 16 cubic yards of gravel, and
mixing in the proportion of one to eight you will need about 14 barrels of cement. killing the chickory is to take a spade and cut the plant off below the ground. If the plant is so thick as to render this to eradicate the weed by plowing if the

## 1



## Price of Butter

 S PROFITABLE millt to the creameicia -when it is far mor AMOUS ABLE JRNtary and simple cononderful litile money.
nooth, white, double cial top that prevents panism, that gives the booklet which illus ve and electrictation ING CO., Limited and Answers. Maneou
n for Shed.
ig a driving house 50 alls are to be one foot at depth in the ground vel will it require for
ay of killing chickory
R. B. ads on the character e depth to which the
be laid. It is well om 18 to 24 inches, ed land, so that the il, 1 foot thick, will ards of gravel, and rtion of one to eight
14 barrels of cement ly practical way of is to take a spade ick as to render this e, then it is advisable d by plowing if the

August 28, 1919
How to Prevent Grasshopper Damage to Tobacco.
The grasshoppers are doing considerable damage to tobacco. The writer recently saw small crops that were completely ruined by this pest. It is not necessary to be helpless in the face of grasshopper attacks for we can successfully combat a plague of this kind with a reasonable expenditure of money and labor with consequent saving of the crop.
Grasshopper control measures ma be grouped into two divisions: 1st, those which deal with the destruction of the eggs; and 2nd, those employed in destroying the hoppers, both young and adult. To destroy the eggs fall ploughing should be done about 15th of October nd all rubel with the or burned. young and adult hoppers in this article. The bait is prepared aceording to the following formula:
Bran, coarse flaked if possible
or shorts.
 Lemons or oranges. ghum or black strap.

2 quarts Water. 4 gallons
The dry bran and Paris Green should be placed in a large tub and thoroughly mixed with a hoe or wooden stick. The The syrup or molasses should be dis solved in three gallons of water, to this add the lemon or orange juice followed by the finely grated pulp and peel of
the fruit. The resulting mixture should be poured slowly over the poisoned bran at the same time the entire mixture should be stirred so that every particle of bran will hold another gallon of water it should be added. The bait may be mixed any time during the day, but should not be kept more than 12 hours before scattering in the fields.
The proper time to apply the bait is
late in the afternoon. The bait should be sown by hand or by a broadcast seeder over the parts of the fields conare very numerous the Where the pests prepared by using 25 pount of bait should be sufficient to cover five bran acres. The cost including labor is or six grasshoppers are pery acre. Where the be necessary to repeat thdant it may of the bait a second time at intervals of two or three days. Under no circumstances should the poisoned material
be sown thickly or placed in be sown thickly or placed in heaps in a
field. The effects of the bait are not im-
mediate, some hoppers may begin fo die 4 hours after the poisoned material is applied while others will be dying 2 to
5 days later. The Criddle Mixture in modified form, léss effective than the poisoned bran It may be made according to the follow-
ing formula: ing formula:
Fresh horse manure, free from straw
one-half barrel or 50) pounds. Paris green, 1 pound. Lemons or oranges, Sufficient water should be added to make the mixture damp. If older manure mixture. Mix pound of table salt to the and observe all precautions exactly the same as for the poisoned bran bait.

A. Freeman, Tobacco Inspecto

It is a dangerous thing, when you otry to cover up the blunder remark, Mrs. G.-was talking with the wife of a profession. "I about her son's choice be alawyer,' she said. don't want him to think there is nothing much finer than the "legal profession for a brighi boy. lawyer has to tell so many lies," Then lawyer has to tell so many lies." Then to the wife of a lawyer; so she hastily addel, "That is-er-to be a good lawyer!

THE FARMER'S ADVOCATE.
1573


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## Our School Department.

The Story of an Egg.
by PRof. W. R. Graham.
Every one is familiar, with the size and shape of an egg; but very few of us
stop to think how wonderfully it is made. stop to think how wonderfuly it is made
We all know that the contents of an eg are enclosed in a shell. This shell
appears, to be hard and solid, but this is appears, to be hard and solid, but this is
not the case. True, it has much strength; but we find upon examination that it is fuil of little holes. These small holes allow the air next to the shell to get into
the the egg. Thus it wilt be seen that we
should keep the egg in a clean place, away should keep the egg in a clean place, away
from dirty straw, such as we often see from dirty straw, such as we often see
in the nest, also away from strong smelling in the nest, also away from strong smelling
substances, such as onions, otherwise, substances, such as anions, oruerwise,
these strong odors, passing through the shell, will affect the taste of the egg, more or less.
Next to the shell, is a thin tissue. This tissue is made of two layers all over the BS, except at the large end, where they called the air-space. This air-space in creases in size as the egg eyaporates o dries. The longer the egg is allowed to
remain in the air the remain in the air, the more air will pass
through the shell; and each little particle through the shell; and each little particle
of air carries away with it some of the moisture of the egg and thus the contents dry up and the air-space increases in size. Sometimes eggs that have been
left exposed to the air in a nice clean place for a year are found to have very little content; and that which is left is dry and almost hard. These tissues may
be pulled off the shell, especially in the case of $a$ hard-boiled egg.
Now we come to the white of the eggs,
or what is called the albumen or what is called the albumen. This is
said by doctors to be a very good food but we are particularly interested in its appearance. So let us break an egg in a saucer. Notice that the white on the outside is thin and watery; in a little further, we see a grey or whitish streak or yellow portion, but does not touch it.
or or yellow portion, but does not touch it.
You will also notice that at each end of the yolk and extending from this whitish portion is a knotted portion, like a little piece of white string. We wonder what these are for, and observe that they
are simply an extended portion of this are simply an extended portion of this
first white streak as mentioned. Inside the white streak is another watery portion. This comes in touch with' the yolk We shall now look at the yolk. Take your finger, or a blunt pencil, and tr to turn it over, and you will notice that the covering of the yolk goes into all
sorts of wrinkles and folds., So we find sorts of wrinkes and folds. So we find
that the yolk is separated from the white by a thin layer of tissues or skin.
If you have been careful in the egg you will notice a little round spot at the top of the yolk. This spot
is about the size of is about the size of a pea, and is called
the germ spot; and it is from this the germ spot; and it is from this that the
chicken grows when heat and conditions are properly applied. egg, we will have one boifed fard of an we will tear. loose a small piece of the
white at the larger end of the by continuing to pull the torn postion
from the left towards the right notice that this white has a spiral ar as giving strength to generally considered We will next examine the yolk the yolk out, cut through the cent notice a small, flask-shaped portion will the yolk, which is soft and light in color,
and that the neck of the flack extend to the outer edge of the yolk. Upon this the germ rests. The hardened
portion of the yolk, you will notice is arranged in regular rings around this
flask. This flask-shaped than the rest of the yolk portion is lighter turn the egg, this spot will bo you upper surface.
Let us ponder for a iew minutes over egg content. The gerine found in the a nice soft cushion in the volle the upon covered with a thin skin, yodjoin, the yolk
yery thin thin tortion of the whiting

If a sudden jar occurs, the yolk, or
chiefy the germ, is protected by the
skin of the yolk. The thin white port acts as a pad or cushion, and the tion white portion holds it steady. Those extended cords of the thick the white act as the axis of lhe yolk holding it in position; and, as you yourn the egg around quickly, you twist the
cords similar to twisting cords similar to twisting a string, with the result, that, as soon as the egg is the germ spot on the upper surface aight No doubt by this time yourare wonder ing, if this germ- spot and the pondition
of the yolk under it at of the yolk under it are so light, why the yolk does not come right up against the has guarded against shell. But nature has guarded against this by the thick
layer of albumen, which always tends hold the yolk in position. Sometimes when the egg is left for
same position, the thick layer is the powered, and the yolk touches the w of the shell. If the yolk remains against the wall any length of time, it appears to become fastened to it, after which you can not successfully hatch a chicke position, the germ cannot move in of position, the germ cannot move properl the germ dies, You may say sitting on eggs never moves t
in this you are mistaken. Th
hen you set put a large pencil mark each of the eggs, and place the eggs under most Next day lif pencil marks upp see that she has altered the position the eggs. We have to imitate the hen in munni an incubator, in that we turn the eg
twice a day. But some one asks, wh is an incubator? Well, it is simply well-built box, heated by a lamp, and th heat evenly distributed pyer all par of the interior so as to give the egs
the same temperature. This hor is no exactly air-tight, for you know that if this little germ inside the egg is going to develop into a chicken at the enc twenty-one days, it must have air This air, you will remember, passes throug those little holes in the shell, the goo air going in, and the foul air coming of in much the samie manner as you breath Now, you will see we have this incubator germ with pure air. There is ano point we nearly overlooked that temperature,
If you will place a thermometer und a hen you will notice that it reads 10 degrees; so we try to run the incubator If any of you would like to see that germ-spot always stays next to surface, you can readily do so by tak a lamp after dark and going to a hen has been sitting four or five days a black cloth around the lamp chin but first make a hole in the cloth, $m$ the same shape as an egg, and have
hole exactly opposite the blaze of lamp. Put the lamp on a litt tamp. Put the lamp on a little
the hole facing you. Now very caref taking, great care not to turn it Place your finger at the ends of the and hold the egg in front of the 1 is around the chimney If the end fertile you will see a dark spot, and fion this a number of dittle spot, and runn in different directions. This is the ger and it has started to grow. Now th the egg slowly around, and you observe that the germ moves as you It is best to talke resting near the surfac It is best to take a white egg to see 1 as white eggs are clearer than brov
ones and the germ is more readily se through them. Should the egg appe clear, or no dark portion be seen, it infertile, and will not hatch.
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