Toronto, Ont., July 4, 1918



A CORNER ON CALVES.

The Silo for Year-Round Use It Supplements Summer Pastures (Page 3).

When Good Fellows Get Together
A Day with the Southern Counties Ayrshire Breeders
(Page 4).

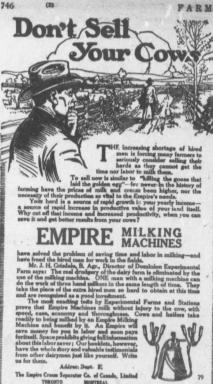
Cows, Hogs and Corn on 1000 Acres Extensive Farming in Essex Co., Ont. (Page 5).

A City Lad's Delusion Our new Serial Story, page 14.

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Farm Management

Summer or Fall Plowing

WOULD not allow any man to fall plow my sod fields," remarked Mr. John Fixter of the Com-I ed Mr. John Fixter of the Com-mission of Conservation, when in con-versation with an editor of Farm and Dairy recently. "The only exception i would make to this rule would be in heavy clay land intended for corn the next year. Then fall ploving might be permissible." Mr. Fixter then went on to explain nimself.

went on to explain numself.

"When you plow a heavy sod in the
fall every furrow turns over, leaving
an air space under them. Next spring
the land is surface worked, but the
air space is still there under every
furrow silce. Dry weather comes and
the crops get yellow. The air space
is shutting off capillary action and
the supplies of water in the subsoil
are not available for feeding the crop.
There is a second weakness in this ere is a second weakness in this fall plowing! It is not until the ground is warm that a sod starts to ground is warm that a sod starts to decay. Hence the plant food that the sod represents does not decay until the following summer and is not available for feeding the succeeding

"The ideal system of soil cultiva-n," continued Mr. Fixter, "is to tion," continued Mr. Fixter, "is to start sod plowing as soon as we can when the hay is off. I might start haying on one side of the field and get part of the crop off. Then, if it rained heavily, I would start plowing, rained heavily, I would start plowing, skimming off as shallow a furrow as possible. As soon as two or three lands were plowed I would roll, the rolling pressing the sod and sub-soil together and hastening decay. The plowing and the rolling would then on together and finally I would k once or twice and then harrow. If disked in another couple of weeks, the sod will work up nicely, then I would plow again in the fall. I believe that every man should have plows, a short mold board for summer work and a long one for fall plow-

Couch Grass a Bad Weed Prof. S. A. Bedford, Chairman, Mani-toba Weeds Commission.

TUMEROUS enquiries are coming to this office research to this office regarding the dif-ferent varieties of couch grass and how best to eradicate them. In Western Canada we have two varieties of couch grass, quack or twitch grass, and both are very injurious to farm

crops.
The imported variety (Agropyron repens), has wide spreading, but shallow, fleshy root-stocks. If allowed to remain for any length of time, th root-stocks form matted beds which choke out grain or fodder crops. It flowers about the end of June and ripens its seed in July. Owing to the fact that it is propagated both from seeds and from creeping root-stocks, it quickly gains possession of a field, once it is firmly established. The seeds of this weed greatly resemble those of western rye grass, and very often it is found mixed with that variety and thus spread over clean farms

To Eradicate Couch Grass.

Although the two varieties of couch grass differ somewhat in their appear ance, the same methods may be used for their eradication. During the month of June the land should be plowed in one direction, say east and west, just sufficiently deep to get below the roots sufficiently deep to get below the roots of the plants; let this plowed land dry, then harrow and cultivate with a narrow-toothed cultivator until the land is level. Should many roots be brought to the surface, to them lie on the surface to die, or, better still, rake them of and burn. Then cross plow north and south, using a sharp, rolling coulter, if the sod is badry matted After being allowed to dry out somewhat, the sods are then torn to pieces with a narrow-toched cuttivator, spring-testh harrows, etc., and the solution brought to the surface to be dried out and possibly hurned.

If the season is an unusually wet one, and it is found ir possible to des-troy all the root-stor'ss in one season. troy all the root-stor's in one season, it is an excellent plan to plow the land again about May 15th of the following year and immediately sow to barley, using about three bushels of seed per acre. This heavy feeding will produce such a rank growth of barley that any remaining couch plants will he emothered out

Simple Way to Test Soils

Duy a few cents' worth of hydro-chloric acid, also litmus paper, at the druggist's. Then test tha various soils on your farm. With a spade or large auger take a soil sam-ple to a depth of seven inches, mining it well.

with a handful of this moist sample make a saucer-shaped form.
Pour a little of the acid, being care. fal not to drop any on your hands or clothes, as it burns. If the result is clothes, as it burns. If the result is quite free bubbling or efferencent, it shows that the soil contains consid-erable limestone, but little or no feam-ing indicates deficiency of time. Make this test with soil known to be rich in lime or with a sample to which you have added lime, then with soil poor

" Putting the Corn By"

66 DUTTING the corn by" is a common practice in the corn belt states, but one which Canadian dairy farm ers have been inclined to frown. in Canada favor cultivating the corn right up to within a week or two of silo filling time. This year, with mammoth southern varieties generally sown, a difvarieties generally sown, a cit-ferent practise may be advis-able. Special Circular No. 17 of the Dominion Experimental Farms series has the following to say on this point:

"Unless the season is very dry or the field very weedy it is us-ually advisable to put the corn by at a little earlier date in the case of these large varieties case of these large varieties than where the smaller, earlier, maturing sorts are used. Stop-ping the cultivating somewhat early has the effect of hastening maturity and will usually result in a rather better quality of en-silage, although the weight of the crop going into the allo will be relatively reduced."

in lime, and you will see the difference distinctly. Now make a ball of moist earth from another handful of this same sample of soil, break it in two, lay on one part a bit of the bige litmus paper, leave for a few moments, then open the ball again. the blue paper has turned red the soil is sour or acid, and probably quite de-ficient in lime. If it keeps red after drying, the soil is very sour. If the blue paper does not change color, then test the soil moisture with red litmus paper. If it turns blue, the soil is

paper. If it turns blue, the soil is alkall, and not sour.

No amount of reading or talking will teach you half as much as for you to make these tests yourself. Many farmers waste years trying to farm sour land or that poor in lime, whereas by testing it in this easy way they can see at once what it needs.—L. C.

FORTUNES OF WAR.

"Pop!" "Yes, my boy."

"What are the fortunes of war"
"I don't know exactly, my son.
You'll have to ask some profiteer."

Yonkers Statesman.

Trade in VOL. XXX

HE prese of shippi and force new To devo and yet at the of stock growing It is a wellarea of land, b different condi United States

Generally sp farm condition to the acre, un makes a better of feed for live most farms. C are kept they s eight weeks du

A pasture exp blue grass past August, and the fall rains, it possible much as in Ma a pasture is at ring May no midsummer. ear for live st

and flies. it is more dif keep young stoo at any other tim This lack short pasture, co year, because co excessive heat a feed is cut short and the worst of regained agai

To obtain the no adverse cond ne season in th is so important :
In fact, a certhe highest yield known by the wi every year for considers silage i for winter.

If no extra fee ment blue grass be understocked suffer from lack season of midsu greatly reduced, kept uniform if s plementing the p

Pasture, then, t during midsumme

When

* This article is try Gentleman." I best known dairyn a large he'd profit alfalfa wil acut a the practicability of



Trade increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land - Lord Chatham.

VOL. XXXVII

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TORONTO, ONT., JULY 4, 1918

No 27

The Silo for Year Round Use

Filled With Corn, Legumes or Cereals it Supplements the Summer Pasture—By Prof. Wilber J. Fraser

HE present high price of feed and the necessity of shipping a large amount of grain to our allies have brought about a critical situation and force new problems upon the stockman for and force new problems upon the stockman for solu-tion. To devote less grain and acreage to livestock and yet at the same time to keep the same amount of stock growing and producing is the situation that confronts the stockman to-day.

contronts the stockman to-day.

It is a well'known fact that the silo is a great
help in keeping much stock on a relatively small
area of land, but little consideration has been given
to the crops best suited to put into the silo under

to the crops best suited to put into the silo under different conditions in the northern part of the United States and in Canada.

Generally speaking, corn is by far the best crop for the silo, because no crop raised under ordinary farm conditions produces more digestible nutrients to the acre, unless it is alfalfa, and because it not eally keeps much better than any other crop but

only keeps much better than any other crop but makes a better quality of silage. Pasture is usually the chief if not the only source of feed for livestock during the summer months on most farms. On practically all farms where cattle are kept they should be pastured for at least six to eight weeks during the year

Pasture Yields.

A pasture experiment conducted for four years by the writer at the University of Illinois showed that blue grass pasture produced three times as much feed during May and June as it did during July and feed during May and June as it did during July and August, and that again in the autumn, because of fall rains, it produced for a few weeks nearly as much as in May and June. This means that when a pasture is stocked to anything like its capacity during May ad June, the feed is cut short during missummer. This is the most trying time of the past of the stock, because of the excessive heat and flion

sad files.

It is more difficult to keep up the milk flow or to keep young stock growing during midsummer than at any other time of the year, even on a well-equipped farm. This lack of feed in midsummer, caused by short pasture, comes at the most critical time of the year, because cows will shrink at best during the excessive heat and fly time, and if in addition their feed is cut short, the shrinkage is sure to be large; and the worst of it is that normal production cannot be regaled again when grass comes on in the fell.

and the worst of it is that normal production cannot be regained again when grass comes on in the full. To obtain the learned of the country of the conditions, and the reason there is no adverse conditions, and the reason there is no essent in the year when the large conditions of the conditions of

for winer.

If no extra feed is provided with which to supplement blue grass pasture in midsummer, it must then be understocked in the spring and fail or the animals suffer from lack of feed during the most critical reason of midsummer. The pasture area can be gradly reduced, therefore, and the feed supply still kept uniform if some other feed is available for supplementary to a supplementary that the supplementary of the supplementary the supplementary the supplementary the supplementary that the supplementary the supplementary the supplementary the supplementary the supplementary the supplementary that the supplementary the supplementary the supplementary that the supplementary the supplementary that plementing the pasture when it fails.

When the Summer Silo Pays.

Pasture, then, to be efficient must be supplemented resture, then, to be entreut must be suppremented by at least a two-thirds ration for several weeks during midsummer. Attempts have been made to accomplish this by growing soiling crops, but this

*This article is reproduced by courtesy of "The Country Gentleman," as writer, Prof. Fraser, is one of the best known dairysta who feed a large hed profitably for years on who who feed a large hed profitably for years on the state of the profitably of this pation.

experiment shows that the great shortage of pasture in midsummer is caused by dry weather, and the time this dry period occurs will vary with different years and may occur at any time from the fore part of June until the middle of September.

Since it is is impossible to tell in the spring the exact time the pasture will be short, it is impossible to grow soiling crops of green feed and have them in the best condition for feeding at the time they are most needed. For this reason a summer silo that may be opened at any time the pasture fails the mad accommission and satisfactory way of sum. is the most economical and satisfactory way of supplying this need.

plying this need.

The summer silo also obviates much extra labor required in seeding and caring for small patches of different kinds of crops and harvesting and drawing these to the cows daily. It also prevents the waste occasioned by the feeding of crops before they are



Prepared for Year Round Feeding.

Mr. John Simmons, of Norfolk Co., Ont., has the right dead. The big cement allo on the right provides winter ensilage for the control of the control of the control young stock. The ensilage milel own and additional young stock. The ensilage milel own and the control left ensures an ample supply of feed when pastues are short in summer—Photo by an editor of Farm and Dairy,

sufficiently mature to furnish the most feed, or after they are overripe and unpalatable.

As previously stated, corn has the most points in

As previously stated, corn has the most points in its favor for silage; but where the silo is empty and some other crop can be cut into it in June or the first of July, a saving is made by thus utilizing the same silo for both winter and summer feeding by filling it twice.

Corn is Best Silage.

Corn, alfalfa or some leguminous hay should be Corn, aminia or some regulinious hay should not the main feeds for cattle and sheep. For winter sliage, then, corn is best, as it keeps much better in the silo than legumes are much more palatable when fed in the form of sliage than in the form of the form of the feed in the feed i the form of silage and legumes in the form of hay whenever possible.

whenever possible. There are, however, exceptions to this rule. The first cutting of alfalfa comes the fore part of June in the Northern districts. It often happens that this period is a rainy one, which makes it olimast if not quite impossible to etro affalfa hay. Under these conditions it is well to put the first crop of alfalfa into the silo

The best crops for putting into the silo in the The best crops for putting into the silo in the summer for supplementing pasture are, therefore, the first cutting of alfalfa, which is usually coarse; the first crop of clover, oats, oats and Camada peas, barley, winter rye, or grass of any kind that is palat-

able, nutritious and gives a large yield.

Clover and alfalfa should be cut at about the same stage as for hay. If small grain is to be used it should be harvested when the kernels are in the dough store

dough stage.

The foremost idea in silo construction is not so much the most cubic feet at the least expense, but rather keeping the diameter small enough so that the slage may be fed and kept in good condition. The diameter of a silo should, therefore, be determined by the size of the herd, and the silo's capacity by its height. When built of masonry the height may be three to f ur times the diameter.

Summer Silo of Small Diameter.

Summer Solo of Small Diameter.

Summer Silo of Small Diameter.

Summer feeding of slage requires a silo of smaller diameter than winter feeding for the same-size herd. There are we reasons for this: First, silage spoils more quickly in warm weather than in oold; second, many times the summer silo is needed to supplement the pasture when only a partial feed of silage is required. When feeding cows a full ration of corn silage in the summer, ten square feet of silage in the summer, ten square feet of silage in the summer, ten square feet of silage on the summer, ten square feet of silage in the summer, ten square feet of silage on the summer, ten square feet of silage in the silage surface for same silage in the summer, ten square feet of silage surface for same silage in the same silage spoils smeller same silage in the same same silage in the same silage each cow is the maximum that can be fed from and

each cow is the maximum that can be set for an active single remain in good condition.

When crops other than corn are used for summer silage it is necessary to have a still less area exposed for each cow. When such crops are used there slage it is necessary to have a suit are an used there for each cow. When such crops are used there should not be more than five .. s.x square feet of silage surface for each cow. For herds of the following sizes the maximum size of silo that can be used successfully for summer feeding with logumes or small grain is:

	e of H												Diameter of sile			
14	Cows												10	feet		
20	Cows			4					ĺ,			Ē	12	11		
27													14	11		
35	Cows											-	16	**		
45	Cows											ì	18	11		
57	Cows												20			

For a good size herd a large silo for winter feeding and a small silo for summer feeding is best. The large silo should be fed out first, so that if any slage is left when the stock is turned to pasture it will be in the small silo for summer feeding; otherwise much might spoil on the surface in the large silo by being fed off too slowly.

Saving the Summer Silage.

Saving the Summer Silage.

If the summer silo has been fed from and there is still sliage left when the slock is turned to pasture, it may be covered over with fine straw or chaff thoroughly wet to cause it to decay quickly and sail over the surface, thus excluding the and and preventing the sliage below from spoiling. If the straw or chaff is not available the top of the sliage will simply have to rot, but it should be thoroughly soaked with water two or three times at intervals of a week to prevent excessive loss from drying out. of a week to prevent excessive loss from drying out and fire-fanging.

If there is but one silo this should be small enough (Continued on page 11.)

Cows, Hogs and Corn on 1000 Acres

Another Example of Extensive Farming in Essex Co., Ont.—By F. E. Ellis

NE thousand acres of rich clay loam land, 73 cows, 400 hogs and a working staff of 15 to 30 men. Such is the Rivera Dairy Farm in Essex cows, 400 nogs and a working stan of 10 as men. Such is the Rivera Dairy Farm in Essex Co., Ont. It is a project big enough to almost dazzle the man accustomed to 100 or 150 acre farms and I must confess when I took the car at Windsor to go out to Amherstburg and see this big farm, which had out to Amhersburg and see this big farm, which had been for several years under the management of a college friend, Mr. Angas McKenney, I expected to find an extensive outlay of buildings, a costly sys-tem of management and much money spent on ap-pearances. Likewise I expected to hear rumors of a big annual deficit, which I had come to regard as a one every count. The buildings were economically

on every count. The buildings were economically constructed to serve the purposes intended and not to impress "the natives"; in fact many a practical farmer might criticize the lack of expenditure on appearances. Certainly there was every evidence of good business management, and I have since been assured that this faru, owned on a joint stock basis, has paid good dividends almost every year, crop failures interfering with dividends in some cases as summent every year, crop failures interfering with dividends in some cases as summent every year, crop salines interfering with dividends in some cases as summent every year, crop salines interfering with dividends in some cases as summent every year, crop salines interfering with dividends in some cases as they will on all-farms in an unfavorable

The milk from this farm is retailed in the city of Windsor through the Rivera Dairy Company. The farm Itself is under the immediate management of is under the immediate management of Mr. G. H. Jackson, a graduate of the On-tarle Agricultural College. There is good connection between the farm and the dairy over the radial railway, which has a stop on the farm. The milk is cooled on the farm and shipped into the city in 86-lb. cans, and is then pasteurized and bottled for delivery at the city plant. It was in company with Mr. Jackson that inspected the producing end of this daire enterprise.

I have stated that the buildings are I have stated that the buildings are economically constructed. They are, however, fitted with every convenience for minimizing stable work and for the comfort of the cattle. The cows are housed in two long stables, which are wings off the main barn. When I visited

the farm in February there were 71 cows milking, but the stables provide accommodation for over 100 Dut the stanies Frovince accommodation for Gent Low milch cows and 30 or 35 more will be added in the near future. The cows stand L two rows facing out and the passageway behind them is wide enough to allow of a cart being driven through when clean-ing the stables. The floors are of cement and there ing the stables. The floors are of cement and there is sanitary steel equipment throughout, including individual water bowls. "The mangers are continu-Individual water bowls. The mangers are continuous with the feed alloys slightly raised; a form of manger which is easily cleaned and therefore regularly cleaned. A small point that it noticed was the utilisation of the upper pipe of the stanchion talling as a vacuum pipe for the milking machine, the pense of duplicating piping being thereby avoided.

The Dairy Herd.

grade Hoistein cows, with a small sprinkling of Jerseys to keep up the fat content of the milk. About half of the cows are reared on the farm and the other half purchased in the dairy sections of the province. It is the intention of the managers, however, to rear a greater proportion of their cows, and to this end daily milk records are kept of the pro-duction of every cow in the barn and helfer calves from the best cows will be reared. In a commercial proposition such as this, too, no cow car be retained that is not paying profits and the only efficient method of detecting the bearders is the daily milk method of detecting the bearders is the daily mins record. Mr. Jackson informed me that a very con-servative average of daily production, from the whole herd would be 25 bis. of milk a day per cow. "We feed our cows twice a day," Mr. Jackson in-

formed me. "We start milking at five a.m. and feed



A New Canadian Champion in Record of Performance Test och Queen Warne, owned by Peter Bussell & Sons, Aller, Alberta, whas the October Queen Wayne, owned by Peter Bussell & Sons, Aller, Alberta, whas the Matter clear with 1,15 and 1,5 a

at about 7.30. A truck of ensilage goes ahead and another man follows with a truck of grain, feeding the grain on top of the ensilage. The men then have their breakfast. After breakfast they clean the stables and then feet hay. Right after dimerine the stables are again cleaned, ensilage and grain are fed at two p.m., the cows are ground as a fed about 5.30 and the stable work is then over for the

"We have gotten very good results from 'wo feed-ings a day," replied Mr. Jackson in answer to my question. "Our great difficulty is to get a sufficient supply of efficient labor, and had I the help, I would like to feed another round of ensilage at night. If we could give say 10 lbs. more per cow, it would help out in the milk flow, but this would mean anman in the stable

Cov Stabled Year Round.

The cows in these stables are never allowed out of the barn the year round, unless one should happen to get stiff and be taken out for exercise. Only the young stock is pastured. The cows, however, are perfectly comfortable in the stable, even in the hottest months. The doors and windows are screened, and if the flies should get into the stable in m. ed, and if the files should get into the stable in un-comfortable numbers, they are fought out in the time-honored way, familiar to all housekeepers. Said Mr. Jackson: "We prefer to feed in the stable the year round. It would take an immense amount the year round. It would take an immense amount of pasture for our herd, and we don't consider that we can get enough feed off pasture. Land under suitable crop is at least two and one-half times as efficient as is pasture in keeping cows. We have succulent feed the year round in the form of slage.

sed the year round in the form of silage, and at certain times we can cut crops green. For instance, one year our hay was not good and we went out and cut a few loads of green alfalfa. In a few days this alfalfa brought the cows

Speaking of alfalfa I soon found that corn ensilage and alfalfa were the stand-bys for this year round feeding plan. On the farm there are two stave silos 36 x feet and a third silo 30 x 14 feet and a third silo 30 x 14 feet Trug old, double-walled silos are no silo use. In growing the corn to dischar-silos, the Rivera Dairy are always sure of enough. Husking corn is one of the important crops of the farm. About 50 acres is seeded to corn of an ensign variety, usually Wisconsin No. 7, and the on the land that is closest to the siles. The corn from this 50 acres is put in the siles first and if they are not full, filling is continued from the land planted to the husking varieties, such en to the nusking varieties, such, for Instance, as Comptons or Longfellow. The balance of the corn is then husked and the stalks plowed under. There is always from 50 to 75 acres of affairs. to be cut for hay.

cash crops are relied on for a large part of the farm income, the principle ones being fall wheat and corn. In fact, when first established, the enterprise was known as

the Essex Seed Farms, and a reputation has already been established by the company as growers of seed corn of superior quality. As much as 10,000 bushels of corn fit for seed has been husked for one year, of corn at for seed has been ausked for one year, but in 1917, this farm along with all the others in the district, was visited by an unfavorable season and early frost, and there will be only enough good ann early gross, and there will be only chough good seed for replanting the farm. In all, 300 acres are devoted to corm, 135 to fall wheat, 75 to cats and 25 to barley. Practically all of the outs grown on the farm are fed to the horses, and I found that as a farm crop, Mr. Jackson was not disposed to look on them with favor.

on them with ravor.

About 300 acres are tile drained. The rest of the farm has good surface drainage and at present the managers are "going slow" on the tile. Each field (Continued on page 7.)



Getting the Silo Fiiled is Always a Greater Undertaking Than Threshing on a Large Dairy Farm Such as the Rivera Farm of Essex Co., Ont.

I tis now e club was trict Ayre Holstein Br the same to pioneers .A have been Canada and number. Th ously in Ont teation been fancier, it m ganizations. The object

ed as social cational hand and con the other club, the end was g Monto Club held se club sales tempted at clubs howey never, in act tice, been more than se ganizations ganizations.
Menie Club
started to ho
nual sales ha
served its field exception to eral rule is the Breeders' Clu center in Oxf counties. This ful sales each day highly and for all recently "These meet

that every bree altogether by the result can must keep bot! it is on these opportunity to Ayrshire type." In other woo Breeders' Club successful sales tions on an ex have a few bre ing intelligently

to the club sale type. The line by the Souther by a descriptio on June 14th, on near Brownsvill one of the fine began to arrive oticeable that the whole famil ber stated

Members who gathered at 9.30 the home of Mr. duced the "Jear the long line of to the farm of l Burnside Lucky Ayrshire type. the finest milk next visited. to Brownsville In the forenco

paring lunch in the club member meeting, which announced that been instructed country gatherin everybody and n Food Controller w wasted. The me

When Good Fellows Get Together

A Day With the Southern Counties Avrshire Breeders' Club

I is now eight or ten years since the first breeders' club was organized in Canada. The Menie District Ayrshire Breeders' Club and the Belleville Holstein Breeders' Club, covering approximately the same townshir's in Eastern Ontario, were the pioneers at the movement. Since then local clubs have been organized in almost every province of Canrela and we have long since lost track of their number. These clubs, which represent the Holstein, coally in Ontario and to such an one to the such a facility of the day out the facility out the day of the day out the such as the such of the dairy counties have one or more local or-

The objects of the clubs are usually stat-ed as social and educational on the one hand and commercial on the other. In the case of at least one club, the educational end was given first place for some years; the Menie Ayrshire Club held several suc-cessful field days before club sales were atclubs, however, have never, in actual pracanything tice, been anyth more than seiling or-ganizations. Even the Menie Club since it started to hold its an-nual sales has not observed its field day. An exception to the general rule is the South-

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eral rule is the Southera Counties Ayrshire
Freeders' Club with its
enter in Oxford and embracing all the adjoining
counties. This club not only holds two very successful sales each year, but also conducts an equally
successful field day. The members value their field
day highly and Mr. John McKee, the secretary, spoke
for all recently when he safe;

for all recently when he said:
"These meetings are important. They will give
new breeders an idea of the breed ideal. I believe
that every breeder must have this ideal clearly fixed that every breezer must have this ideal clearly fixed in his mind for if we allow ourselves to be guided altogether by records in our breeding operations, the result can only be disastrous to the breed. We must keep both type and performance in mind and it is on these field days that we have an excellent a is on these neld days that we have an excellent opportunity to demonstrate what constitutes good Ayrshire type."

In other words the Southern Counties Ayrshire In other words the Southern Counties Ayrshire Breeders' Gibb realizes that back of continuously successful sales must be intelligent breeding operations on an extensive scale. It is not enough to have a few breeders here and there who are working intelligently but all ments who consign stock to the club sale must have a correct ideal of breed to the club sale must have a correct ideal of breed to the continuous con pe. The line of action being followed to this end the Southern Counties Club is best illustrated by the Southern Counties Club is best illustrated by a description of the most recent field day held on June 14th, on the farm of C. C. Hawkins and Sons, near Brownsville, in Oxford County. The day was one of the finest and warmest this spring. Care began to arrive early in the forenon and it was noticeable that most of the club members brought the whole family along; "the only holiday on which we all get off together in the whole year," one members stated. her stated

Other Herds Visited.

Members who came from Norwich and beyond gathered at 9.30 in the morning at Brookside Farm, the none of Mr. John McKee. The herd which produced the "Jean Armours" was first inspected and the long line of autos moved on to Mount Eigin to the farm of F. H. Harris & Son, where is sowned Burnside Lucky Master Swell, a sire of almost ideal Avrshite tyne. Morrian Proc. who over his deal to the control of the contr Burisiae Lucky Master Swell, a sire of aimost ideal Ayrshire type. Morrison Bross, who own one of the finest milking herds in those counties, were next visited. The final relay brought the group to Brownsville and swelled the numbers present to

In the forenoon, while the ladies were busily paring lunch in picnic style on the big barn floor, paring lunch in picnic style on the big barn floor, the club members got together for a short business meeting, which came to a sudden end when it was amounced that dinner was ready. Everyone had been instructed to bring baskets and as usual at country gatherings, there was lots of everything for everybody and much to spare. In deference to the Food Controller we might add that there was nothing wasted. The meal was a social success. Breeders met other breeders from adjoining counties, "many of whom had never before been acquainted, and there was an air of cordial good fellowship which was good to see.

The Addresses After dinner the barn became an auditorium and the company listened to a couple of good practical the company listened to a couple of good practical addresses. H. M. King, B.S.A., of the Animal Husbandry Department at Guelph, discussed breeding problems. The point which he impressed most strongly was the growing belief among stockmen that herds can be improved more quickly by selection through the sire than through the dam. Mr. King instanced, the experimental work with poultry which were described by the 160 properties. which proved conclusively that 90 per cent. of the



The Autos which made Possible the Field Day of the Southern Counties' Ayrshire Breeders' Club

improvement in egs production came through the male bird. He admitted that the advantage of the sire, in dairy cattle improvement, might not be so great as with poultry, but nevertheless it was the important end to be watched. "Do you believe this conclusion to be correct" he asked the breeders directly and an emphatic "yes" was the response.

Another point of special interest to Ayrshire breeders was the speaker's statement that high butter fat centent is an hereditary characteristic to just as great an extent as least milk production. The statement in this address tracement in this address the statement in this days statement in the sadress expressed belief that "the Dairy Standaria Act should be enforced that "the Dairy Standaria Act should be enforced."

now."
Mr. Alex. Hume, of Meniy, Ont., one of the best
known and most successful exhibitors of Ayrshires
in Canada, chose as his subject, "The Fitting and
Exhibiting of Ayrshire Cattle." "It is the duty of
every breeder to exhibit his cattle," said Mr. Hume. cannot say a Agraine Cattle.

It is the duty or every breeder to exhibit his cattle, "asid Mr. Hune: every breeder to exhibit his cattle," asid Mr. Hune: work as a stable. But the successful exhibitor must work as a stable. But the successful exhibitor must start to plan for the show in advance. One must start to plan for the show at the start and the agrain to the exhibition are as a start of the stable until taken to the exhibition."

Show Ring and Production Don't Conflict.

Type is essential in the ring," continued Mr. Hune. "This necessitates that every breeder he working towards an ideal. I know that types run to extreme as much as does production, but I want to extreme as much as does production, but I want

working towards an ideal. I know that types run to extremes as much as does production, but I want to tell you that if you breed for the type that wisas in the show yard, you will pred for the type that does well in the pail. Prof. Barton, of Macdonald College, has examined carefully the records of the Ayrahire breed, both at the pail and in the show ring, and he has found that it is the same strains that win in both cases."

win in both cases."

Mr. Hume advised that the older stock be kept
in the stable three to four weeks before being shipped
to the show ring. Blanketing during this period
laduces a soft hair and a mellow skin. During this
period some succulent feed is essential and oil cake meal is a great assistant to putting the proper bloom

What grains would you recommend?" asked Mr.

Kee.
"Oat chop, bran and oil cake," replied Mr. Hume. "We don't want the heavier feeds such as corn. The next pointer applies more to the Ayrshire bree The next pointer applies more to the Ayrahire breed than to any other. "Many spoil their cattle at the last minute in the clipping," advised the speaker. "The object of the clipping is to make the animal as dairy looking as possible. Proper clipping will as dairy looking as possible. Proper clipping will give a neater appearance to the head and neck, sharpen the shoulders and give a fuller appearance habitad the absoluters. behind the shoulders.

behind the shoulders.

"We always wash our cattle twice with soap and water," said Mr. Hume in reply to another query. "We wash once before the show and once again be(Continued on page 11.)

Saving a Worn-out Farm With Fertilizer

A New England Experience, Told by the Owner

PURCHASED the farm six years ago. The FURCHASED the farm six years ago. The previous owner had been a widower for forty years, and had some of the failings supposed to be typical of men in that condition. The buildings had gone to rack and rule, and I firmly believe that had gone to rack and rule, and I firmly believe that give here to be supposed to the widowhood. The fence rows had grown up to brush, most of the land had received no fertility treatment for more than a generation; what barn dressing there was had been spread within shovel-throw of the barns themselves. Commercial

what barn dressing there was had been spread within shovel-throw of the barn shemelves. Commercial fertilizer had never been used on this farm. However, it was not an 'shanderd' farm—the previous owner had died on the job.

"The farm was not rich enough to keep much stock. It couldn't keep stock anyhow, because the barns were more than a century old. Never to rotate oven in their earliest days, the condition in which is found them when I bought the place showed a high and noble disregard of all sanitary laws. "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of "The neighbors as a rule were rather scoprible of the neighbors as a rule were rather scoprible of the neighbors."

ning and noble disregard of all sanitary laws.
"The neighbors as a rule were rather scornful of
the farm, and unanimously of the opinion that the
land could not be brought back unless it was stocked
to its utmost. They have already changed their opinion on this point, although not without making some grudging concessions.

The First Success.

"My first attempt at improvement was to sow buckwheat with fertilizer on a piece of land where the grass and cher seeding had failed. The fertilizer was of a 'course from the and fairly high in potash. This last fact from the land fairly high in potash. This last fact from the land sequent history of this particular land sequent of grass and clover. The grass seeding and seculifully, and the field it still giving excellent cross. "This particular field had its last potash application in the spring of 1914. The last crop that of 1917, stood up straight and strong without a sign of lodging. "On another field I started with potatoes. The "My first attempt at improvement was to sow

"On another field I started with potatoes. The soil on this field was in very bad condition—old.

root-bound in some places, and in other places so thin as to furnish scarcely any humus. I used fertilizer on the potatoes, and the crop returned me a fair profit. I then followed with rys seeded to grass and clover. This field also her assecsful, and by the aid of fertilized potatoes the fin-provement has cost me a little less than othing. "On still another field I turned over the old sod, limed heavily, fertilized, and reasonated."

"On still another field I turned over the old sod, limed heavily, fertilized, and re-sected at once to grass and clover. The wild grasses came through, however, and the hay on this particular piece of land is even yet of rather poor marked quality. The cost, however, was very low, and the returns from this land almost as large as on the piece improved the means of the nortal grasses. by means of the potato crop

Green Manuring Tried.

Green Manuring Tried.

"Finally, on the last piece, I turned under a heavy green manure crop of rape, spring vetch and oats. I ferried this fairly liberally. Improvement on this piece loss as started in 1915, when it was impossible to gas started in 1915, when it was impossible to gas as the potential fertilizers. The land was far remove lash potent fertilizers. The land was far remove lash potential fertilizers. The land had no manure or any other continent for many years. I got a beautiful grass seed the evidentity the heavy green manure did not succeed the evidentity the heavy green manure did not succeed to the property of the

alone.

"As to profits, all I can say is that every piece of land which I have improved has more than paid expenses, and is now returning me fair interest on the capital invested. At the same time, I could not have gone on to the farm without capital, and made have gone on it during the time I was making improvements. I was unable to the large the provements and supplies that Dr. Hopkins is right when Jays that outside capital is always needed to bring up run-down lands."

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A Study of Prices

T is interesting to study the differ-ence in prices which breeders ask for stock, eggs or baby chicks. For example, what is a fair price for a May hatched Leghorn pullet in Oc-Naturally, much depends on her breeding, but as a matter of fact. more depends on who the seller is Assume that the pullet is a fowl from a good laying strain, but without fancy points, is she worth \$1 to \$2? It is self-evident that if the man who raised her (with feed at \$4 per 190 pounds) paid his advertising, printer's and postage bills, gets less than \$1.50 for her, that he can not long make expenses, for he doesn't value his time and work at anything to speak of. It is admitted that \$3 is the minimum cost of raising a about the minimum cost of raising a pullet to the age of 18 months, even under the best of conditions, and that charge is for feed alone. Judging then from the cost side, a good, vigorous pullet should be worth \$2 at six to seven months of age

Considering it from the production side, the pullet well cared for should lay 150 eggs at an average value of four cents each, or \$6 for her year's Valuing her at \$2 and the cost of feeding at \$2.50, which is rather low for any breed but a Leghorn, the buyer would have made profit on an original investment of \$2, and he still has the yearling hen on hand, worth fully what she cost originally for breeding purposes. Puloriginally for breeding purposes. Pul-les at \$2 for good, vigorous laying stock should be a splendid invest-ment this coming fall to any one who will care for them properly. Select ally more according to quality

Prospective buyers can afford to buy nothing but first-class stock from well established strains, for in no other way can they be assured of full value for the investment.—Rose Comb

Shipping License for Eggs

WOLD you kindly advise me as whether or not a farmer shipple his own eggs to a packing compain the city requires a license from t Capada Food Board?—S. J. S., Richmo

We have received advice from the We have received advice from the Canada Food Board as follows: "Farmers are not required to obtain licenses from the Canada Food Board to ship their own eggs or butter to a packing company, retailer or con

Head Lice in Chickens THE chicks should be gone over for

lice—the head lice are the worst. If the brooder and the surround ings are kept clean as possible there should not be much fear of head lice. Should they appear, however, an appli-cation of ointment of some kind should be used at once. If this is not available, use vaseline, olive oil or sulphur and lard. Every head will have to be gone over and the treatment will have to be repeated in a week. troublesome task to go over several hundred young chicks, but it must be done, each head by itself. Rub the the ears. Some use coal oil, but it is too severe and has been known to kill the chicks about as quickly as lice

Head lice in chicks are sometimes hard to locate. The chicks may be Hatless, getting thin, wings down, feathers ruffled, and dying off one by one. Upon examining the heads one can see nothing running around, and all that appears is what looks like young feathers sprouting out of the head. To make sure that they are there, take some of the olntment and apply thoroughly to the head. Put the The young feathers will minutes time. The young feathers wi be gone and large bodied lice will be running for their lives. The "feathers" were the abdomens of the lice, the head and rest of the bodies being buried into the head of the chick eating away at the tissue. It takes only a few days to have a whole flock cleaned out. Absolute cleanliness is the best preventive.

Summer Suggestions

URING the summer months it is best to produce only infertile pose . keepers to sell all the male birds, thus saving their feed and producing eggs saving their feed and producing eggs which will keep better and market to a great advantage. To produce the best market eggs during the summer, all male birds should be disposed of all male birds should be disposed of.
No, broody hen should be allowed to
sit on the eggs. Clean nests must be
provided. Eggs must be gathered twice daily, kept in a cool place, and marketed every few days. Also all cracked, soiled or misshapen eggs had better be used at home, and only large,

better be used at home, and only large, uniform, clean, fresh eggs sold. Lice and mites will multiply and thrive in hot weather. Be on guard. Spray with a three per cent. solution of any coal-tar disinfectant to kill mites. Lice can be destroyed entirely by treating hens with sodium fluoride Put the white powder on in pinches all over the bird's body. Either of above treatments must be repeated in ten

The little chicks need shade and protection from the heat. Give them some shady grounds or build some frames, cover with old sacks and place on legs to protect them from the heat of the sun. They will thrive better. Be sure they get plenty of fresh water during the hot days.—P. F.

HORTICULTURE

Potato Spraying Demonstrations URING the early summer of 1917,

D several makes of potato-spray-ing machines were secured for experiments at the Charlottetown Experimental Station. A contest was arranged, and the dates on which the several sprayings would be applied were advertised in the local papers. number of interested men attended practically every demonstration. the 28th of August, 1,300 people vis ited the Station, and the majority the potato field to see the work of the different machines. blight occurred in many parts of the Province early in the season, and the check plots that were not sprayed at this Station showed very plainly that quite a bad attack of the disease was

The contest was carried on in du-plicate, with Green Mountain potatoes. Four applications were made to each plot. The total cost of applying the bluestone and lime includes the cost of both man and horse labor. Un-sprayed check rows were left at intervals throughout the field for purpose of comparison. Long before potato digging time, anyone could pick out these by their dead, disease-infected The following results were obtons. tained:

(1) A four-row, horse-power chine with one nozzle spraying dow from the top and one on either side of the row, applied 80 gallons of 4:4:40 Bordeaux to the acre, at a cost of \$1.65 per application without poison. The plots yielded at the rate of 194 bushels of marketable potatoes, or 52 bushels more marketable potatoes than the corresponding unsprayed check, giving a net gain over the total cost of spraying, of \$32.40 per

(2) A four-row horse-power ma-chine with one nousie spraying down on the foliage of each row, applied 35

gallons of the same Bordeaux per acre, at a cost of 80c per application These plots yielded at the rate of 146 bushels of marketable potatoes, or 24 bushels of marketable potatoes, or 24 bushels more of saleable potatoes than the corresponding check, giving a net gain over the cost of spraying of \$14.80 per acre.

(3) A four-row hand machine with one nozzle spraying down, and one nozzle spraying through from the Bordeaux at a cost of \$1.00 per application, per acre. These plots yielded at the rate of 171 bushels of market. able potatoes, or 52 bushels more sale check, giving a net gain, after deducting the total cost of spraying, of 335

(4) A four-row hand machine with (4) A four-row hand machine with one nozzle spraying down on each row, applied 26 gallons of the same Bordeaux at a cost of 70c per application. These plots yielded at the rate or 19 bushels more saleable potatoes than the corresponding check, givin a net gain after deduc cost of spraying, of \$11.45 per acre.

Marketable potatoes were valued at 75c per bushel. The foregoing con-test clearly demonstrates the advant. age of thorough spraying, and the ne

Orchard and Garden Notes

PRAY potatoes early to keep ahead S of the blight and bugs. is wet, but just as soon as it works

Clean straw around the strawberry plants and between the

keep the berries clean. Spiraeas and other early flowering shrubs may be pruned now, although ten days earlier would have been a

better time. Frequent cultivation is of much more value than watering. Keep the the soil.

Before moving a plant, thoroughly set the soil about it and take a ball

of earth with it.

Arsenate of lead or paris green are good remedies to use against chewing

sects. When paris green is used is well to add an equal quantity of insects. lime to prevent injury to the foliage Kill the weeds before they start to This is best done in the gar den by a hand cultivator, garden rake

en by a nand cultivator, garden rage r a five-tined garden hook. Dahlias should be staked when bout one foot high. Sometimes about one about one foot high. Sometimes stakes are set when the plants are put in. Keep the plants thinned to three or four stalks. The more stalks, the smaller will be the flowers.—Le-Roy Cady.

Plant for the Future By A. M. Metcalf.

fr I had room for only one apple tree I would plant it," once re-marked a venerable horticultur-ist who talked at our Farmers' Insti-tute, I was one of the boys on the benches around the stove that remark stuck in my memory and when, years later, we got a farm of our own after several years of share renting, we immediately began to plant for an orchard and a model fruit garden. Every year since we have planted a few trees at least. Some of them are now in bearing and we have an orchard that adds several hundred dollars to the value of our farm and which will soon be adding a goodly sum to our income. In addition to apples of the early, fall and winter varieties, we have cherries, plums and

So far we have gotten the greatest returns from our fruit garden, which occupies about an eighth of an acre at the side of the house. We have selected our varieties so as to have a succession of fruit, right from spring to fall. We have strawberries, rasp berries, blackberries and all of the bush fruits such as gooseberries and

July 4, 15 black mbds bruit garde use garde not Inte but each w for sale su bors have to the hou value to us the joy of ton of thin Cultiv

T HE big notato cultive drag harrow come up. It the young y germinated tained a fir are quite a to harrow t the afternoo potato spre ti will not brea harrow is p the growing over them w week and gir on after ea the crust on Douglas May

Cows. Hog (Conth must pay pr

high to mak

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The S The swine to unlike the any other fa here that the for the preven first experime der the direc tain that the neighborhood been laid off entire hog pe quarantined ; of the surplu restrictions. o hogs from breeding however, legis whereby cour

permit of the uble serum The merit venting hog lutely proven here," Mr. Ja using the dou can keep our sure that they at any time by keting, howev with restrict nuisance."

"Hogging de practise in th United States. at the Rivera acres of 1 sald Mr. Jacks ed well. It so to have a good could finish th corn field. ould be to p and finish the starting with cottonseed mi crease gradual 24 han net

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black, white and red currants. This full garden is located close to the house, so that the berries can be picked fresh at every meal. Directly, it ed fresh at every meal. Directly, it is not intended as a money maker, but each year we have had a surplus for sale sufficient to pay for all the work expended on it and the neigh-bors have been glad to come right to the house for the fruit. Its chief to the house for the fruit. Its chief value to us, however, is in the addi-tion it has made to our table and to the joy of living. I almost believe that the best thing we have done since starting farming was the planting of this fruit garden and the or-

Cultivating the Potatoes

HE biggest agent in keeping the potato field clean is the blind cultivation that is given with the drag harrow before the potatoes have come up. It is much easier to destroy come up. It is much easier to destroy the young weeds just after they have germinated than after; they have obtained a firm foothoid. The harrow can be kept going until the potatoes are quite a size. It is well, however, to harrow the aprouting potatoes in the afternoon. I have found that the potato aprouts are tougher in the afternoon. Than in the morning and afternoon than in the morning and will not break off so easily when the harrow is passing over them. Pota-toes need plenty of cultivation through the growing season. Try and get over them with the cultivator once a week and give them an extra cultivalon after each rainstorm to break up the crust and conserve the moisture which is so essential to potatoes.— Douglas Maynard, Leamington, Ont.

Cows. Hogs and Corn on 1000 Acr. s

(Continued from page 4.)

must pay profits and therefore must pay for its own tile. "Labor is too high to make tiling profitable now." said Mr. Jackson, "unless the surface drainage is insufficient."

The Swine Department.

The swine department on this farm is unlike the swine department on any other farm in Canada. It was It was here that the double serum treatment for the prevention of hog cholera was first experimented with in Canada under the directions of the Veterinary Director General. In order to be cer-tain that the treated hogs do not spread cholera to other herds in the spread cholera to other herds in the neighborhood, a part of the farm has been laid off specially and here the culire hog population of the farm is quarantined and even the marketing of the surplus is hemmed about with restrictions. Up to the precent also, no logs from this farm can be sold for breeding purposes. Recently, however, legislation has been allowed whereby counties can take action to permit of the general use of the double serum treatment.

"The merit of this method of pre-venting hog cholera has been abso-lutely proven by our experience here," Mr. Jackson told me. "Since using the double serum treatment we using the double serum treatment we can keep our 300 or 400 hogs and feel sure that they will not be cleaned out at any time by hog cholera. Our mar-keting, however, has been hemmed in with restrictions which make it a nuisance."

"Hogging down" corn is a common practise in the corn belt of the United States. It has been tried, too, at the Rivera Farm. "We hogged down 20 acres of husking corn last fall," said Mr. Jackson, "and the plan worksaid Mr. Jackson, "and the plan work-ed well. It saved a lot of labor and we will do it again. When we happen to have a good early crop of corn, we could finish the hogs right off in the corn field. My preference, however, would be to pen hogs for four weeks and finish them on cottonseed meal, starting with hom. and this them on cottonseed meal, starting with about one-fifteenth of cottonseed mixed with the corn, increase gradually according to the appetites of the hogs and sell immediately the finishing period is com-

The Cost Accounting System.

Not the least interesting feature of this farm is the cost accounting sys-tem. One man of the farm staff has charge of all the farm stores, feed, fertilizer, etc. Before he delivers any charge of all the farm scores, feed, fertilizer, etc. Before he delivers any of his stores to any department of the farm, he must have a signed requisifarm, he must have a signed requisi-tion from the manager. In this way accurate track is kept of the amount of feed and other supplies used in each department. Time sheets are kept for each man and each team and these are filled in by the foremen each hees or efflict in but foreman each man man hees or efflict in the foreman each might. With the bythe foreman each might with the bythe foreman each growing any crop on the farm, or the capenaes of the dairy or hog department. "At the present time," he told me, "I know at the end of each week just how much f have to get out of the dairy herd to clear myself. I always know exactly how much feed it was known was know exactly how much feed to the dairy herd to clear myself. I always know exactly how much feed to the dairy herd to clear myself. I always know exactly how much feed to the dairy herd to get the dair we have found the corn to be more profitable under our conditions. This information alone would pay for keep-

tem."

This same cost accounting system enables the Rivera Dairy to give a really intelligent verdict on the price of milk. "The price of milk is not high enough to enable us to meet labor competition." declared Mr. Jackson emphal.cally. "It seems to me that some measures should be taken to convince city people that milk is to convince city people that milk is their cheapest food and to adultate the convenience of the proper commentation of the prop turate with the present cost of pro-

Accommodation For Men.

The staff required to operate the Rivera Dairy Farm varies from 15 men in the winter to 25 to 30 men in men in the winter to 25 to 30 men in the summer months. There are five houses provided for married men and there is a large boarding house for the single men. The boarding house the single men. The boarding house is run as a separate department of the farm. Board is not included in the wages paid to the men amployed, but they are given their board practi-cally at cost in the farm boarding house. The married men, too, pay for all supplies that they get from the

I had intended to visit the swine

ing up the whole cost accounting sys-tem."

This same cost accounting system enables the Rivera Dairy to give a

department and see for myself the serum treated hogs. There was, how-ever, one-quarter of a mile of mad between the dairy barn and the hog between the dairy barn and the hog department and my car back to Windsor was due, so bidding Mr. Jackson good-day I hurried out to the little radial station just in time to get the car. On the ride back to town I ask ed myseit this question; is corpora-tion farming such as is practised at the Rivera Dairy Farm due to in-crease in Canada? Is centralization to be the rule in farming as it has been in all other industries?

> If you find it difficult to get arsen-ate of lead this year, why not try arsen-ate of lime? This is about one-fifth ate of lime? This is about one-fifth stronger in its poisoning effect than the former. It should not, however, be used alone on foliage. Add a few pounds of lime to the barrel of water if you are not using Bordeaux.

Poison potato beetles when they are young. One pound of paris green to 40 gallous of water will be more effective with the little soft bodied effective with the little soft bodied larvae than will two pounds to 40 gallons when these have grown up to the hard shell stage.

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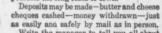
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None genuine without the name FLEET FOOT stamped on the sole. Look for it.

The best Shoe Stores sen FLEET FOOT

FARM CHATS

Turnip Drilling By "Thaddeus."

HE leading article in Farm and Dairy a few weeks ago by David Grayson was much apd. some of the points and I have those ideas preciated. "stuck," and I have those ideas coming to me while I work, making the work more pleasant and the hours pass more quickly. It is an instance when we get value from

mind was atune with the My mind was atune with the Grayaon sentiment one day recently when I was drilling for turnips. The apirit of contentment and general satisfaction hold full sway, and I was happy for a short time. There were reasons for it. Turnip drilling for a man like myself, who is only an average plowman, is apt to be more or less of a trying job, but this day things were goings smoothly be. day things were going smoothly because of at least three things: a well-prepared soil, efficient power, and an exhibitanting and satisfying at-

The season for planting all crops this year has been somewhat in advance to what it usually is; consequently, with fine weather, shortage of labor, and a general depression of most things about the farm, there has been a tendency to hasten still more this early planting. I have observed many pleaces of corn and root ground sown that were not in the best of shape and when the owner would have gained by continuing cultivation a few days longer. I tried to close my eyes to the fact that these fellows were ahead of me, and kept the team steadily working on that turnip patch. When at last the plow went into the ground to make the drills, it was indeed pleasing to have fine tilth roll away from the "board" without the jars of con-science as to how the seed would

The team were a pair of Standardbreds who had the same mare for a mother, even of temperament, flashy enough to step to a taut rein in a straightforward movement that all plowmen enjoy. The work was not heavy enough to cause them to draw on that latent power of nerve and muscle that all good horses of this class possess. The power there was of a kind that supplied every need and made one glad to be able to work with such creatures.

The day was one of the best of those we have enjoyed this year. Bright, sunny, yet cool enough to be pleasant. Everything about spoke of growth and promise. The pastur growth and promise. The pasture was good, the cream cheques satisfy-ing. The sheep were thrifty, the young lambs growing, and the price of wool gratifying. The hay gave evidence of an abundant crop. springsown grains were making splendid growth, and had passed the most critical stage in that they now covered and shaded the ground Rains had been frequent. Altogether everything seemed to point to a fair-ly prosperous year and good returns for the farmer's toil. Why should he not be happy, contented and satis-

The Farmers' Delegation.

Just here the scene was changed, for my thoughts ran into another channel. It was one of those days that the great delegation of farmers met in Toronto, and I had been part-ly through the flood with them, and knew that as a class the Ontario farmer of to-day could not lay claim to any of those above-named desirable conditions when I applied the three factors that made my frame of mind in the turnip field so edifying and enjoyable, to the farmers' gather-ing in Toronto on June 7. I found, in a measure, a reasonable excuse for

It is a truth that Ontario farmers were not a well-prepared soil for conscripted military service. When the M.S.A. was, therefore, applied, the ground could not receive it. Again, in their uprising they, in turn, were not prepared. This was painwere not prepared. And was pain-fully evident at both the Ottawa and Toronto gatherings. There was a great lack of a unified, carefully, thought-out schedule of the requisite articles to make their soil projuc

Again, the motive power, though strong enough, was not barnessed and trained in a manner that brought forth the maximum results without suffering from side-stepping, crowd-ing, unequal draft and other cylls attendant on a mismatched, untried team. All this had the tendency to ruffie and worry those who held the plow and drove. Had it not been I think we are all willing to concede, for their quiet, cool, level-headed leading, persuading and driving, dis-aster would have been inevitable.

The surrounding atmosphere in this picture was the opposite of the other. Storm clouds of townspeople's diverse opinions were present on every side. The powers that be rained their displeasure in torrents upon the untilled soil, nearly caus-

ing mobs and other fatal things.

Yet we pressed on and hope to succeed. In conclusion it seems to me we, as farmers, must learn not to abandon the fighting line at Ottawa, Toronto, and other seats of government, but start a stronger cultivament, but start a stronger cultura-tion drive at home, whereby we may think and act more unitedly and more to the point. This can best of done by organized motive power in farmers' clubs and kindred organizations. Hitherto our local clubs have existed all too much for the sole purpose of cooperative buying and selling, neglecting the much more important side that was so lacking in this last great campaign. Meetings should be held regularly and attended regularly when vital agricultural questions are discussed and settled, questions are discussed and scutzed and scutzed not altogether by imported speakers of talent and great oratory but by ourselves. Thus an education would be provided that would help to raise the general standard of the mature mind of those who farm the land to a level that would make it workable and productive. At the same time it would dispel much of the dwarfing and counteracting atmosphere so prevalent amnog other classes of peo-ple to-day, and would gradually establish a general equilibrium of thought and action that would produce a greater and grander citizen-ship throughout the Dominion.

The Size of Nails By Frank P. Goeder.

By Frank P. Goeder.

To for requently happens that is going to the hardware store to purchase nails we find ourselves in
doubt as to what size we want. Nails
are usually sold by the pound and according to the "penny." for example, a
10d nail is three linches long
an inch in diametrion on the differtive common nails. Remember that ent common nails. Remember that brads differ from common nails only

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	Length		Neares	
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Size	inches	inches		pound
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3 d	114	.08	12	568
4 d	11/6	.10	10	316
5 d	1%	.10	10	271
6 d	2	.11	9	181
7 d	214	.11	9	161
8 d	21/4	.13	8	106
9 d	2%	.13	8	96
10 d	3	.15	7	69
12 d	314	.15	7	63
16 d	31/4	.16	6	49
20 d	4	.19	6	31
30 d	41/4	.21	4	24
40 d	6	.23	. 3	18
50 d	514	.24		14
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J. H. Grisda

N EWS com Joseph H Director of system, has to Deputy Minister cession to Mr. Copyrights Div Trade and Com Mr. Grisdale

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Mr. J. tario Agricultura

Iowa State Colle first became kno

ers when he w turalist of the Farm in 1899, ceeded the late who had been D mental Farms fr Since Mr. Gr in 1911, the work greatly extended vice has been at and the following to the headquar tral Farm: Fiel culture, Illustrati mic Fibre Produ Experimental st tablished at th Kentville, N.S.; Lennoxville, Que

land and Sidney, As the directi farms from one other, Mr. Grisd timate knowleds sessed by one he position in relat Deputy Minister

Kapuskasing.

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The O.A.C. A

HE 43rd Ann Experiment

now available i College reports 398 students w various short co general course. enrolled 360 s courses and 398 courses. The to

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J. H. Grisdale, Deputy Minister

JEWS comes from Ottawa that Joseph Hiram Grisdale, B. Agr., Director of Experimental Farms system, has been appointed acting peptry Minister of Agriculture in succession to Mr. Geo. F. O'Haloran, who becomes Chief of the Patents and Copyrights Division, which has been transferred to the Department of Trade and Commerce.

Mr. Grisdale is probably as well known to Canadian tarmers as any other public man, and he is eminently fitted to fulfil the duties of his new position, should the appointment be made a permanent one. His early education was at Albert College, Belleville, Ont. From there he went to the University of Toronto, where he took part of the common, phillips of the property of the appointment of the appointment of the appointment of the appointment of the common, phillips and particular appointment of the common, phillips and particular appointment of the property of the property of the property of the common, phillips and particular appointment of the property of the p

Mr. J. H. Grisdale,

lows State College of Agriculture. He grit became known to Canadian farmers when he was appointed agriculturalist of the Central Experimental Farm in 1899, and in 1911 he succeeded the late Dr. Wm. Saunders, who had been Director of the Experimental Farms from their organization. Since Mr. Grisdale's appointment in 1911, the work of the Dominion Experimental Farms System has been greatly extended. The tobacco service has been attached to that branch to the headquarters staff at the Central Farm: Field Husbandry, Extension and Publicity, Forage Plants, Apiculture, Illustration Station and Sconome Fibre Production. In addition to a number of new sub-stations regular Experimental stations have been established at the following points: Kentville, NS.; Fredericton, N.B.; Lennoxville, Que.; Spirit Lake, Que.; Kayuskasing, Ont.; Morden, Man.; Soott, Sask., and Invermere, Summerland and Stidney, B.C.

As the directing head of numerous farms from one end of Canada to the other, Mr. Grisdale possesses that intimate knowledge of Canadian agricultural conditions that should be possessed by one holding so important a position in relation to agriculture as Deputy Minister for the Dominion.

The O.A.C. Annual Statement

THE 43rd Annual Report of the Ontario Agricultural College and
Experimental Farm for 1917 is
now available for distribution. The
College reports that during the year
38 students were enrolled in the
various short courses and 287 in the
Seneral course. Macdonal, Institute
enrolled 160 students in regularcourses and 398 students in summercourses and 398 students in summercourses. The total attendance at all

courses during the year was 1,433. The president makes the following comment on these figures:

"We find that the war is affecting the attendance at the agricultural college in about the same proportion as at other educational institutions. In our regular courses of two and four years the numbers are greatly reduced. The attendance at the summer courses for teachers and the short winter courses for framers, has been very good under the circumstance, figures for the summer school being almost double those for the year 1916."

The financial statement shows total expenditures of \$311,022.82, revenue \$84,289.86, and a net expenditure of \$226,732.96. The farm department had an expenditure of \$28,816.46 and a revenue of \$15,043.30; the poultry 'epartment, \$12,790.75 and a revenue of \$85,44.35. These are the only two departm nist that met more than a small proportion of their expenses with revenue.

APICULTURE

Bee Diseases

THE widespread demand for eees this year has increased the risk of the spread of see diseases. Two of these, American Gree diseases. Two of these, American Gree diseases to the beakeeping industry every year; and whereof they are count they should be readed promptly and reported to the provincial aplariat or hes insections.

or bee inspector.

Every beekeeper should know how to recognize these diseases, and how to distinguish them from the less serious Sacbrood.

nous bacterion.
In American Foul Brood, the bee larva or maggot, in the stage just after it is capped over with wax, becomes a viscid coffee-colored mass, which can be made to rope out an inch or more and has an unpleasant glue-pot odor. Cells containing the rotten ierva have their cappings discolored, sun'en, irregularly perforated or remova dail. The remains dry to a scale which after the remains dry to a scale which after the remains dry to a scale which after the remains dry to a scale which as the remains dry to the wait of the cell. The remains dry to the wait of the cell the remains dry to the remains dry the remains dry to the remains dry the remains dry to the remains dry to the remains dry the remains dry the remains dry the remains dry the remains dry

European Foul Brood attacks most of the larva before they are capped over, while they lie curled up in the bottom of the cell. The larva turns yellowish or greysia had melts into a pulp which will not rope or will rope but little, and has a slightly sour odor. A few capped larva are often affected. Sometimes a fetid odor is present. The dried scale is easily removed. Italian the statement is to introduce Italian questioned the second of the controduce Italian question about discount of the capped also be carried out in many cases.

also be carried out in many cases.

In Sachrood the dead larva with darkened skin lies extended in the cell. Usually the entire larva can be removed from the cell without breaking the skin. On puncturing the skin, the contents are found to be more or less watery. Colonies affected by this disease usually recover and no treatment is necessary.

To guard against foul brood, do not buy bees on combs or used bee supplies, unless you are sure they are clean. Do not feed your bees with honey from another aplary. Keep the colonies strong and avoid robbing. If European Foul Brood is in the district, Italianize, without delay.

Do not cut the sewing machine belt when it becomes too loose. Instead put a few drops of castor oil on the band, run the machine a few minutes and the belt will be tightened.



Main Street, Picton, Ont., Constructed with "Tarvia-X" in 1919

Tarvia Roads for Towns and Villages---

THE road problem of a small town is an awkward one. Property values as a rule cannot sustain costly types of pavement, whereas the traffic

coming in from the sur rounding country-side may be heavy. The best roads for towns so situated are Tarvia macadam.

amall via roada are introduced, the oneone- business of the community usurule ally increases greatly—more
se of products going out and more
radio money—and goods coming in.

Made in Canada

**Mad

Preserves Roads Prevents Dust - roads replace poor roads, the people of the community save enough in hauling ex-

Tarvia is a coal-tar preparation which bonds the stone together, making a tough, slightly plastic surface which is automobileproof, dustless, and durable

An old macadam road can be converted to Tarvia macadam at a slight cost and will thenceforth show a very annual up-keep.

In fact, hundred of miles of macadam are being converted to Tarvia macadam every year in recognition of the lowered cost of maintenance and the net saving in taxation. When Tar-

penses the first year or two to pay for the roads. And further, good roads will convert the most dismal, stuck-in-the-mud community into one that is up-anddoing, and throbbing with life and growth.

Numerous towns all over the Dominion now use Tarvia on a large scale in order to reduce maintenance expenses as well as to get durable, dustless and mudless roads.

There is a grade of Tarvia and a Tarvia method for most road problems.

Booklet on request. Address our nearest office

The Barrett Company

MONTREAL TO: ST. JOHN, N. B.

TORONTO WINNIPEG

VANCOUVER SYDNEY, N. S.

You Need This Lantern It's our present to you

A steady bright -4 light all the time. Has the revolving lead on the supporting bracket, can throw light in any direction. A necessity around the auto or garage.



Can be turned on or off immediately. No dirty, greasy oil. No trimming, always ready for use. Can use it for a house lamp.

WE WILL SEND IT TO YOU FREE complete with batteries for 3 new subscriptions to Farm and Dairy, at \$1.00 per year.

Address Circulation Dept., FARM & DAIRY, Peterboro, Ont.

When Writing Mention Farm and Dairy

Handy Scales for Farm Use

Convenience and service are

Fairbanks Farm Scales

The handle at the base of the weighing post permits of ready transportation on its own wheels to any part of the farm buildings. In house or barn or dairy it serves any purpose up to 2000 pounds capacity.

Fairbanks Portable Farm Scales are compact and absolutely accurate. The platform is 34 x 25½ inches and has a clearance of 11 3-8 inches above the ground. Write our nearest branch for full devices the control of the

The Canadian Fairbanks-Morse Co., Limited St. John



CREAM WANTED

We again solicit the patronage of both old and new shippers for the

coming season.

Shipments will receive the same careful attention as in the past, and highest prices will be paid promptly for good churning cream. WRITE US FOR PRICES AND PARTICULARS.

Reference, Merchants' Bank, or

Valley Creamery of Ottawa

319 Sparks St., Ottawa

CABBAGE PLANTS

Of all leading early and late varieties, 45c per hundred, mail prepaid; \$2.50 per thousand, express collect. Also cauliflower, Brussel sprouts, celery, onion and tomat plants. Ask for price list. "Dept. F.

Herold's Farms, Fruitland, Ont. Niagara District.

GILSON SILO FILLERS

THE GILSON SILO FILLER is the one bewere which can be successfully over a ted with the control of the custom of the cust ber.
c guarantee every Gilson Silo Filler to
and elevate more englage with the
se power than any other blower cutter. Will Sile Filling Time

Write for catalogue to-day. Gilson Mig. Co. Ltd.

SHEEP AND SWINE

Profitable Pig Feeding

M R. J. W. Moote, dairy farme Haldimand county and an J. W. Moote, dairy farmer of thusiastic Holstein breeder, fully appreciates the value of hogs as a sid line to the dairy business. Recently keeping track of all expenditures and keeping track of all expenditures and all receipts. Because of supplies of buttermilk and skim milk, Mr. Moote was able to feed to the very best ad-vantage. His statement is as follows:

Receipts.
9 plgs weighing 1,890 lbs. at \$20.25 pigs weighing 1,890 lbs. at \$20.25 per cwt. \$382.72 6 pigs weighing 1,200 lbs. at \$19.50 per cwt. 234.00 2010 70

Expenditures

15 pigs 5 weeks old\$65.00 30 cwt. middlings67.55 25 cwt. wheat screenings57.56 8,700 lbs. of buttermilk17.46 5 tons of skimmed milk20.00 **** 40

\$289.19

This statement, of course, accounts only for the feed consumed. Interest on investment and labor charges must

Back Yard Pigs -UF Production Campaign

Brampton this year is even better than last, and I do not believe But we did not limit the production movement to gardening al and the advertisements were put in see that townspeople who wished to buy young pigs would be put in touch with men having some for sale. You will be interested to know that one farmer alone in the vicinity of Brampton sold this spring 178 young pigs to residents of the town. This, of to residents of the town. This, of course, does not represent the full ex-tent of hog production, but it shows what can be done in the matter of pro-duction. duction when the thing is given the right kind of publicity.

—J. W. Stark, Peel County, Out.

Denmark's Hogs Reduced

ENMARK'S stock of swine has been reduced from 2,500,000 head at the beginning of the war to 400,000 at the present time. In were nearly 250,000 tons, of which almost half went to England. Canada's opportunity now is to increase her exports from 130,304,947 pounds, the latest conservative figures for 1916, to anywhere up to 1,261,082,032, the total requirements for Britain.

Ignorance or Carelessness?

N EGLECT of the pig's comfort is apt to be costly nowed. apt to be costly nowadays with pork ranging from \$18 to \$20. The following report from E. P. Bradt, district representative in Dundas Co., Ont., tells its own story:

"Last week it was reported to me that a farmer near Williamsburg had lost over 30 hogs in a month's time. lost over 30 nogs in a month of the Line. I got in touch with the Vet. Director General's Department, and arranged with them to send one of their officials out to investigate. I accompanied Mr. Hall of their Department to the farm One of the pigs was killed and a post r ortem investigation revealed that it was Shoat Pneumonia. Mr. Hall, who made the investigation, stated that it made the investigation, stated that it was not considered very contagious and was due more to the conditious under which the hogs were kept. We found that the farmer had simply placed his hogs into a yard outside vithout providing any dry sleeping quarters. He has had the same disease among his pigs for the past three years, and stated that he had lost over 100 pigs in that time. It

weeks to three months of age. I was glad to learn that it was not a serious contagioùs disease."

The Sheep's Mouth

A LAMB has its first set or misk teeth at about four weeks of age. They consist of eight evenly small teeth on the lower law At one year the two middle milk teeth are replaced by two large permanent teeth. At two years the second pair of milk teeth are replaced by permaof milk teeth are replaced by perma-nent toeth. At three years the third pair are replaced, and at four years the last pair of milk teeth are replaced, leaving the animal with a "full mouth" of permanent teeth. It has been observed that occasionally where sheep are particularly well fed and cared for and maturity hastened, dentition takes place somewhat ear-

Pig With Rheumatism

CMEPTHING has gone wrong with a Sow I have. She can hardly use her hind legs more so in getting up. While lying down she acts as if she is paralized. Could you give me any information re what treatment I should give her or what is the matter with her! If killed would she be fit to eat?—A. P., Renfrew Co., Ont.

Excessive corn feeding puts more Excessive corn feeding puts more pigs off their feet than any other in the corn belts of the United States and in sections of Canada where corn is to be had for feeding. Pigs that go down from this cause can be restored by changing the feed and in troducing some shorts, or some other nitrogenous food into the ration. It is a good practice with weak pigs to feed a teaspoon of sulphur in the feed three times a week. Pigs being thus fed should be kept in dry quarters to prevent their catching cold.

in the case of your pig is rheumatism. Pigs often go down in the hind quar ters from sleeping in damp or draughty quarters. It is likely that draughty quarters. It is likely that if you can arrange to give plenty of feed and have a good dry place for the pig, she will get all right. Rheu-matism would not harm the pork if

THE FARM HORSE

The Brood Mare HE uniformity in the man

on a particular farm is not given much con-There is satisfaction and cohaving mares similar enough type and action so that one can read fill the place of another at any kind of farm work. Such mares are especially desirable when it is neces to work three or four abreast If the mares resemble each other and are bred to the same stallion it is often possible to sell the young hors in pairs, in which form they usually sell at a premium. The market for horses bred in this way will not be overcrowded very soon, as readily will be attested by anyone who has been confronted with the difficult task of purchasing from farmers mated pairs of a certain type.

Breed characteristics in pure-bred

or grade mares signify impressive ancestry and prepotency. Feminality of expression and conformation is an indication of good breeding qualities Style, good disposition, quality, clean, one, concave open feet, strong constitution, good proportions, deep, roomy barrel, width across the hips denoting a large polvic arch, and well-developed vulva and teats are quali-ties especially desired in breeding mares. An inspection of the colts the her worth as a brood mare. length of usefulness as prolength of usefulness as producers varies greatly with different marés. Some will produce excellent colts when twenty-five years of age, but if they produce until they are fifteen years old they do very well. Much depends on the individuals and the way they are handled. Shy breeding marcs are generally unprofitable pro-

The Colt's Legs

HE colt should have his feet care. fully watched, always keeping very little that can be done to read-just the set of feet and pasterns on a mature horse, but the colt is easily ausceptible to such changes. The see of feet and pasterns can be thrown one way or the other if it is done while the bones and joints are still young and flexible. If the colt stands too close behind or in front, keep the inside toe of the hoof a bit shorter than the outside and have the incidthan the outside, and have the inside quarter a triffe higher. To throw the feet closer together, lengthen the in-side of the toe and keep the outside quarter slightly higher than the

mature horse that toes out hadly in front nigger heel fashion to hard to help with shoes, for his legs growing colt can be helped consider. ably by proper shoeing because his ed slightly. Beware of the stallion with this fault, for there is no characteristic which draft horses transmit to their of spring with as much cer-tainty as nigger heels.—By George MacLeod. Genesco, Ill., in the Per-

cheron Keview

To Prevent Big Leg

G leg is common enough to be important, and it is easily pre-vented. Heavy horses, especially those of very coarse type, are more commonly affected. A sudden fever, beginning with a chill, is followed by a swelling, beginning usually high up on the hind leg and then extending downward to the foot. One attack is usually followed by others, each one leaving the leg a little larger than

The disease can usually be avoided by allowing exercise in a yard or pas-ture, during the idle periods of horses or even by greatly reducing the grain ration during temporary idle periods Horses that have been working and are suddenly left idle need very little grain if already in a fair condition or good flesh, and are very much safer so far as several diseases are concerned .- M. H. Reynolds.

High Prices in Britain

T is not a question of price, but a question of getting good horses at any price in the old country just according to Mr. Wm. Graham. of Graham Bros., Claremont, who re turned home last week.

Mr. Graham says that he travelled for three weeks in Britain looking for Clyde fillies without being able to buy one. In fact, in some cases be was not even allowed to see the animais he was looking for. He offered five thousand guineas for one stallion five thousand guineas for one standard two thousand guineas for another, but neither of them could be obtained because their services are under contract at home for years ahead. He did manage, however, to buy ten fillies and two stallions, and sold the lot again before they were landed in this country.

A further indication of the sort of horse situation that exists in Great Britain is seen in the fact that even good geldings are selling at 160 to 250 guineas.—Toronto Globe.

One of the best mixtures in treat ing the potato beetle is made from one pound of paris green, two pounds of the paste form of arsenate of lead and 40 gallons water. This will give the quick killing action of the paris green and the sticking quality of the arsenate of lead combined. Inty 4, 1918 The Sile fe

(Contin to diameter to summer, and when the sto to feed during

problem is sol

amount, the s legumes or sm The question with small pro or of having a be decided up practically twi to the acre as so that the er is put into the the summe may be refille made on th as the same s during the seas tod immediate cally a year, a vestment in gr

For those wh in diameter fo to be desired. available at the some early ma allo to supples mean a great and a large in Regardin

ERMANY G having he instance, the or ket for barley in ernment, to with sell at a fixed cents per poun compulsion, how ding his bar emist to his ho the price of by the time by pork the price r the barley is n

how, we seem to As a remedy ment developed for the physical and requiring th at certain centr price stated. Reichstag rather

"The first stay ever all crops. 'the setting up of trol. The third s ment by the Carmy of officials. stage was the di-

All of which mend to those w fixing by the Gasea for any ar agricultural ills.

> A Cow B. FAIRBAN

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The Silo for Year Round Use (Continued from page 3.)

to diameter to be fed from during the summer, and if sufficient silage is left when the stock is turned to pasture to feed during the summer, the silage

which the second to the term of the second to find during the summer, the silage to not seen as a second to the se of oats when both are put into the silo so that the entire crop is consumed. On the other hand, when small grain is put into the silo and fed out duris put into the silo and fed out dur-ing the summer so that the same silo may be refilled in the fall, a saving is made on the investment in silos, as the same structure is used twice as the same structure is used twice during the season. The crop grown is fed immediately and not held practi-cally a year, as with corn silage, re-sulting in saving interest on the in-vestment in growing the crop.

vestment in growing the crop. For those who are able to make the larger investment, a silo small enough in diameter for summer feeding and filled wiff corn the year previous is to be desired. But where this is not available at the present time, putting some early maturing crops into the allo to supplement the pasture will mean a great saving in the feed bill and a large increase in the returns from the herd during the summer.

Regarding Price Fixing

ERMANY has had and is still having her troubles with price fixing i. various industries. For the control of the ERMANY has had and is still this kind have happened in this coun-

As a remedy the German Govern ment developed a vast organization for the physical taking over of crops for the physical taking over of crops and requiring that barley be delivered at certain central warehouses at the prios stated. A recent speaker in the Reightagr rather aptly discussed this situation as follows:

"The first stage," he said, was for the State to declare that it would take ever all crops. The second stage was the setting up of a Committee of Con-

the setting up of a Committee of Con-trol. The third stage was the appoint-ment by the Committee of a vast army of officials. The fourth and final stage was the disappearance from the market of the commodity in ques-

All of which we respectfully com-mend to those who believe that price fixing by the Government is a pan-sees for any and all industrial and agricultural ills.

A Cow to the Acre

B. FAIRBANKS has a small farm in the outskirts of Manchester, New Hampshire. He has developed this into a dairy farm, producing milk to sell in Manchester. In order to make it worth handling. he order to make it worth handling, it was necessary to produce milk in canaderable quantity; much more than is ordinarily produced on a farm of this size. This meant a large cow population and a big increase in the farm food production in order to support them. How well Mr. Faribanks has succeeded can be measured by the fact that at the present time he has 16 cows, a herd bull, a few head of growing stock and farm horses on 18 acres of land. He now has the 18 acres of land. He now has the farm to the point where it will raise all the forage and hay necessary to maintain the cattle on the farm.

He does not pasture the cows at

He does not pasture the cows at all, only allowing them out of the barn for exercise. He depends upon rye, fodder corn and second crop hay cut green for summer feed and first crop hay for winter feed. All feeding is done in the barn.

Mr. Fairbanks systematically top-Mr. Fairbanks systematically top-dresses his meadows with both man-ure and commercial fertilizer, as the manure alone does not make a good balanced plant food. When he can got it he uses from 300 to 500 pounds per acre of a special grass mixture. Originally, he used chemicals for top-dressing, but of late years he has de-

dressing, but of late years he has de-pended upon commercial fertilizer. Mr. Fairbanks is a firm believer in proper tillage and plenty of fer-tility. He says that most farmers make the mistake of using on ten acres the manure and fertilizer which should be applied to one. His hay fields show the result of care. He annually harrests 4½ to 5 tons of hay to the acre in two cuttings. He says that he has been compelled to cut over his meadows a third time some years to keep them from smothering out during the winter, and making "fog in the mowing" the following spring.—E. G. McCloskey in Rural Life.

When Good Fellows Get Together

(Continued from page 5.) fore the judging. One can hardly get an animal clean at one washing. We clip before the second washing and in our breed of cattle we never think of using any oil for rubbing into the hide. It would yellow the hair.

"On exhibition day some of the animals must be well filled out, while others should not be so fully fed. It depends on the animal. Another point, which counts at the last minute,

depends on the animal. Another point, which counts at the last minute, is the handling of the animal in the ring. Keep one eye on the animal and the other on the judge. Some animals look best with their heads well up, while others are at their worst in the same attitude."

Judging Classes.

After Judging Classes.

After Judging Classes.

After Judging Classes.

After Judging Classes of the cub, we will be a supported to the barnyard, where classes of cutto, young and old, selected from the herds of Mr. Hawkins and his neighbors, were first placed by the club members and then by Mr. Hume, who gave reasons for his placings and by a criticism of the best animals in each class, endeavored to place before the gathering what constituted ideal type. From an educational standpoint, this was the most valuable part of the day's proceedings. In the latter part of the afternoon the autos began to glide away, some of them

began to glide away, some of them with a 50-mile run between Browns-ville and the home chores. It may be that, as time goes by, additional features will have to be Introduced to maintain interest in these field days. But their value cannot neld days. But their value cannot be questioned. Why, it is worth a lot for the breeders of a district and their families to get together in a social way and become acquainted. It ensenders the spirit in which cooperative effort of any kind succeeds best.

—F. E. E.

The wire palls, half bushel size, are the write pairs, nair bushel size, are the proper receptacles for use in pick-ing potatoes. They are light and al-low the dirt to drop through, so that very little is carried into the cellar.— Douglas Maynard, Leamington, Ont.

"Are you laughing at me?" de-manded the professor sternly of his class.

"Oh, no, sir," came the reply in

chorus." asked the professor even "Then," asked the professor even more grimly, "what else is there in the room to laugh at?"

THE BEST INSURANCE IS LIGHTNING RODS

\$100,000 is roughly estimated as loss Ontario farmers suffered in the great electrical storm of Tuesday night, June 11th. Barns were destroyed in almost every part of Southern and Eastern Ontario. Nearly all of this great loss could be saved by the proper rodding of buildings. Such has been proven by practical experience.

Here's the Proof---

Two-thirds of all rural barn claims settled by 40 Insurance Companies in Ontario, over a period of 121/2 years were due to

Lightning

This year the country can illafford the loss of your barn or your crop. It will be well spent money to put your buildings in the "Safe" class. You can prevent the loss and reduce the cost of your insurance by equipping them with rods made by

Ontario

Department

Agriculture

for Bul'etin No. 220 On page 3 you will see the following:

"To-day we know from Experience that Lightning Rods. properly installed, are almost absolute protection !

The Universal Lightning Rod Co. Hespeler . Ontario

Send for free literature to-day

Some Advertisers who blame advertising for poor business never think of considering their own weakness in follow up.

Moral—Attend faithfully to all correspondence.

Extra Hours of Daylight

HINK what you could do with another extra working hour each morning and evening. How you could make the whole farm

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

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

BURRELL (B-L-K) MILKER



Good for the Herd

This saving in labor alone pays for the Burrell outfit in less than a year.

Many dairymen who found hand-milking unprofitable and intended selling the herd have used Burrell's and then increased the herd.

Send for free illustrated booklet explaining all the advantages and proving them by experiences of dairymen, big and little.

D. Derbyshire Co., Ltd. BROCKVILLE, ONT.

756

Karm and Dairy

Rural Come

"The Farm Paper for the farmer who milks a Published every Thursday by The Rural Publishing Company, Limited Peterboro and Toronto.

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ADVENTISION GATES, 15 on the line one column 134 inches. Copy received up to Saturday preceding the following week issue.

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The Rural Publishing Company, Ltd. PETERBORO AND TORONTO

"Read not to contradict and to confute nor to helieve and take for granted, but to weigh and consider."— Bacon.

The World's Food

THE statement of Mr. Auld, Deputy Minister of Agriculture for Saskatchewan, that a large part of the wheat crop in that province is in a precarious condition, will cause uneasiness to all who have kept in touch with the world's food situation. Recent advices from Russia are to the effect that the peasants are not cultivating their farms and the so-called Russian government is actually appealing to China for provisions to tide them over next winter. In Palestine, and, it now develops, in large sections of Africa also, the populations will be practically dependent on foods imported from America. All of southern Europe, including our two allies, Greece and Italy, are extremely short of foodstuffs, and the coming harvest will meet only a part of the need. French harvests will be much below French requirements. In addition to our obligations to our allies, we also have certain obligations to the neutral nations of Holland, the Scandinavian countries, Spain and Switzerland. Above all, we must feed Belgium

The situation is not without its hopeful features. The grain acreage in America has been increased this year and crop reports from the United States and Eastern Canada are most reassuring. Even in Western Canada the increased acreage may counterbalance the short crops of Saskatchewan. England will this year be nearer to self sustaining in food matters than for several generations. Shipping facilities, too, are on the increase and it may be possible to import largely of the surplus crops of Australia and India. Even at the best, however, there is going to be a terrible shortage of food and we fear that many more will be added before another twelve months have passed to the already staggering total of five million people who have died from starvation since the war began.

The farmers of Canada, with a greater per capita production than any other people in the world, hold a place of strategic importance under present conditions. It was their realization of the importance of the role which they are called upon to play in the feeding of the world that led Canadian farmers by

the thousands to protest against the most recent conscription measures of the government. A measure of relief is conferred in the announcement that nineteen-year-old boys will not be called until after harvest, but the seriousness of the food situation demands that the government give the farmers the assurances that are necessary to the greatest possible production in 1919. It cannot be denied that at present the rural attitude is one of suspicion and distrust, an attitude that can be remedied only by the government taking the people more into its confidence. Withholding information never accom-

FARM AND DAIRY

plishes any good purpose in a democratic country.

Two distinct tendencies are distinguishable in est class of registered dairy animals are selling for higher prices than ever before and values are continually advancing. Pure bred animals of ordinary good quality, on the other hand, were never, comparatively speaking, so cheap as they are to-day and there never was a time when the sale price of a herd of good grade dairy cows so nearly approximated the buying price of a herd of pure bred cattle to replace them.

Both of these tendencies were evident in the auction sales his spring. Prices on the best animals have been soaring continually and this is true of all the dairy breeds. Holstein fanciers applied the cap sheaf when the Carnation Stock Farms paid \$106,000 for Champion Sylvia Johanna. This young bull is from the greatest milk producing strain of the breed. His dam, May Echo Sylvia, holds all world records from 152.1 lbs. milk in one day to 12,899 lbs. of milk in 100 days. All Canadian breeders will feel a thrill of satisfaction that the world's record price was given for a bull of Canadian breeding and will congratulate Mr. Hardy on his accomplishment. Although a six-figured price such as this has been realized but once, the upward tendency of prices was evidenced at the same sale by the frequency with which the \$10,000 mark was passed. Coming back to sales on this side of the line we have in mind three sales in particular at which four-figured prices were frequently reached and reached because of the rich breeding and record backing of the animals

Do these sales presage the day when pure bred and registered dairy animals will be divided into two classes, high priced breeding strains on the one hand and just good commercial stuff on the other? One thing, at least, is certain-the big prices in the future are going to be confined to a few well developed strains in each breed

British Export Restrictions HE British Government is not going to longer

permit the indiscriminate sale of live stock to buyers outside of the British Isles. For the past two years prices have been rising steadily on all classes of pedigreed animals. Foreign buyers have been bidding so high that breeders in the Old Land have yielded to temptation and parted with stock that, for the good of the British live stock industry, should have stayed at home. The government has now decided that this is a menace that must be stopped. All British exporters of pedigreed stock are now under license and they must not send from the British Isles a greater number of live stock than the average number of their exportations for the past three years. With this ruling in force the export business from the British Isles for the balance of this year will be of small proportions, as great numbers of registered animals have already been shipped.

This action on the part of the British Government was expected by all importers on this side of the water who have kept in touch with developments in the Mother Land. The wisdom of the restrictions cannot be questioned and the significance of this action should not be lost on the Canadian breeder. It serves to show in a most substantial manner the importance of conserving breeding stock as viewed by British authorities. It is an indication of the emphasis that it is expected will be placed on live stock

development after the war. And if England needs to conserve her breeding stock, how much more will the European countries be in need of stock with which to start anew the herds and flocks now destroyed? The movement of breeding stock after the war will not be from the Old World to the new as in all past years but from the New World to the Old. The demand for dairy breeding stock promises to be particularly keen, and this is a market that every dairy cattle breeder should consider in laying his plans for the future.

Farm and City Wages

ET farmers pay the wages and they will get the men."

When this statement was made by a Toron to employer last summer, just about the time that farmers were paying \$3 to \$3.50 a day for harvest help, it caused a wave of resentment throughout the country. Farmers replied that, when board was coneldered, they were naving just as much as they could reasonably be expected to pay, and that a man would be just as far ahead working for them at the prevailing farn, wage as he would be working in shop or factory for seemingly higher pay. Statistics and estimates recently compiled by the Employment Division of the Ohio Council of Defense, would indicate that the farmers were right.

The Ohio estimates show that a farm laborer, working at \$30 a month, can do fully as well as the city laborer working in the city at \$105 a month, A married man working on the farm at \$40 a month is as well off financially as a married man working in the city at \$100 a month, and at the end of the year will actually have saved more. The apparent difference between farm and city wages is reconciled by a high expense against the city income and a low expense against the farm income. The city worker pays out money at every turn while the farm worker has a free house, garden, fuel and many privileges which make for saving. The farmer-employer, however, has to provide these extras at a considerable expense to himself, and they should rightly be considered in estimating farm wages. The Ohio example might well be followed by our provincial departments of Agriculture here in Canada, and the publication of their findings might do much to remove one cause of friction between farm employers and city workers.

They Acted in Time

YOUNG man in York Co., Ont., took out a life insurance policy for \$4,000. He was just twenty-four years of age, recently married and when examined by a skilled physician was pronounced to be in the best of health. He seemingly had no more need of life insurance than thousands of other young married men who have not as yet taken out policies. He paid his first premium of \$99.60. Just 311 days later, or before he had paid his second premium, this young husband was killed in an automobile accident. His wife, who would otherwise have been penniless, was paid the comfortable sum of \$4,000 by the insurance company.

A man of thirty-nine years, this time in the Province of Quebec, took out a policy for \$2,000 with one of the leading insurance companies. His first premium was \$64; eighty-four days later he contracted pneumonia and died. His wife was paid \$2,000 by the company.

And so we might multiply instances of men who, by their foresight in the matter of life insurance, have provided for loved ones who otherwise would have been cast upon their own resources from the day of the bread-winner's death. We believe that such insurance is as much needed in the country as in the city. It is needed by the old man with no estate worth mentioning and by the young man on the mortgaged farm; and most farms owned by young men, we have noticed, have mortgages against them. In fact, there is only a small proportion of us so well fixed that we can afford to turn the dog on the life insurance agent. The agent who repre sents a reliable company, cannot be regarded as other than a public benefactor and he is always deserving of a courteous hearing at least.

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July 4

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A Senator's Misstatements

DITOR, Farm and Dairy.-I have just been reading the press re-ports of the Montreal meeting of the Canadian Manufacturers' Asso-clation. Your attention must have been attracted, as mine was, by a state-ment made by Senator Nichols that wheat growers were making 200 to 300 per cent. profit on their wheat. Sena-tor Nichols, of course, is wrong. Pro-fits such as this are impossible. I am not surprised, however, that Senator Nichols should speak so glibly of 200 and 300 per cent profits. He knows something about such profits by practical experience, whereas farmers would mention grach figures with bated with the distribution of the senated senated in the senated senated

breath and in uncellef.
Who is this Senator Nichols anyway? When I first heard of him, and I believe it is the same man, he was peddling either washing machines or sewing machines, I am not sure which, sewing machines, I am not sure which, for a living. But Senator Nichola has travelled far since the days of his hunlity. He is now the controlling head of the Canadian General Electric head of the Canadian General Electric Company, and is, of course, a million-aire, probably several times over. He has a country estate up north of Toronto, where he employs enough men on 17 acres to work several good jobacre farms, and that on the abso-lutely unproductive and unnecessary work of landscape gardening; I mean, unnecessary in war time. To travel from a position of nothing at all to affluence such as this, Senator Nichols must have been very familiar with profits of 200 and 300 per cent. and even more. Such financial success as

eren more. Such inancial success as his is never possible through productive work such as farmers do. the work such as farmers do. The succession of the farmer. For the second time in the history of our industry, we are getting returns commensurate with our capital investment and the labor involved. The first occasion was during the Russian war. These are returns such as any business man would expect, and rightly, in normal times. There is no war-time should we add to our burdens a higher protective tarff in order that we may add still more to the over-grows fortunes of such men as Senator Nichols? Am I sore? Well, perhaps I am. It would make anyone hot under the collar to have his business so grossly misrepresented as the Senator has collar to have his business so grossly misrepresented as the Senator has misrepresented the industry of farm-ing.—C. T., Peterboro Co., Ont.

Inexperienced Help

DITOR, Farm and Dairy.—The farmers of Canada will, very shortly, have to undertake the harvest work with the help of green labor. In this connection they should should adjust the work throughout the farm to suit the new conditions, and they should begin right in their own

The best recent illustration of what The best recent illustration of what can be done in an emergency when enly inexperienced men are available, is that of the battle of Picardy, when the fifth army, under General Gough, was overwhelmed and outnumbered. It locked inevitable that the Huns would break through and capture the city of America the Picard Control of the Contro city of Amiens, which would have meant the interruption of railway com-munication between Channel ports and Paris, cutting off the British from one of their chief bases of supplies one or their chief port men, or whatever they were, and organized them to fill the breach. With the fifth army failed to do—he held the line! With no training in trench

warfare, and no fighting organization before that time, General Carey ga-thered them together, and this unodes-cript gathering of troops kept the Huns back for six days and nights until reenforcements arrived. General Carey did not say "I can't use this un-trained class of men." but he set to

carry of not as y 1 can't use use in-trained class of men." but he set to make the best of them, and he suc-ceeded in awing the British army and its allies from a desperate crisis.

Similarly, if the Canadian farmer makes up his mind that these are war times and war measures are necessary, there is absolutely no doubt he can utilize, to a tremendous advantage, the man-power and woman-power of the man-power and woman-power of the ling to so this assistance, if they are organized to do so. He must not ex-pect them to be experienced and to know as much about the details of farm work as he does. It has taken him a life-time to acquire his informa-tion. Townspoople have spent their tion. Townspeople have spent their lives at different work, but with his knowledge of farming and his intimate acquaintance with his farm and all its needs, he should have the ability to organize inexperienced help and show each helper his or her particular job and how best to accomplish it. A few and now dest to accomplish it. A rew hours patient teaching in any one par-ticular line of work will very soon enable a greenhorn to "Carry on," as they say in the army. By patience and consideration the farmers of Canada can, without question, effect an organization from green but willing help from town, that will not only surprise themselves, but will also be of tremendous benefit to the Empire by the increased results of their harvest.

-Canada Food Board.

The Farmer's Luxuries

DITOR, Farm and Dairy.—It would be interesting to calculate what salary or income the city man would need, to possess the privileges (he would call it luxuries) of the ordinary farmer. Anyone can see that a salary of \$2,000 would not warrant the city man in keeping a town of the continuous properties of the city of t a buggy, harness, single and double, single and double sleds to do any hauling he might have to do, as fuel, etc., like the farmer in winter, and to be able to feed those horses through six months of winter in the stable; to ask months of winter in the stable; to keep a cow, or two of them, to furnish him (the city man) with milk and butter and cheese for his family; to keep a few sheep and a pig or two to furnish him periodically with fresh meat; to keep a flock of hens for fresh eggs and poultry products, and to have yard-room and the necessary buildings to comfortably house all those animals, tools, etc.; to have a garden, and maybe a small orchard, and above all, to be able to feed all those animals, particularly a year like this winter, with hay \$20 a ton and oats nearly the dollar mark, mid-dings, bran and odi meal, which he farmer finds necessary to purchase, at the present figures.

farmer finds necessary to purchase, at the present figures.

The city man could not possess these luxurious privileges on a salary of \$2,000 a year. He would at least need \$3,000 well, most farmers possess all those privileges which, in the city, would be called luxuries. And most of these things are, in winter, luxuries to the farmer also. Should the farmer then grow because of his conditions? Surely the farmer is the king amongst men; for in no vocation on earth could no keep and possess so many privileges and comforts as the farmer. It is not strange possess so many privileges and com-forts as the farmer. It is not strange that the farmer cannot show very much of a profit at the end of the year, seeing that he lives so expen-sively—as exponsively as a city man enjoying an annual income of \$3,000. Parmers complain of being "ground down," and that all their products go to pay out for this and for that. True, and how could it be otherwise

(Continued on page 19.)



Waste Nothing

This is no time for "cream slacker" separators or wasteful methods of skimming milk.

With butter-fat at present prices and the Food Administration begging every one to stop waste, "cream slacker" methods of skimming milk must go.

Whether you are trying to get along without any cream separator or using an inferior or partly worn-out machine, you are wasting butter-fat and losing money.

Get a De Laval and save ALL your cream

Viewed from every standpoint-clean skimming, ample capacity, ease of operation, freedom from repairs, durability-there is no other cream separator that can compare with the De Laval.

Order your De Laval now and let it begin saving cream for you right away. Remember that a De Laval may be bought for cash or on such liberal terms as to save its own cost. See the local De Laval agent, or, if you don't knew him, write to the nearest De Laval office as below.

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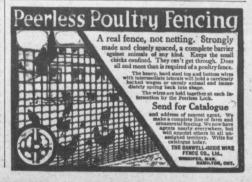
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When examining copies submitted, don't overlook the fact that you can never pay all that the good copy is worth; but any price is too much for bad copy.



758

OUR FARM HOMES

A BSENCE of occupation is not rest,
A mind quite vacant is a mind distressed.—Cowper A City Lad's Delusion

By Mrs. J. G. Eastman.

(From the Nebraska Farmer.)

CHAPTER I The Truant.

RS. JASPER H. WADE sat in M RS. JASPER H. WADE sat in the boudoir of her apartments and read with knitted brows and tightened lips the note that acand tightened lips the note that ac-companied the semester's report of her son, Elmer Wade. Elmer was in the seventh grade, at Lowell School. The note, signed by the principal, requested the parent or guardian of the pupil whose report was enclosed to pupil whose report was enclosed to call at his very earliest possible con-venience. A casual reading of the re-port gave very plainly the reason; no subject showed a passing grade and the deportment and attendance were very poor as well.

Mrs. Wade's countenance grew

Mrs. Wade's countenance grew darker as she read; she was rather a handsome woman; but at the pres-ent moment you would never have guessed it. Nature had plainly de-signed her for spinsterhood, but a clever matchmaking mother thwarted fate. She was a social success and a well known club woman, but after tourteen years of motherhood she had no more understanding of the in-nermost workings of a boy's heart than has the mother hen of the in-stinct that carries her ducklings into the pond.

Mrs. Wade had a horror of unpleas ant things; she loved to stand, clad in a fashionable and becoming garb, before a room full of admiring club members while she read in modulated tones the carefully chosen words of a paper upon the needs of the slums, but the fact that her only child was fast drifting into these same slums was too disagreeable to be given even a thought.

a thought.
With note and report carefully read,
Mrs. Wade drew her desk telephone
toward her and called her husband's
business number. Jasper Wade was
the confidential employee of a large
meat packing company and carried on
most of the Afrin's business outside of Chicago. He was home only once or twice a month and then usually but a day. He was in Chicago then and was to leave the city early next morning, so Mrs. Wade was very prompt to call him and deliver the principal's message.

message.
"Hum-um," came the answer, "I
don't see how I can go. I've got work
enough here to keep me jumping 'till the eleven-ten car; can't you see to

"Why, I might, but I really feel you ought to see 'to it, Jasper; the principal might not feel free to talk to a lady as he could to you, you know."
"Oh, I suppose I can if I soust; awful bother though. By the way, where's Elmer now?"

"He hasn't come home from school

"Humph! My watch says five-fif-"Humph! My watch says nve-ni-teen; you ought to look after him bet-ter than that, Grace; it's all you have to do and if anythire's wrong, you can blame yourself for"—a sharp click of the distant receiver told him he was wasting valuable time in a onesided conversation. He re-opened the subject, however, when Mrs. Wade joined him at breakfast just before his departure the next morning. His work having detained him until late the previous evening, this was their first meeting.

irst meeting.
"I saw that principal," he began
abruptly, "and things are in a fine
way, I must say. He tells me that
Elmer isn't in school half the time,
but runs the streets with a gang of
young toughs. He'll land in the re-

it all settled, I'll carry out my plan

en if it is rather disagreeable?"
Weighed down by such a threat,
rs. Wade lost no time in writg. She feverishly awaited the MPS. ing anewer o wer. It came promptly, not heavy, up-to-date stationery such Mrs. Wade had used, but written in a neat hand that was easily read if not fashionable. It ran

"Dear Cousin: When we first read your request we were inclined to re-fuse, for we think that the place for a fourteen-year-old how is with his a fourteen-year-old boy is with his parents. But since you have lost control of him and have failed as a mother we will do what we can, not mother we will do what we can, not as you say to save your name from lasting disgrace, but to keep a young life from being marred and perhaps ruined. Let us know what day to meet him as we live several miles from town. Ever your loving cousins,

Mrs. Wade was filled with various emotions. She resented her cousin's emotions. She resented her cousin's plain way of saying that she was a miserable failure; but at least she had gained her point and had escaped going to some "desolated farm" and with this knowledge she went to break the news to unsuspecting Elmer, who

Lest you judge him too harshly, it should be said that there was no reashould be said that there was no rea-son for Elmer to stay at home; he had no tasks of any sort, his chums were not welcome there, and he had

Doing a Man's Job to Relieve the Labor Situation.

One of the tasks which our country girls can accomplish quite successfully during this time of labor shortage is here illustrated.—taking charge of a rural mail route. One might consider this quite, hard-hip where to be endured. The young laby in the illustration is Miss Ruth Manson, Waterloo Co., Ont.—Photo by an editor of Farm and Dairy.

form school soon and that will be a fine blot on the Wade and Vinton "Oh, Jas er! How can you say such unpleasant things? I'm sure 4t isn't

my fault-

"That won't keep your friends from pointing the finger of scorn at you, but I'll arrange it. He said for us to get Elmer away from town life. advertise for a farm place where you and he can board and

"I! A farm? Jasper Hubbard Wade, don't think for a minute that I'm going to board on a farm in the winter! It's impossible and very un-thoughtful of you to suggest such a thing; so unreasonable!"

"But Grace, I don't see any other way; we can't send the boy alone among strangers, and we haven't either of us a relative living in the

ountry where he could go."
Mrs. Wade caught at the word "relative" as a drowning man catches at straw.

"Why I have, Jasper. Haven't you "Why I have, Jasper. Haven't you heard me speak of my cousin, Elizabeth Linsey? I haven't seen her for years, but I believe she would take him for awhile; she lives on a farm in Nebraska. I'm going to write to her this morning and ask her."
"See to it before I get home then."
Mr. Wade advised, "for if you haven't.

no room to which to take them. dren are not considered in flat build-ings; Mrs. Wade had used the extra bed room for her maid and had fitted up an adjoining alcove for Elmer.

When Mrs. Wade went in. Elmer was seated in the dining room, the most nearly livable room he could find. He was doing nothing, or worse than nothing, for a cigaret stub lay smouldering in the grate; his face, as he gazed out of the window at the dreary February rain, was a mixture of shyness, so natural and pleasing in a boy of his age, yet it was overshadowed by an acquired boldness and pertness. He looked discontented, yet too unambitious to rouse him self to effort. He was rather under-sized for fourteen and his complexion had that waxey hue that tells of too much candy and sweets and too little to sunshine and tingling exposure wind.

"Elmer," said Mrs. Wade gayly, trying to sugar coat the bitter pill she was offering, "my coust, Elizabeth Linsey, has invited you to visit her, and knowing how much good it would do you, I've accepted for you!"
"Aren't you feeling well, Moms?" Elmer asked listlessly without rising.

"About as well as usual." Mrs. Wade fondly believed she was a great sufferer and pressed her hand to her side where she might have had a "Why, don't I look well to Gars

y?"
"Oh, you look all right, but you talk vful queer." Mrs. Wade flushed.
"You may joke, but it's a settled awful queer." fact

"A fact that I'm not going Elizabeth doesn't listen good to Wil-lie. Bet she's an old maid with half lie, Bet she's an old maid with half a dozen pet cats. What gave you such a notion, Moms?"
"Your school report and the princi-

pal. He says you go with a gang of low fellows who smoke and gambia low fellows who smoke and gamble and do things worse, and that send-ing you to the country is the only way to save you from a reformatory.

A MADE-IN-NEBRASKA SERIAL

A MADE-IN-NEBRASKA SERIAL

CITY people very often have a mistaken idea about farm peocontact with the farm usually discussed in the peocontact with the farm usually discussed in the people of the people with the delay of the people after, all are human and progressive, that their work and progressive, that they work and progressive, that they work and people after, all are human and progressive, that they work and people after and people after and people after with judgment and story of a city by on a Nebraska farm, and is written by a people after and in the people after a people with the people after and in the people after a people after coming to the farm he learns that interested companionship, inhappiness, rather than wealth and gleieness. The story also brings dor bad, broadens as the ripps of the whole compass of a radius to the anticipate that Our Folks will be much interested in this story.

Your father will take you as far as he

Your rather will take you as far as as goes on his next trip. That will be about Thursday of next week."

At mention of his father, Elmer despaired. He could tease or coax mother to do or not to do almost any "Darn old Hornby," muttered El-mer. "Our crowd ain't so bad. I

guess he's forgot he ever was a boy himself. You're going, too, ain't

"I'd just love to, Elmer. I'd enjoy visiting dear Elizabeth, but I can't this year. Father would have to close the house and board, and that costs a great deal. Besides my social duties

great deal. Besides my social duties are such—"
"Aw, cheese it, Moms. Say you couldn't be hired to go, and be done with it. Say, what will you give me?"
"Why, I don't know, Elmer; if you will stay a month I'll send you tea dollars and—"

"Stay a month. On a farm-Not much; I'll run away and join the I. W. W.'s and you'll never see me again!" Snatching up his cap, Elmer was off to find companionship in a friendly pool room

Less han a week later he was gazing mo dily from the car window at the flying telegraph poles and rich rolling farms of western Iowa. His tather had placed him under the watchful eye of the conductor and bidden Elmer an awkward farewell at the last junction. Mr. Wade was fond of his son, but he had never taken time to become really acquainted, and hardly knew what to say.

Alone, at last, Elmer's spirits reunknown adventures before him. had never been on a farm, and thought it would be horrid. He pictured Cousin Elizabeth as an exact likeness of his mother, but more strong mind-ed, since she was to reform him. Yet youth is ever hopeful and adventure-waits always beyond, so the time passed quickly and the train some rolled across the "Big Muddy." He changed cars with the aid of the trainman his father had tipped, and then jolted along on the little branch line to Fairhome, his journey's end. (Continued next week.)

The U

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66] N returni saved; -Isa. xxx. 15. "Re silent patiently for uly my s Ps. lx. 1 (m

life that regar

each to do the that little def that little der must do his he expect Gos those who this difficult to und means when still and doing God. It appe contradiction quietness and or the convet of man and all hi is just what i tery is to be f God and man idea of a partners who share to a wo very different that of coopers dination. As pendent on th ords s and believer W of himself. self is altoget doing, and wa effort, faith ass what He has u him. And wha to sanctify, an just in proporti a truly passive hand of God, God as the ac almighty power nassivity with most complet

tian life is. Among the l those who are art of abiding i more needful than this one it alone can w abieness of spi will reveal Hi ness to which I the spirit e in all the three only answer to revelation ever "Behold Lord; be it unt word"; and o multiplied arou 'Mary kept all dered them in I who "sat at J His word," and accointing Him had entered m mystery of His beloved discipl who sought her the Pharisee, more than wor unto God that for knowing Je fast the blessin when the soul and worallp he that reveals it still small voic

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The Upward Look

In Stillness of Soul

N returning and rest shall ve be saved; in quiqtness and con-ndence shall be your strength."

lsa xxx. 15.

"Be silent to the Lord, and wait patiently for Him."—Ps. lxxvii. 7 uly my soul is silent unto God."

Ps. Ix. 1 (marg.),
There is a view of the Christian There is a view of the Christian life that regards it as a sort of partnership, in which God and man have each to do their part. It admits that it is but little that man can do, and that little defiled with sin; still he that little deflied with sin; still he must do his utmost,—then only can he expect God to do His part. To those who think thus, it is extremely difficult to understand what Scripture means when it speaks of our being means when it speaks of our being still and doing nothing, of our resting and waiting to see the salvation of God. It appears to them a perfect contradiction, when we speak of this quieiness and ceasing from all effort as the secret of the highest activity of man and all his powers. And yet this is just what Scripture does teach. The explanation of the apparent mystery is to be found in this, that when God and man are spoken of as working together, there is nothing of the ing together, there is nothing of the jdea of a partnership between two pariners who each contribute their share to a work. The relation is a very different one. The true idea is that of cooperation founded on suborthat of cooperation rounded on subor-dination. As Jesus was entirely de-pendent on the Father for all His words and all His works, so the believer can do nothing of himself. What he can do of himself is altogether sinful. He must doing, and wait for the working of God in him. As he ceases from self-effort, faith assures him that God does effort, faith assures him that God does what He has undertaken, and works in him. And what God does is to renew, to sanctify, and waken all his energies to their highest power. So that just in proportion as he yields himself a truly passive instrument in the hand of Ged, will he be wielded of God as the active instrument of His aimighty power. The soul in which the wondrous combination of perfect passivity with the highest activity is most completely realized, has the despent experience of what the Chris-

tian life is. ablences of spirit, to which the Lord will reveal His secrets,—that meek-ness to which He shows His ways. It is the spirit exhibited so beautifully is all the three Marys: In her whose only answer to the most wonderful revelation ever made to human being was. "Behold the handmaid of the was, Boasic the sandman of the Lord; be it unto me according to Thy word"; and of whom, as mysteries multiplied around her, it is written: word: and of whom, as mysteries multiplied around her, it is written: "Mary kept all these things and pendered them in her heart." And in her who "rai at Jesun' feet, and heard the said of the said will be heard.

One would think that no message could be more beautiful or welcome

than this that we may rest and he than this, that we may rest and be quiet, and that our God will work for us and in us. And yet how far this is from being the case! And how slow many are to learn that quietness is blessedness, that quietness is strength, that quietness is the source of the highest activity—the secret of all true abiding in Christ! Let us try to learn it, and to watch against whatever interferes with it. The dan-gers that threaten the soul's rest are

not a few.

There is the dissipation of soul which comes from entering needlessly and too deeply 1.0 the interests of this world. Every one of us has his Divine calling; and within the circle pointed out by God Himself, interest in our work and its surroundings is a in our work and its surroundings is a duty. But even here the Christian needs to exercise watchfulness and sobriety. And still more do we need a hely temperance in regard to things not absolutely imponed upon us by God. If abiding in Christ really be our first aim, let us beware of all needless excitement. Let us watch even in lawful and necessary things even in lawful and necessary things against the wondrous power these have to keep the soul so occupied, that there remains but little power or that there remains but little power or zest for fellowship with God. Then there is the restlessness and worry that come of care and anxiety about earthly things; these eat away the life of trust, and keep the soul like a troubled sea. There the gentle whis-pers of the Holy. Comforter cannot be heard.

be heard.

No less hurtful is the spirit of fear
and distrust in spiritual things; with
its apprehensions and its efforts, it
never comes really to hear what God never comes really to hear what God has to say. Above all, there is the unrest that comes of seeking in our own way and in our own rength the apiritual blessing which comes alone from above. The heart occupied with its own plans and efforts for doing God's will, and securing the blessing of abiding in Jesus, must fail continually. God's werk is hindered by our heart of the work perfectly only for the work perfectly only for the work perfectly only for the work in the work of the will be the work perfectly only for the work perfectly only for the work in the work of the will be the work of the will be the work of the will do his work in the work of the will be the work of the work of the will be the work of the will be the work of the will be the work of the work o by expecting Him to work both to will

And, last of all, even when the soul seeks truly to enter the way of faith, there is the impatience of the flesh, which forms its judgment of the life

there is the impatience of the fleah, which forms its judgement of the life and progress of the soul not after the Divine but the human standard. In dealing with all this, and so much more, blessed is the man who learns the lesson of stillness, and fully accepts Ged's word: "in quietness and confidence shall be your strength." Each time he listens to the word of the Father or asks the Father to listen to his words, he dares not begin his Biblic reading or prayer without first pausing and waiting, until the noul be hushed in the presence of the Eternal Majesty. Under a sense of the Divine searness, the soul, teeling how self is always ready to assert itself, and intrusid even into the holiest of all with its theughis and efforts, yields little and the presence of the Strength of the Divine Specification, and working of the Divine Specification, and presence, the reading and prayer then indeed become a waiting on God with ear and heart opened and purged to receive fully only what He says.

"Abide in Christ!" Let no one this the has well has the list is the nice of the list has a waiting on God with ear and heart opened and purged to receive fully only what He says.

"Abide in Christ!" Let no one this the has well had the says.

"Abide in Christ!" Let no "Abide in Christ!" Let no one thak that he can do this if he has not daily his quiet time, his seasons of meditation and waiting on God. In these a habit of soul must be cultivated, in which the believer goes out into the world and its distractions, the peace of God, that passeth all understanding, Keeping the heart and mind. It is usuch a calm and restrain soul that the life of faith can to the control of the control describing that the Holy Fairt can give he can coomplish His

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nd Your Answers This Very Evening



Only boys and girls nder 16 years of age say send answers and ach boy or girl desiring is entry to stand for he awarding of the

prious work. May each one of us learn every day to say, "Truly my soul is silent unto God." And may every feeling of the difficulty of attaining this only lead us simply to look and trust to Him whose presence lead us simply to makes even the storm a calm. vate the quietness as a means to the abiding in Christ; expect the ever deepening quietness and calm of heaven in the soul as the fruit of abiding in Him

Training the Children No. 3.

Train Children to be Happy Mrs. M. C. Jackson

ET the children take hold and Left the children take hold and help about the house a little. At four and a half years old they can wash dishes, and they love to do so. An oilcloth apron will keep them so. An olicioth apron will keep them dry. They can also help make beds, brush up crumbs and do many other things. But we must not nag the children at their tasks, remembering that interest in useful work may be most successfully developed by keep ing it in the realm of the play spirit.

We have churches and schools to help in our work with our children. but it comes back every time to the but it comes back every time to the parents and the home to develop in the children the simple practices which lead to right and happy living.

which lead to right and happy living.
We must be patient in answering
questions, and if we do not always
know the answer, let us try to find
out with the children. Fun is as natural as breathing to most children. Try to laugh with them at their simple jokes.

Let us take a little time at the end of the day, if we can, to tell a short story. The quiet will do us all good. Perhaps we may have seen a bird, squirrel or a child do some amusing thing as we glanced out of the window while at work. The wind may have been chasing the pretty leaves, or the sun playing hide-and-seek among the clouds. Stories are not all to be found in books. It is a big accom-plishment to learn to do things in the child's way—things they like to do but which we have often denied them because we felt we didn't have time to be bothered.

If the little ones see that mother and father are trying to find something to love in all their trying tasks, before we know it the home will al-ways be full of sunshine. If we have fretful child to deal with, find out first if he is being properly nourished; then try telling him stories which will take his mind off himself.

Many children are often disagree able because they haven't enough of the right things to do, such as games and songs, that provide activity and stimulate the mind and occupations that answer the child's need to be doing and making something.

most important point for the mother to realize is the necessity of sticking to the lessons she needs to teach every single day until the right habits are permanently formed in her child.

No one can tell us things it is best to do with children But if we begin to watch and think, read when we can and exchange experiences with other mothers many suggestions will be found to meet our needs. Take a glimpse backward into your own childhood and many ideas will occur to you in that way. And through it all we will find that the children are helping to bring us up, too. Courage and joy prolong life, and we can well afford to stand and wait, feeling sure that if our motives have been right and we can find something to love even in the hard things of life our little ones will see and know and will "rise up to call us blessed." Milk in the Diet

EW of us realize the full value of milk as a cheap food. The aver-age person thinks of milk only as a beverage and uses little more than a cupful a day. Milk, as a food than a cupful a day. Milk, as a food, supplies body building material and energy for carrying on the body func-It is justly called the almost perfect food. There are innumerable ways of using milk in cookery. Milk may be used in sauces, soups, pudmay be used in sauces, soups, pud-dings, blanc-mange, junket, etc. In addition we have a great many recipes in which we use sour milk as in sour milk pie, sour milk charlotte in sour mink ple, sour mink charlotte, in making cottage cheese and in gingerbreads, griddle cakes, etc. Junket is one of the simplest desserts to make, and is delicious in warm weather when served with strawber. ries or fruit juice. It is made as fol-

1 quart of milk; % cup sugar teaspoon vanilla; 1 junket tablet teaspoon vanilia; I junket tablet dis-solved in 1 tablespoon cold water, Heat the milk in a double boller un-til it is lukewarm. Add the sugar and stir until it is dissolved. Stir in the vanilla and junket and pour it into a serving dish or glass cups. Let it stand in a warm place until it begins to thicken; then set in a cool place, and leave until it is firm.

be made into cottage cheese which may be used in salads, and in place of the ordinary mild cheese in cook. or the ordinary mind cheese in cook-ery. To make cottage cheese proceed as follows: 1 quart thick sour milk; 2 teaspoons butter; % teaspoon sait; cream enough to make cheese moist. Heat the milk in a double boiler;

as soon as the curd separates from Suspend cloth bag so that it may drip for an hour. Place the curd in a bowl and with a spoon mix to a smooth paste with the butter, salt and cream, Serve lightly heaped up or in small

Substitute Experiences Requested

H ERE is a letter from one of our readers in Peterboro county, and we hope several will send along suggestions which will be help. along suggestions which will be help-ful, not only to this particular en-quirer, but to many other housewives who no doubt are interested along the same line. The letter follows:

"I would like to know what some of the women who read Farm and Dairy think of the substitutes for wheat flour and what success they are hav-ing with them. I am anxious to use as many substitutes as I can, as I realize the necessity of doing so, but somehow I do not have very good bek substitutes when it comes to baking. For instance, the other even-ing we had company for tea, so I decided to try some muffins or tea bis. cutes made from a new recipe. I suppose it wasn't a very wise thing to try a new recipe when visitors were on hand, but I did it anyway. It was a combination of white flour and corn meal, and while the biscuits didn't taste badly, they were as flat as pancakes. Can anyone tell me how to make things which contain corn meal rise Hghtly?

"There is considerable talk nowadays about making potato bread. Would someone who has tried this kind of bread send along their recipe, as I am anxious to try it out."

In connection with the use of sub-stitutes the United States Food Administration suggests that better results will be secured by mixing two substitutes than if one is used alone. For instance, rolled oats (ground) and corn flour make a good combination, also barley flour and rice flour, buckwheat flour and potato flour, peanut flour and sweet potato flour, soy-bean four and corn meal. Of course some of these flours cannot be secured on this side of the line, but the only way in which we are likely to have them

July 4, 191

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Farm and Dairy is in an excellent position to champion the cause of the farmer in Canada, because it is owned and controlled exclusively by farmers. available is to continue asking for twist the fibres and burn, noticing them.

Al. measurements of substitutes should be accurate. The batter may look too thin or too thick, but if measurements have been followed exactly the result after baking should be good. Substitute mixtures should be good. Substitute mixtures should be baked longer and more slowly than ordinary flour. Drop biscuits are said to be better than rolled biscuits when

to be better than rolled biscuits when substitutes are used. Will some of Our Women Folks send us their experiences with substisend us their experiences with substi-tutes and recipes which will be help-ful to our readers? And don't forget about a potato bread recipe if you have tried one out successfully.

Difficulty in Filling Orders

HE Women's Farm Department reports still more girls being placed on mixed and dairy farms

placed on mixed and dairy farms in placed on mixed and dairy farms in placed in the early spring. One farmer wrote to the Women's Farm Department as follows:

"Yesterday Mr. —— called to see how he could procure two girls for farm work from now until after harvest." He adds: "Do you think it possible for a number of girls to manage a threathing oitfil in the same age a threshing outfit in the same way that men do in the west, and thresh by the bushel? The girls who are here now can handle machinery and almost everything the ordinary man can do.

This letter came from a district that two months ago was afraid to try girl help on farms at all.

Two months has seen a great in many districts of Ontario to the farmerette. The Women's Farm Department now has difficulty in find ing enough experienced girls to fill the orders that come in.

A number of women experienced in atdoor work are still available during July and August only. A few wo-men have applied for work in butter factories, but as yet no orders have come in for that kind of worker.

come in for that kind of worker.

Several girls are now doing successful work in a cheese box factory, while one drives a truck and delivers the boxes. A number of girls are now handling milk routes satisfactorily.

Fruit growers, truck farmers, mixdairy farmers, cheese managers, may still apfactory managers, may still apply to Miss Martin, Director of Women's Farm Department, 43 King St. West, Toronto and secure help.

Testing for Adulterations

T is quite a problem to-day to pur-chase material that will give good service either in cotton, silk, linen or wool. Here are some tests which are worthy of trying out when one gets a sample before deciding to make a purchase.

To test cotton rub the material between the thumb and finger to detect the presence of sizing or starch or if the cotton is quite fine and fine and loosely woven the particles of starch can be seen if held up to a strong

If we make the purchase of a new silk dress or suit this season and it wears well, we may consider our-selves fortunate, as it is such a diffi-cult matter to secure good silk. Here is a way to test its quality: Place a small sample on a plate and touch a match to it. If the sample after being burned retains a decided shape the loading or adulteration is heavy but if the fabric burns down to ashes there is little danger of the slik cracking or splitting after being made

We are told that linen will soon be off the market altogether and that we will have to be contented with cotton tablecloths. However, a way to test pure linen is to apply olive oil to a sample. The linen fibre will show transparent. If cotton is present it

remains opaque.

And how about testing wool? Un-

ly and curl up into a black, crisp cinleaving a disagreeable odor the fibre is cotton it will burn quickly and brightly, leaving a light ash behind. This, we are told, is not albenind. This, we are told, is not al-ways a conclusive proof, but a fur-ther test may be made by boiling a sample of the goods in a four per cent. solution of sodium hydrate. The animal fibre will disappear, leaving the cotton background. bably there are not very many of us who would go to this trouble, al-though there may be times when we are particularly anxious to secure material "all wool and a yard wide," and are willing to go to considerable trouble in order to do so

HOME CLUB

Help for Our Farm Women

HAT do Home Club members think of the idea of securing girls from the city to assist the farm women in the home throughout the busy summer months? ceived a letter from an interested reader of this department a few days ago and a part of her letter reads as follows:

"I really don't know what we are to do in regard to greater production. It has been an effort in other years, and now with a greater shortage of help, what will it be? The women have been what will it bo? The women have been helping bravely, but is it not unfair to ak them to help with farm work when one considers the necessary work around the farm home? With cooking, sweeping, washing, poultry and milking, to say nothing of the kitchen garden, how long will the women be able to stand more work? I know that I dread the coming summer. Am just dread the coming summer. Am just provided the coming summer and provided the coming summer and provided the coming summer. Am just provided the coming summer and provided the coming summer and provided the coming summer. Am just provided the comment of the comm brought on by work in the sugar bush.
"I can get a young girl out of school for one dollar a day and her board. Imagine! I have a friend who is a stenographer and she is getting nine dollars a week. Out of that she pays six dollars and a half for board, leaving six dollars. her \$2.50, to say nothing of the expense that she was under in getting her training. But when girls come to the farm they expect six dollars a week clear. Sometimes I feel sorry for the farmore "

We would like our Home Club me bers to discuss this question of help for the farm women and to give their own experience or make suggestions which they consider would be helpful to those who are "up against it" in their efforts to accomplish the many duties around the home, and help the men folk to some extent as well

Assistance for "Aunt Greta"

LINT Greta" asked for advice re floors. I cannot speak from personal experience, but I have a sister-in-law who has a nice "comfy" home and she is gradually acquiring all hardwood floors. She says eventually she will have them all over the house. They are so sanitary and labor saving, and though they seem expensive at the time, they are really as cheap in the long run when you consider how often lineleum or rugs have to be replaced, while hard-wood, if properly looked after, is "a thing of beauty and a joy forever."

The ideal time to churn on the farm is early in the morning. The butter works better and prints better before the day becomes hot.

"How do you get rid of your stale bread?" asked one woman of another." I simply hide it from my children,"

said the second housewife.
"What happens then?"
"They find it and eat up every morsel."

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(17)

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apring watered pasture for big
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The Makers' Corner

Butter and Cheese Makers are I fted to send contributions to the epartment, to ask questions atters relating to cheese making and to suggest subjects for discu

Milk Prices in Ontario

HE price paid for milk dairy factories in Ontario is now fairly uniform. The Horden lensery at Tillsonburg has an nounced a price of \$1.85 a cwt. for June milk on a basis of three per cent fat with three cents for each addi-tional one-tenth of one per cent of fat. ticual one-tenth of one per cent of fat, or with three cents deducted if the test runs lower than three per cent. Commenting on the situation, J. A. Ruddick, Dominion Dairy Commis-sioner and member of the Dairy Produce Commission, writes Farm and Dairy as follows:

"I have just returned from a trip through Western Ontario and I find that the choese factory patrons are well satisfied with the present situa-tion, as the condenseries are paying practically the same as the cheese

practiceally the name as the classes factories are paying.

"The Canadian Milk Products Company are paying \$2.02 for 3.5 milk for the mouth of June. Choses at 23 cents on the same basis of 3.5 milk us 15 cents per hundred pounds for

whey brings \$2.08.
"I met a large number of farmers in a motor trip of over 300 miles last fied with the price except that the patrons of the condenseries are com plaining that the attitude of the cheese factory patrons has resulted in a lower price for the milk sent to the condenseries. That is not quite correct, as I think the parity of the prices would have been arrived at in any case.

The condenseries at Ingersoll and other places are paying about \$2 for 2.5 milk or \$1.91 for 2.2 milk, which is about the average percentage of fat at present. The cheese factories will probably pay from \$1.70 to \$1.75 and even higher during the month of June Add to that the value of whey and there is little difference.

The Cost of Handling Cheese

HE salesmen at the June 14th meeting of the Picton Cheese Board expressed themselves very reely as to the price being paid them for cheese by Montreal exporters. In reply, Mr. A. Jones, of the firm of Jones, Grant, Lutham, Limited, Montreal, submits the following data in proof of his contention that all cheese purchased in advance of 22% cts. means a loss to the exporters:

Memo. of 150 Cherry Valley cheese shipped from Picton and paid for on the 4th June, 1918, follows:

150 B-C net weight 12,866 lbs., bought at 22 9-16 cents, Lo.b. \$2,900.63 Picton

xchange on draft
aid our buyer 1-8 cents commission, for which he guarantees quality and weights
Montreal tees quality and weights a Montreal Montreal Montreal 15,000 lbs. at 22 cents per 100 lbs.

Cartage from boat to warsper 100 lbs.

Warehouse and atorage charges, 150 boxes at 5 cents per box

Office expenses on 150 boxes at 5 cents per box

Cartage outwards, warehouse to boat, 160 boxes et 5 cents per lox 16.07 28.90 4.50 4.50

7.50 boat, no boxes at a come po box.
Wharfage and port warden charges, 1 cent per box ...
War risk insurance whilst on dock, 5 cents per 100.00 Three weeks and 2 days inter-est on \$2,550 at 5 per cents.

\$2,983,65 Total

By 12,856 lbs. cheese sold Commission at 23 cents per lb...

Actual loss on transaction ... 2,956.88

These cheese were paid for at Picton on June 4, 1918. Received in Mon-

treal, June 7; tendered to commission. June 8; inspected by Commission. June 10; shipped on instructions from Commission, June 17, on 8.8. Siellan, and will not be paid for by them until boat is out to sea, when—we do not know—as we are informed that boats are held and sail only on instructions are held and sail only on instructions coolstorage the cost will be about six cents ger box higher. conta ner boy higher

Hot Weather Suggestions on the Care of Milk

By Prof. H. H. Dean. T is one of the anomalies of life that the sources of our greatest pleasures and greatest means of may also be sources of life's greatest pains and most harm. Milk is a case in point. Milk is the best source of life's greatest need—pronor and sufficient food. It may also be a cause of the destruction of life. because it may become the home or ing organisms which are now recog-nized as the cause of practically all deaths, except those due to acci-dent or old age.

Fortunately we have comparatively simple methods of comparing the effects of what are combating the effects of what are called pathogenic (disease-produc-ing) bacteria. These may stated in a few short rules as follows:

1. Milk which is consumed in a from cows which are healthy. Milk given from cows which are sick, which are not "good-doers," and especially milk from cows with a cough, must be pasteurized.

2. As soon as the milk is drawn from the cow it should be cooled to 50 degrees F. or lower, and be kept at that temperature until consumed. This makes an unfavorable condition for the germs to grow in.

3. All pails, strainers, dippers, milk bottles, pitchers, etc., which come in contact with the milk, must be thoroughly washed and prefer-ably steamed, or be rinsed after washing in a chloride solution, which has been found to be one of the best germicides. 4. Milk should not be exposed to

the air any longer than absolutely necessary, as this seeds the milk with a fresh lot of germs. This means the keeping of milk in a closed vessel and not in an open

"Left-over" milk from should not be put into the general supply, as this causes the whole lot

"Left-over" milk from the sick room should be pasteurised or de-stroyed, as it may spread disease. 7. Milk at all times and in all places should be kept CLEAN and

Canadian Cheese in London

THE following summary report has been received by the Dairy and Cold Storage Commissioner, from A. E. Griffith, the cargo inspector employed by the Department of Agriculture at London:

Except for about half a dozen ship ments at the beginning of the season the bulk of cheese arriving at this port has been "hooped" with 2 bands of thin flat iron of about three-quarters of an inch in width, passing at right angles vertically round each box. The bands pass under the outer rim of the lid, and short nails with a wide head ure these bands to the boxes. This method has superseded the expensive and somewhat heavy square box in which cheese was packed for the War Office authorities in former years, and, for the purpose for which it is intended, it would be difficult to imagine a method which would en-able the round boxes to be landed here in better or more sound condition. Oc-casionally the outer edges of the lids have been torn or frayed, but gener-ally speaking the effect of this banding has been to do away with break age in the boxes, and shipment after shipment has been landed here with hardly any boxes in any way damaged

For commercial purposes this band ing would probably make too perma ing would probably make too perma-nent a package, and would ont tend to facilitate the inspection and testing of the cheese, but for the purpose for which it is now being used it would be hard to improve upon.

Heated Cheese More Numerous

The comparatively small quantities of cheese imported for ordinary civilian use, which were received here to the order of the Eritish Board of to the order of the British Board of Trade, were not sorted to the various marks by the Port of London Author-ity, as in former years, but were stacked in piles of white or colored cheese, treespective of shipper marks, and buyers were compelled to take delivery just as they came. In the main, the shipments of heated cheese were more frequent than in previous years, and some of those dur. ing August and September were in a was stowed under grain, and as there was delay in obtaining machines for discharging the grain, the result was many weeks in the ship's holds, it was in a deplorably heated condition

in a deplorably heated condition.

The extra exposure during summer of those shipments docking at the mouth of the Thames, which had to be discharged overside into barges, also had the effect of adding to the quantity of heated cheese; and the riving fitted with cold or cooled air chambers helped to lower the perentage of cheese arriving in cool con-

A new kind of fibre box was tried in one or two small trial consignments, the total probably being less than a hundred, but it was not very favorably commented upon, there being a want of stiffness in the materia which prevented the box carrying the total weight of four or five cheese when piled in stacks. Also, the boxes did not seem to me to be proof against moisture, and I saw some few in which the contents had been badly heated, with the result that the whole package lost shape.

Creamery Picnics This Year

THE time for creamery picies will soon be at hand and we know of no means whereby the cooperative spirit and good fellow cooperative spirit and good fellow-ship can be promoted to the same gree as by these pleasant neighbo-hood gatherings. Many cooperative creameries have made them annual affairs, and many more will do so nce they have tried it. A creamery picnic does not mean much expense and the more home talent employed on the program, the better in or opinion. In fact, we do not believe it is necessary to have much of a speaking program, as the lunch baket and a few games should be the main attraction. We would not care main attraction. We would not care for more than one speaker on some dairy subject, and he should be an entertaining one. The rest of the pro-gram should be made up of singing and other music, and a speech on a patriotic subject.

At first glance, this year would seem a poor picnic year on account of the seriousness of the times, but of the seriousness of the times, out if the creamery picule is not made at elaborate affair, but is kept within the bounds of home-like doings, and if it is made the occasion of expression of loyalty and patriotism, there is a place for the picnic even in these

Diversion is needed, and surely the Diversion is needed, and surely us creamery pients furnishes a health and harmless kind, but do not forget that if you fail to provide a speaker who can promote the loyalty of the people and help them always be beter Americans, you have failed to use to best advantage an opportunity which the creamery picnic presenta to -Dairy Record.

The Far

(Continu so muc capital—luxurie To be free farmer, me this to the ways of to produce and 10 amen door

now does. Fr

purchasing almo

the hoof, and n

the butcher;

and chickens

shoddy purchas and imitation when it is not why the farmer or rather exch cornate produ form. At the much food pro sugar, kerosene ingredients for plenty of milk, fresh butter in weet cream fo et least cottage milk for both things which the to the city he has the wh sheep he can its pristine free have it fresh (f what pork is be in the year?—J.

Notes, Quer

Skir

HAVE a calf s is affected w falls out and calf keeps lickir red. The mothe show the same Wentworth Co., t Wash thorough

cent, solution of antiseptics. Rej days if necessar and in a warm ; washing until th

Ri

HAVE 20 head lings, and 10 old. There is among them. It around their eye had it on their know a cure —H. The symptom

which is very co non-infected to and be very car virus (which is to healthy anima them, and then daily until cure iodine Then di by thoroughly su and thoroughly five per cent. solu hot lime wash

Paralysi

HAVE a cow since last August have been as fall to the been as sick, it should be should be something that had been to be could not seem to be could not seem to be se

This is due to

break maged. Derma ot tend testing

Would

1918.

antities rdinary oard of Authorcolored hippers' elled to

me. In than in ose dur. re in a is there ult was it was summer at the barges,

and the hips ar-oled air he peras tried consignot very naterial ring the e horas against few in e whole

Year nientes and we fellow eighbor-perative do so reamere expense in our believe be the on some the prosinging ch on a

would account nes, but made an thin the pression ere is a rely the healthy ot forget

speaker of the be bet d to use ortunity presents. The Farmer's Luxuries (Continued from page 13.)

(Continued from page 13.)
with so much non-profit-producing capital—iuxuries—about them?
To be effect supporting.
To be free and independent from the farmer, me thinks, must resort back to the ways of his fathers, and strive to produce and grow on the farms much more of his necessaries than he now does. Farmers are becoming now does. Farmers are becoming chasing almost everything they eat wear. Beef animals are sold on and wear. Beer animais are sold on the hoof, and meat is purchased from the butcher; ditto hogs and lambs, and chickens. The wool is sold and shoddy purchased. The hide is sold and imitation of leather purchased, when it is not rubber.

when it is not rubber.
Absolutely, there is little reason
why the farmer buys so many things,
or rather exchanges his product for
cognate products in manufactured
form. At the present time there is
little need for the farmer purchasing much food products, any more than sugar, kerosene oil and the necessary sugar, kerosene oil and the necessary ingredients for pastry—baking. With plenty of milk, the farmer may have fresh butter in plenty for his table, sweet cream for his tea, and cheese, at least cottage cheese, with plenty at least cottage cheese, with plenty of milk for both drinking and baking, things which are absolutely impossible to the city dwaller, even though he has the wherewith. If he keeps he has the wherewith. If he keeps sheep he can always have a small carcass of lamb or mutton to use in its pristine freshness. If he kills a beef animal first of winter he may have it fresh (frozen) all winter, and gave it fresh (frozen) all winter, and what pork is better than a young pig which may be butchered at any time in the year?—J. A. Macdonald, Prince Co., P.E.I.

Notes, Queries and Answers

Skin Trouble

HAYE a calf about six weeks old that is affected with a rash. The hair falls out and it seems itchy as the calf keeps licking it, thus keeping it fud. The mother is now beginning to show the same symptoms.—F. B. S., wentwerth Co., Ont.

Wash thoroughly with a hot four per cent. solution of one of the coal tar antiseptics. Repeat treatment in ten days if necessary. Keep well covered and in a warm place each time after washing until thoroughly dry.

Ringworm

HAYE 30 head of calves coming year-lings, and 10 head coming two years old. There is a sort of skin disease among them. It is a sort of a sour around their eyes and nose and some had it on their neck. Would like to have a cure—M. Protessac Co., Ont.

The symptom indicate ringworm. me symptom: indicate "rimpworm, which is very cratagious. Isolate the diseased, or better still, remove the non-infected to non-infected premises, and be very careful to not carry the virus (which is a vecetable parasite) to healthy animals. Moisten the scales with sweet oil, remove and destroy them, and then dress the parts twice daily until cured with tincture of iodine. Then disinfect the premises and thoroughly scrubbing with a hot five per cent. solution of crude carbolic acid, or by giving a thorough coat of hot lime wash with five per cent.

Paralysis of Cheeks

Paralysis of Checks

HAVE a cow that has been failing after let August. At first I thought has been fail, but later I noted that has been failed that the let be the

This is due to partial paralysis of

the muscles of the cheeks. As the condition has become chronic, the results of treatment are doubtful. Rub the external surface of the cheeks with the external surface of the cheeks with a liniment made of two surices oil of turpentine, half ounce incurse of turpentine, half ounce incurse of soldine, half ounce lique fortier and alcohol to make an official control of the cont butcher if you can.

Mortgage and the War

NOPICE in your issue of January 3rd a legal advice dealing with mort-gages and their foreclosure. Was not an amendment made to this Act a year or so ago which changed it?—H. G., Victoria Co., Ont.

An amendment was made in 1916 to the Mortgagors' and Purchasers' Re-lief Act, but it does not change the law as stated in our previous answer.

The amendment referred to permits a Mortgagee to foreclose without leave a Mortgagee to foreelose without leave of the Court any Mortgage made or entered into after the 4th day of August, 1914, or any extension or ro-newal made or entered into after the 4th day of August, 1914, or a Mortgage made or entered into prior to that date where such extension or renewal is where such extension or renewal is of interest, prior to the original of the contract of the contract of the contract of interest, prior to the original of Mortgage is not increased by such extension or renewal

In cooling the milk keep the covers off the cans until the animal heat is drawn off.

When the milk pails and milk cans have been washed and scalded, in-vert them in pure air and where the sun will strike them.

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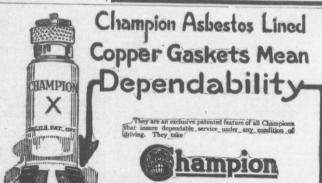
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out of the ordinary class and make them super-service plugs. They prevent any part of the porcelain from coming in contact with the hard steel shell.

in contact with the hard stees sheat.

The asbestos lining in the soft copper gasket rings form a cushion on each shoulder of the porcelain that absorbs the continuous, invisible blows of gas explosions in the motor cylinder and at the same time takes up the expansion caused by excessive heat.

There is a Champion or any and the of contract and

There is a Champion for every make of engine, and the name "Champion" on the porcelain guarantees "Absolute satisfaction to the user or free repairs or replacement will be made."

Ask any dealer for the Champion that will maintain maximum efficiency in your car.

Champion Spark Plug Co. of Canada, Limited Windsor, Ont.

Stop at the next Anto Supply Store and get a Champion "Minute" Spark Flag Cleans. Cleanse act of plays in a few minutes without even getting your hands dirty. Sell for \$1.00.

Farmer Fined \$500 for Criticizing Government

Widespread Interest in Cross Case-U.F.O. Will Appeal

HARGED with an infraction of order "D" of the order-be-council of April 17, Mr. J. F. Cross, a Jrantford farmer was on Tuesday, June 25, fined \$500 and costs by Magistrate Livingstone of Brantford. Order "D" states that "m one shall print, publish or publicly express any statement, report or opinion which may lead to weaken in any way, or people from the united effort of the people from the united effort of the war." And the process of the war of

The case has created widespread interest among the farmers of Ontaio. not only because the sentence is felt to be unjustly severe, but also on account of the remarks made by Magistrate Livingstone, one of his ulterances being, "I have already remarked that a lot of these farmers should have been put in fail."

At the trial evidence was given by the members of the Houlding family. John A., Mrs. George Houlding, Stewart Houlding and Reeve Rupert Greenwood. All told of conversation with the defendant in which he had criticized the Government for breaking the promise that farmers' sons would be exempt after they had received absolute exemption. It was the order-in-council affecting farmers' sons—the same which brought about the meeting of the farmers of this section here and the deputation to Ottawa—which brought out Cross' remarks.

Cross, when called upon to give evidence, stated that he referred to the Government pledge as a scrap of paper, and he did not think that in saying this he was going beyond the bounds of rightful criticism.

Cross told of having two farms, one ten miles from the other, with a total acreage of 159 acres. He had an adopted son yet at home, while his other son had recently been drafted. His parents, he said, were English and he had been born to Canada.

M. W. McEwen, for the defence, contended that Cross had merely exercised the rights of free speech, the same as other citizens all over the country.

The magistrate: "I have already remarked that a lot of those farmers should have been put in jail."

Mr. McEwen continued that the attitude of the farmers was generally known, and there was no reason why Mr. Cross should be singled out for treatment when no others were molested.

"All I have to say is that some peo ple have been lax in this connection," the magistrate replied.

Mr. McEwen contended that if any Government in this country was to pass a law prohibiting criticism of it as a Government, then it was Prussianism indeed. The defendant had merely exercised his right of common Canadian citizenship.

No Seditious Utterance. In conversation with officials of the

United Farmers of Ontario last week, Mr. Cross strenuously denied having used seditious language. "We were having an ordinary discussion about the Government's breach of faith with the farmers," he said, "and that's all there is to it." Mr. Cross." "The magistrate at Brantfod is blased against the farmers as a slass," declared Mr. Cross. "He re-

"The magistrate at instantord is blased against the farmers as a class," declared Mr. Cross. "He remarked that a lot of these farmers should be put in jail, and that, so far as he could, he was going to put this down, meaning the agitation of the farmers."

Mr. Cross declares that his only

thought in all his conversations was that the Government had been faulty in granting exemptions to farmers' sons and later taking them away.

sons and later taking them away.
Commenting editorially on the
case, and on the remark af the Magistrate to the effect that "I have already remarked that a lot of these
farmers should be put in jail," the
Toronto Globe says:

Toronto Globe says:
"It would appear that the penalty imposed upon Mr. Cross was unnecessarily sovere and calculated to do injury rather than benefit to the cause which patriotic Canadians are seeking to advance. The case should undoubtedly be reviewed and the sentence modified or succeeding to advance the case should undoubtedly be reviewed and the sentence modified or succeeding to the case should be supposed.

"The case of Mr. Cross is, unfortunately, not an isolated one. It is a mistake to fall or refuse to recognise that throughout many of the agricultural districts in Ontario there is much exasperation and bitterness over the recent strengthening amendments to the Military Service Act. Much of this feeling, it must regretily be stated, is inspired and encouraged by selfish outside influences not directly interested in the work of agricultural production. But it can be also be about the contract of the contra

U. F. O. Appeal Case.

Feeling that not only has a grave injustice been done to a loyal Canadian citizen, but a reflection has been cast on the patriotism of the farmers of the province, the United Farmers of Ontario have lined up behind Mr. Cross and have instructed Gordon Waldron, their lawyer, to enter an appeal at once.

Convention Echoes

Mr. J. N. Kernaghan, the chairman of the committee that was appointed at the last annual convention of the UEFO, to take steps to establish an official organ, salt that while the farmers' committee was in Ottawa, a man had offered to put up all the money the farmers might require to establish such a paper. He had refuse of the consider the offer because the man whe not a farmer.

The advantages of the system of "Referenlegislation known as the "Referen-dum" and the "Recall" were explained by H. B. Cowan, of Farm and Dairy, by H. B. Cowan, or Farm and Dairy, in reply to a request for information on this point. Mr. Cowan pointed out that if we had this legislation in Canada farmers instead of being at the morey of the Government would have the Government where it would have to pay heed to their wishes. The "Referendum," he said, is legislation which makes it possible for the people, if they are not satisfied with a meas ure passed by the Government, to circulate a petition. If this petition is signed by eight per cent. of the people the Government must submit the measure to a vote of the people before it could become a law. ent the Government is able to ignore the desire of the farmers because it has been elected for a period of four years, and cannot be touched in the meantime. The "Recall" is legislation which makes it possible for farmers, when their member in the House of Commons or in the Legislature, ceases to represent their views, to sign a peti-M 25% of the electors sign the petition the member must resign and submit himself for re-election. farmers' organizations in Canada, cluding the U.F.O., have had a plank years urging the Government to enact such legislation. So far the Govern-ment has refused to grant it. If we had such legislation on our statute books the probabilities are that the Government would never have passed the recent order-in-council, and

had it done so it would have been possible to make the Government submit it to a vote of the people before putting it into effect.

Quite a number of members of ne Women's Institute were presthe Women's Institute were pres-ent. One of the women dele-gates suggested that the men should go home and urge their wives to join the Women's Institute in that both organizations work together in the interests of the that something should be done to lead the women to take a greater interest in the work of the U.F.O. much interwas taken in an announcement by Mr J. J. Morrison that a meeting to be held in Toronto on June 17, which would be addressed by Mrs. McNaughton, a past President of the Saskatchewan Grain Growers' Asso ciation, for the purpose of organizing form women's association in connection with the U.F.O. similar to the Women's Section of the Saskatchewan Grain Growers' Association. port of this meeting appeared in the June 20th issue of Farm and Dairy.

Brant Farmers' Cooperative Society

VEAR or more ago there was quite a furry in UFO. circles over the action of certain Brant county members in promoting a cooperative trading society of their own with headquarters in Brantford. The movement was interpreted in some quarters as a substitution of county for provincial cooperation, and the new society was considered a competitor of the Central rather than as an associative control of the central rather than as an associative control of the central rather than as an associative control of the central rather than as an associative control of the central organization, and has justified the claim of its promoters that it was not intended to "buck the Central." When in Brantford a few days ago, in company with Mr. W. C. Good, an editor of Farm and Dairy paid a visit to the society's severooms and the control of t

The office and warerooms are conveniently situated in the business section of the city, and the warerooms behind have the additional advantage of abutting on a railway siding. Carleads of feed, fertilizer, fencing, etc., can be unloaded direct from the car to the warerooms; and the coal sheds adjoining, also under lease by the cooperative society, can also be filled direct from the car with a minimum of labor. For the character of the business done the plant is as convenient as it very well could be.

as it very west could be.

A few staple groceries are kept in stock, but the main lines are flour and feed, dairy meals, fencilies, fertilisers, roofing, oils and greases, lumber, apples and, as Mr. Ballachey end, "coal if we can get it." The society is also becoming as Northange entire in the society of the society of

short of that particular kind of seed.

The society is modelled after the plan of the British cooperative socie ties, Mr. Geo. Keen, of Brantford, assisting in the drafting of constitution and by-laws. All goods are sold at the regular retail price, and the the regular retail retail merchants of Brantford have, therefore, not been antagonized by the new venture. A fixed dividend is paid to the stockholders and the balance is then divided back among the share holders in proportion to the business that they have done through the se ciety. The directors may also pay one half of the members' rebate to nonmembers who have purchased from the At the time of our visit society. shareholders numbered 209 and \$11,000 worth of stock had been subscribed, of which \$5,500 was paid capital. The success of the Brantford venture, which seems to be modelled on correct lines, will be watched with interest by Ontario cooperators.

Need for Increased Capital
L. H. Blatchford, Mgr. U. F. Co.

BECAUSE we have so far sagceeded in doing a big business
on small capital, it does not
follow that we can continue to do so,
We are growing. Our business is
reaching out in various lines. We feel
the need for a better financial standing keenly. It is embarrassing, to say
the least, to have an opportunity to
save a good amount of money for our
save in the least year.

Will look up before entering into a
first thing that any business concern
will look up before entering into a
first thing that any business concern
will look up before entering into a
further of the save year.

If we are going to do business satisfactorily, we must have the standing factorily, we must have the standing that will speak for Itself. Where a because the capital to come from? Out of the profits? The margin has been to small. There is only one way the money can come. We will each have not do our bit. Do not reat on you cars, when your club has taken a twenty-five dollars share, and think that you have provided central with enough capital to finance your share of the business. Why it wouldn't buy a ton of feed, it int enough for each club to take a share, we want each club to take a share we want each club to the take a share we want each club to the take a share we want each club to the take a share we want each club to the take the take to take the tak

less they beave together. We are not telling you it is your duty to take stock, but your opportunity and privilege to become a shareholder in a great company that exists solely for your benefit. It has been, and still is, a benefit to the farmers. Its usefulness in the future depends largely on your support

beets, and farmers. Its usefulness in the tuture depends largely on your support. Did it ever strike you that, while farming is the basic industry, ret, the farming is the basic industry, ret, the farmers' organization is about the afarmers' organization in about the Asy you no doubt are aware, our capital as tock has been increased to \$250,000, our original capitalization was 1000, our original capitalization was 1000, our original capitalization was 1000, our original capitalization to have thing the same then as there years to have thing the same fort that what we must be supported to the same of the same there in 1918 we shall not only have \$250,000 fully subscribed, but that we will be applying for a further increase in capitalization increase in capitalization.

Let us work together in developing our future. We each have a work to do. The directorate, the central office, and the local club must each be aggressive and progressive.

Success is not reached at a single bound, But we build the ladder on which we

rise
From the lowly earth to the vaulted skies;

And we scale the summit round by round.

Silo Facts

VERY farmer who is a user of the silo is a booster for the silo. In the silo you can store cora in a form in which practically every particle can be eaten.

Silage gives the effect of pasturars

Silage gives the effect of pasturage in winter; it is both palatable and succulent.

succulent.

Silage aids digestion in the dryfeeding season.

Animals fed silage are not more

subject to tuberculosis, do not less their teeth more quickly, and are not shorter-lived than animals fed other common kinds of feed.

The use of the silo often makes it

The use of the silo often makes it possible to save corn that would otherwise be lost by frost.

A good sile should be round, airtight, water-proof, have walls that are smooth inside, and be strong and durable.

A sile should be placed where it will give the greatest convenience in feeding and where it will be least exposed to extremely cold winds. Field

Well-Gr

Well-Gr W HILE in t Grant, or two fine looked large end

looked large end lasked him their was four months six months old. esting, and I we secret of their His answer was "lalways plan s have all the months of their roung all but the raise only two or raise them well."

To you give to

"No," he repit about 25 lbs. a till about 25 lbs. a till about one me ally replace the separated milk: months old, at unly the skinn z till they are well of milk is weight he meal and cle est. In this wa back, but just a grow."

Mr. Grant sells ways separates e He admitted that money to raise a said he couldn't calf about the pla he additional or the advantage of D uring the age one cognious sehof time. One of o

genious sch et time. One ef c o genious sch et time. One ef c a small threshing ing it in place of purs the grain; in the fanners full it he engine, turns bid in the granas side the barn file bearier part of t ger. In this way to blow out as mu the oats, and say seed. What is his be put through a very light draft, a

Another farmer ham shortage, whis straw out of his machine to bi straw was of go wished to use it: off all the belts e connect with the speeded it up to a cording to his si blow the straw an at fast as two me the blower box. I his straw and also his straw and also

A PTER all the arding the rarding the rarding the farmer, it is most cases, a farmer spend in whatever cupation is best it ton. During a retard, just about grass was beginni interesting to not classes of live stoc seen, and the diffarming on different seen, and the diffarming on different when stong through the seen of stock. In dist the rallways, and not so good, the se the one carried a most common the seen of stock in dist the rallways, and the seen of stock in dist the rallways, and the seen of stock in dist the rallways, and stong seen of stock in distance of stock

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(91)

Field Notes

By "Mac."

Well-Grown Calves

Well-Grown Calves

William in the barn of Mr. D.
Grant, of Cornwall, I noticed
two fine helfer calves which
looked large enough to be yearlings.
Jasted him their age and he said one
was four meaths and the other was
sit months old. That sounded interesting, and I wished to know the
secret of their remarkable growth.
His answer was—"Milk." He said:
'Jaways Plan no that my calves will
have all the milk that is good for
their control of their control of their
large all the milk that is good for
their control of their control of their
me all but those I want to raise. I young all but those I want to raise. I raise only two or three, and I try to raise them well."

raise them well."

It is them well."

It is them well."

It is them well."

It is them whole milk right.

It is the regilied, "I start out with sheat 25 lbs. a day. They get this till about one mouth old, and I gradually replace the whole milk with separated milk till they are 2 or 3 months old, at which time they get ealy the skim milk. This they get till they are well grown. Every feed to the skim milk. This they get till they are well grown. Every feed to the skim milk. This they get till they are well grown. Every feed to the skim milk. This they get till they are well grown. Levery feed to the skim with the skim milk. This they want to still the skim was they have no set back, but just simply go ahead and back, but just simply go ahead and

grow."
Mr. Grant sells whole milk, but always separates enough for his calves. He admitted that it cost him a lot of money to raise a calf that way, but he aid he couldn't bear to see a runty calf about the place, and thought that he additional cost was returned in the advantage of early maturity.

During the present labor shortage one comes across many ingenious schemes for the saving of time. One of our readers who owns of time. One of our readers who owns a small threahing outfit has been using it in place of a fanning mill. He peurs the grain into the feeder, opens the fanners full blast, and speeds up the engine, turns the blower into a the engine, turns the blower into a bin in the gramary, which stands be-side the barn floor, and catches the bearier part of the grain at the bag-ge, in this way he claims to be able to blow out as much as 50 per cent, of the cats, and save a good quality of sed. What is blown into the bin can be put through a second time with very light draft, and used for feed.

Another farmer who, on account of barn shortage, was obliged to blow his straw out of doors, made use of as staw out of doors, made use of his machine to blow it in again. His straw was of good quality, and he wished to use it for feed, so he took of all the belts except those used to connect with the blower. Then he connect with the blower. Then he speeded it up to a good speed and, according to his statement, it would blow the straw anywhere in the barn as fast as two men could fork it into the blower bex. In this way he saved his straw and also saved his time.

A FTER all that may be said regarding the enlightening of the farmer, it is a question it, in most cases, a farmer is not found engaged in whatever wranch of his oc-cupation is best suited to his situation. During a recent jaunt over On-tario, just about the time that the grass was beginning to grow, it was interesting to notice the different classes of live stock which were to be seen, and the different methods of farming on different varieties of soil farming on different varieties of soil and general conditions. For instance, when going through a rocky district with hare, stony hills, the proportion of sheep is larger than other classes of stock. In districts remote from the rallways, and where markets are not so good, the soil supporting farm, the one carried along more general lines, is most common, while farmers located close to shipping points are nearly specializing on some particular interests.

doubt, many misfits, but as a rule the doubt, many misrits, but as a rule the average farmer unconsciously slips into the class of farming best suited to his conditions.

Duffer on a winter many farmers, on account of the difficulty of securifig grain for feeding purposes, have been buying unground oil cake. This is in the slab form, but as it comes from the press. The great difficulty in handling this class of feed is to get it broken up into shape for the animals to eat it. The most common plan seems to be to break it off with a hammer over the edge of a cement manger. This, however, is very slow, and various other plans have been tried, which are both interesting and amusing.

amusing.

During the early part of the winter
the Farmers' Club at Sincoe, Ontarlo,
beught a car load, and many were
the suggestions as to the best means
for breaking it up. Some recommended breaking it with a hammer
and then putting the places we'll
the grinder with the plates we'll
the grinder with the plates we'll
though the one suggested putting it
through the some one clees said that how the some
one clees said that how the some one clees said that how the said that he
plane to boring a couple of holds. the plan of boring a couple of holes in each slab and hanging one over

fied until it appeared that he was helping to solve the food problem by peddling fish. He said that with the six barrels full, he could spin along and cover a lot of ground in the course of a day. Truly the adapt-ability of the car is almost beyond

magination.

The Triangle of Journalism.

The Triangle of Journalism.

HE management of any publication for the departments, and Editorial. It is also a fact that just as in the case of a triangle, which to be a single to the property of the second of th

whole of Canada for 1918, is estimated at 16,088,880 acres, as compared with 16,186,880 acres, as compared with 16,186,880 acres, as compared with 16,186,880 acres, and the arra court to a recommendation of the series and the arra court to opening wheat court of the harvested of fall wheat is 335,000 acres, and the arra court to opening wheat of the latter as compared with 1317 is 1718,360 acres, or 13 per cent. The area as compared with 12,718,460 acres 1st 790 acres 1st 7

Condition of Crops on May 31.

Gondition of Crops on May 31.

Condition of Crops on May 31.

Throughout the west the month of Marting Control of Crops of Crops

ANOTHER VERSION OF THE SALE.

Another versions of the sales.

The field of the sales of



The Highest Priced Female Ever Sold at Public Auction. Korndyke Winona sold at the Pine Grove Sale of Oliver Cabana for \$15,000 to Paul T. Brody, Pawling, N.Y. This cow is eight years old, an almost faultless individual and has a record of 42.16 lbs. of butter in seven days.

the horns of each cow so that she could lick it ad libitum.

could lick it ad libitum.

The Maxville Farmers' Club also bought a car, and they also resorted to several unique expedients for preparing it for use. Possibly the most general plan ht/s is to put the cakes through the corn cutter. It is hard on the machine but, according to reports, it makes a fairly good job of hometics. It makes breaking the cakes.

breaking the cakes.

Another plan is to put them through the cylinder of a small thresher, and catch the places at the grain spout. Those who have tried this plan say it will loosen a few teeth of the cylinder and concare, but that it does very effective work.

Possibly the easiest method is that adopted by Nell MacLood, of Laggan, Ostario. He was unlay if for feeding pigs, and always kept a few cakes standing in the whey barrel. He said that the whey gradually soaked it away, and that the small quantity of the cake which soaked off, mixed with the why, made a splendid feed with the whey, made a splendid feed for the hogs.

W HILE calling at a farm not far from the St. Lawrence River, in one of the eastern counties In one of the eastern countles of Ondarlo, a lad drew into the yard with a Ford car. He had had it arranged with a long platform where the back seat formerly was. On this were six barrels, and I wondered if it were some new variety of junk wagon, and was considerably mysti-

of sal.5 Bb. of butter in seven days.

In motion, the advertiser, is the one who reasps the greatest benefit. He is like the energy that the present seven the sale of the sal

AREAS SOWN TO GRAIN AND HAY. AREAS SOWN TO GRAIN AND HAY.

TIESE Dominion Bureau of Statistics,
I simed on June 13, subject to revision, the first or preliminary estision, the first or preliminary estision, the first or preliminary setperson of the state of the state of the state
occupied from the relumn of crop correspondents. The
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LAKESIDE AYRSHIRES

D. McARTHUR, Philipsburg, Que

Herd Sire-Glenhurst Terrs Master, sired by Lessnessnock Comet. Young stock for sale, all ages, at reasonably prices. One exceptionally good yearling built. Write for

AYRSHIRES -

want Ay; shires of the right kind, write us. Possibly we have what you want. NORWICH, ONTARIO

Young calves, either sax; several from R. O. P. cows; also a few bulls fit for service lis year. It will pay to come and see or write for price if wanting anything in choice veralines.

THE EDGELEY CHAMPION HERD OF JERSEYS.

Write us shoul your next herd sire. We now have sons of our present herd sire, September 1, 1997 the street of the

-HIGH CLASS REGISTERED JERSEYS FOR SALE Some fine young bulls for sale—all from Island blood sires, and good, pro-dams. Priced to sell from \$50 to \$100 each. Also some fine cows at \$200 Write at once. Guaranteed as represented. T. J. HETHERINGTON, Peterbor.

Save All The Hay

you cut by using a PETER HAMILTON No. 4 RAKE. HAMILTON No. 4 RAKE. This machine has great capacity and will rake up all your hay, whether light or the control of the contr



The automatic dump is very efficient and the extra guard teeth are provided to keep the hay from rolling or winding into the wheels. No worry, no trouble, no loss of time when working with this efficient rake. Write us to-day.

The Peter Hamilton Company, Limited

Peterborough, Ontario



"A Lap Ahead"

Dunlop Tires-"Traction," "Special"-represent doing best what other tires may have been trying to do well.

"Masters of the Road"

DUNLOP TIRES

AYRSHIRE NEWS

AYRSHIRE COWS AND HEIFERS THAT HAVE QUALIFIED IN R. O. P. TEST FROM MAY 18 TO JUNE 14.

Mature Class.

Mature Class.

Liver Model of Bickory Hill, 3200;
Liver Model of Bickory Hill, 3200;
Liver Model of Bickory Hill, 3200;
Liver Model of Mod

Title.

Three-year-old Class: 10.888

Hossem of History Hill, 5553; 10.886

Bo. milk, 838 lbs. fat, 3.75 per cent fat, 565 dys. N. Dyment & Bons.
Paner, 5581; 3.886 lbs. milk, 391 lbs.
fat, 44 per cent fat, 535 dys. Director
Cedar Hodge Lacey, 4759; 3.606 lbs.
milk, 342 lbs. fat, 4.77 per cent fat, 365
dys. Samuel Killc.
forer Lacky, 475 lbs. fat, 4.7 per cent
fat, 366 dys. Wilton E. Dryden, Cowansville, que.

ville, Que.

Two-year-old Class.

Lassie of Hickory Hill, \$2520; 9,193 lbs.
milk, 378 &bs. fat, 4.1 per cent fat, 356
dys. N. Dyment & Sons.

Jame of Claresholm, 39777; 8,510 lbs.
milk, 318 lbs. fat, 3.75 per cent fat, 338
dys. Dept. of Asgriculture, Edmonton,
dys. Dept. of Asgriculture, Edmonton,

Gys. N. Leyment et bons.

Gys. N. Leyment et bons.

Hill, 318 bs. fat, 3.73 per cent fat, 338 dys.

Dept. of Agriculture, Edmonton, All State of Agriculture, Agriculture, Agriculture, Agriculture, Agriculture, Mandoc.

Terrace Bank, George of Carlot, 338 dys.

The Bank, Gorge of Carlot, 338 dys.

The Agriculture, Mandoc.

Terrace Bank, Gorge of Carlot, 348 dys.

The Agriculture, Agricultu W. F. STEPHEN, Secretary

NOTE again breeders of Holisteins Aware special reason to be proud of their breed. This time it is in connection with the big consignment sale held at Hamilton on June 3th. Both for the quality of stock offered and the prices resulted it raises among the best. An average of over 4440 per hand is something for the consignors to be proud

an secure.
This bull is Riverside Johanna Pontiac,
son of Mr. Richardson's Sr. Sire. King
obanna Pontiac Korndyke. His dan to
foffilia Dukoi Saroastic. a 28-b. daughter of Johanna Rue 4th Lad, and the
am of Jos. O'Reflij's R. of P. Charup,

Foitilia of Riverside. Mr. Richardson is seeping this bull's twin brother for his wan junior herd sire and another full orother is now in the herd of Walburn Rivers, of Ingersoli.

Rivere, of Ingereoil.

The next highest price was \$1.52, and \$2.52, and \$2.52

Cooper bought the \$2,500 cow at Dr. Parewerfs may be recovered to the provided female was Lakeview Canary Countees, also consigned to the control of the con

A few figures:

5 head brought over \$1,000 cach. 7
inhers brought over \$450 cach. 35 inabrought over \$450 cach. 35 inaseveraged \$546. 8 yearlings averaged
\$250. 7 bull calves \$299, and 3 bulls over
year veraged \$1.585. That is possibly
year veraged \$1.585. That is possibly
year verage was atruck by the bulls. The
following are inhe other alminal
to the property of the property of the other
A Schweger, Mervis, Ont. Lakevise.

July 4, 1918,

MAI

There has been contario points du ause of the over saimed, however, four for domestic rices are as follo Manitoba. When

lian, nominal (In Vortheren, \$2.35 and \$2.35 kg. No. 3 No. 5 No. 5

HAY AND

POTATOES A A very good demar oused an advance i farlos are now quote per bag, and Delawan Canadian, prime be HIDES AND

EGGS AND F

EGGS AND F.
Large consignments eming in from Wings and the control of the control

FOR SERVICE THE 40 LB. BULL

The only buil in the world with a BERTRANGE.

The only buil in the world with a beautiful to the R.O. M. holds nine Canadian and two world; records. His dam is Law-view Lestrange, whose record is 741.9 hs. milk. 28.0 hb. builter, with an average test of 4.1 per cent. We are accepting for service a limited number of approved cows. Write for particulars. Remember his service is limited as

918.

\$1,525, tahland, Dutch-sow. He of Wel-w Stock hat Mr. at Dr.

MARKET REVIEW AND FORECAST

T ORDNYDO, July 1.—The unesasonably of soil seed related the survey of the property of the pro

WHEAT.

WHEAT.
There has been no wheat moving to Oniario points during the past week best of the past week best of the past week best distinct of the past week best distinct of the past week past desired by the past of the past of

MILL FEEDS.

Quotations on this market are: Car-les, delivered, Montreal freight, bags included bran, \$85: shorts, \$40. On the Mentreal market this feature of the week declines 31 per tong in moulie, prices declines 31 per tong in moulie, prices 487. Bran is quoted 335 and chorte, \$40.

HAY AND STRAW.

The market for baled hay has been without any new feature of note, busi-sess being very quiet. Quantilens: No. 1 track, Toronto, \$13 to \$14; mixed, \$15 to \$13; straw, carlots, \$2 to \$15.60. At Mentreal, No. 2 hay, \$14.50 to \$15. POTATOES AND BEANS.

A very good demand for potatoes has eased an advance in quotations. On-thries are now quoted at \$1.55 to \$1.85 per bar, and Delawares, \$2.51.76 to \$1.85 bath; foreign, hand picked, \$6.76 to \$7.

HIDES AND WOOL.

HIDES AND WOOL.

Bet Mides, green, 13c; part cured, 4c; cured, 14c; deacons or bob calf, 18 to 12c), hencealtides, country take18 to 12c), hencealtides, country take18 to 12c), hencealtides, country take18 to 18c; part 1

EGGS AND POULTRY.

EGGS AND POULTRY.

Large consignments of eggs have been made to the consignment of eggs have been made to the consistency of th

mand is good and everything is ploked up promptly. Quotations:

Lave weight. Dressed.

Lave be 306 to 606 306 to 606

Roostaw.

306 to 606 306 to 606

Turkeys ... 256 to 606

Dalley PRODUCES.

Dacks white control of the control o

Campbellord, June 27 — 776 boxes of fored. All sold, Campbellord, June 27 — 776 boxes of fored. All sold at 22 1-4c. Kingston, June 27 — 115 white offered. Sitrings 1 -4c. Si

price.
Napanee, June 28.—1,896 boxes of white offered; 400 boxes sold on board at 22 1-4c, balance selling on curb at same

The (rade on the live stock market during the past week has suffered a heavy need to be a suffered as the suff

do good Butchers' steers and	15.00 12.76	to	\$ 16.28 14.50
do good	14.50		15.00 14.25
do common	12.50	to	13.50
Butchers' cows, choice. do good do medium	11.50		12.00 11.35
do canners	7.25 5.75	to	9.50 8.00 6.50
do gooddo medium	11.78	to	13.00 11.50
Feeders, best	8.00	to	9.00
Milkers and springers	9.50	to	13.25
Column ob to medium.	70.00	to	150.00

HOG FEED!

CALDWELL'S

DRY

LAKEVIEW HOLSTEINS

Every male or femnle offered by us are either some or daughters of these mandrail cows. No other hard in Canada has her of the second of the second of the control of the second of the control of the co

MAJOR E. F. OSLER, Prop. T. A. DAWSON, Manager LakeviewFarm, Bronte, Ont.

HOLSTEINS -

One 2-year-old bull; 1 bull 18 months, out of a 231/2-lb. 3-year-old dam; 1 bull 13 months; others younger.

R.M. Holtby R.R. No. 4

Port Perry, Oat.

HOLSTEIN BULLS FOR SALE

One born November 6th, 1917, three-quarters white, dam 20-lb., a three-year-old.

Sire's dam is 18 lbs. at \$\frac{2}{3}\$-years. Sire's \$\frac{2}{3}\$ sire a \$\frac{2}{3}\$(00 \$\frac{2}{3}\$-\frac{1}{3}\$b. buil. Write or phone

R. S. OLIVER R. N. No. 5, Phone 24-19 ST. MARVS, ONT.

-CLOVER BAR STOCK FARM OFFERS-

A few choice young buils for sale, from heavy producing dams, sired by a son of Prancy 3rd. Write new for description, photo and price.

P. SMITH

R. R. NO. 3. STRATFORD, ONT.

Herdsman Wanted

I am open to engage an experienced horderman to handle my well-known loaded herd. I want a man experienced in R.O.M. work to develop a most promising the most of the control of the contr

STOCK

POULTRY

SUNNYSIDE STOCK FARM HOLSTEINS

COUNTY OF THE PATHS OF THE PATH OF THE PATH OF THE PATHS OF THE PATHS

JOHN M. MONTLE, Prop. Sunnyside Stock Farm, STANSTEAD, QUE.

CHOICE YORKSHIRE HOGS AT RIGHT PRICES

Bears and sows, all ages, from beat prize-winning stains—a few good role stay prize-winning stains—a few good role size-ges stains—a few good role size-ges stains—a few good role size-ges stains—a few good for the size-ges stains—a few good role size-ges stains—a few good role size-ges stains—a few good for size-ges stains—a few good for size-ges stains—a few good for size-ges s MILTON, ONTARIO

CHESTER WHITES

FOR SALE—Choice young pigs, ready to ship. Write for prices.
F. W. Gullett & Sons R. R. No. 2, Welland, Ontario

A Bacon Producer Without an Equal

In this crisis of world food shortage with its meatless and baconless days-it is important that stock be fed products that will produce

most rapid gains at a reasonable cost. If you are fattening a batch of hogs, and want quick results, start feeding.

CALDWELL'S HOG FEED

Dry Hog Feed is made from shorts, corn chop, oil cake, pea chop and 10% tankage. It contains 18% Protein, 21/2% Fat and 10% Fibre. The question of feed for the winter months

is serious, and by ordering early, farmers are assured of obtaining a high grade feed at lowest Chillian Land prices

Order from your feedman. If he cannot supply you write us direct. Dept. 1.

The Caldwell Feed & Cereal Co., Ltd. DUNDAS, ONTARIO

Makers of all kinds of Stock and Poultry Feeds. (Canada Food Board License 9-7627.)

Fire Loss from Lightning - \$400,000 a year could be saved if Ontario's barns were all rodded

S a comprehensive conclusion from Ontario Department of Agriculture

Investigations we have found that, if all the buildings in rural Ontario were rodded more than 95% of the annual damage to buildings by light-ning would be prevented.

The method by which this conclusion was arrived at was as follows: In 1912, eighteen insurance companies in Ontario kept special records for us; from their reports we learned that out of every 7,000 unredded buildings insured by them, 37 were struck by lighting, while in every 7,000 or odded ones only two were struck by lighting. The rods prevented damage in 35 cases out of an aboving an officiency of 84.7%. Since that we have determined the officer or the years 1915, 1914 and 1915. The results for the four years are as follows:

Year.	12.			-	3 .													,														Efficiency	of	Roc
	,			4												٠,	 *												.,	,		94.7		
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1914	,							.,	. ,		×		, ,						. ,				Ġ					i,			,			
1915																			. ,				 ٠.,									99.9		
Avera	g	е		f	01	*	1	0	u	r		y	6	a	rs	,										. ,			į.			97.2		



1. Barn protected against lightning.



2. Rodding a silo. Note the cable hang-

To apply these figures: The report of

To apply these figures: The report of the Superintendent of Insurance shows that in 1912 the insurance paid on losses caused by lightning was \$269,282. No doubt the actual loss exceeded the insurance by perhaps one-third or one-shall. If so, the actual loss was \$350,000 or over. Ninety-four per cent. of this equals \$331,450, which represents the saving that would have been effected that year if all the buildings had been rodded.

\$400,000 Annual Fire Losses

In 1913 the insurance paid on lightning losses to buildings was \$305,104, which means a total of \$400,000 or more. Minety-two per cent. of this shows a saving of \$368,000 if the buildings had been rodded.

had been redded.

Simflar computations might be made for the other years, if the lightning losses were at hand.
Investigations along similar lines in lows have shown an efficiency of 98.7% for rods in that
State, based on the report of 55 mutual companies cach year for eight years.

In Michigan the efficiency of lightning rods has been shown to be from 88% to 99%. In this
State many companies keep: their rodded and unrodded risks in two separate classes, and assess
each for its own losses. The reports of eight of these companies for the years 1913, 1914 and

1915 show that In unrodded class the average assessment per \$1,000 risk

risk The only possible cause for the difference is the reds on the buildings.

Rods Even Better Than Insurance

These few facts, which are all matters of record in published reports, establish beyond question the conclusion first given, that if all buildings in rural Ontario were rodded, 55% of the annual lightning damage to buildings would be eliminated.

For the individual, lightning rods are a better investment than insurance. When they say a close the farmer's only loss is the interest on the price of his rods. Under insurance, case of fire, he loses at least one-third the value of his buildings, together with his premiums.

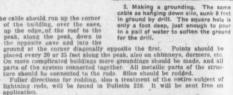
Kind of Rods

Copper rods are the most durable and, therefore, the best, although any metal will do the work, as long as in proper condition. But iron rusts off at the ground, and aluminum also corredes under certain conditions. A rod composed of two metals, one wrapped around the other, is especially objectionable

How to Rod

All rods should be grounded 8 ft. deep. From the ground the cable should run up the corner

of the building, over the eave, up the edge, of the roof to the



application. If there is any special information you would like to have on the sub-ject of lightning rods, or if you have any questions you would like an-swered, kindly send us full particulars and we will send you a prompt reply. Address the office of the Commissioner of Agriculture, Parliament



4. Hay fork track connected to main cable.

Ontario Department of Agriculture

Parliament Buildings, Toronto

HON. GEO. S. HENRY. Minister of Agriculture DR. G. C. CREELMAN. Commissioner of Agriculture

