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# 的跳 Each Week RUREAL NNOM 

## GRAIN SMUTS - THEIR IDENTIFICATION AND ${ }_{3}$ TREATMENT

## Protessor J. E. Howitt, O.A. C., Guelph

## The Annual Loss Due to Smuts Tous <br> The Different Varieties of Smar. Different S Smuts Require Different $^{\text {St }}$

 Treatment. How the Different Varieties of Smuls May be Recognized.EAOH year the grain smute levy a tax upon the farmers of Oanada amounting to many thousands of dollars. A large proportion of this annual loss can and should be prevented. A proper knowledge of the nature of the various smute and the best means of preventing them will enable any farmer, who will take the time and trouble and who is willing to spend a small amount in insurance, to secure a smut free crop and thus avoid a los, which in some seasons amounts to several dollars an aere. A proper inowledge of the nature of the various amuts is the first essential to success in preventing loss. Descriptions of the various smuts and the lifehistories of the easual organisms are, therefore, given before the methods of prevention are dealt with.

## BMUTS OP WHEAT

There are two common kinds of wheat amuts: Stinking Smut or Bunt and Loose Smut. the fungus that causes the Stinking Smut or Bunt vinters over as the spores upon the seed grain, while the fungus which causes the Loose Smut winters over as tiny fungus threads within the seeds. Formalin solution reaches and destroys the fangus spores on the seeds but cannot penctrate the seed and destroy the fungus threads within. This explains why it is that Stinking Smut or Bunt of Wheat can be suecossfully treated with the formalin solution while Loose Smut of Wheat can not. Many farmers do not recognize the difference between these two smuts and treat them both alike with the forma"in solution, and hence are often disnatisfied with the results. Since Stinking Smut, or Bunt, oan be prevented by treating the seed with formalin while such treatment is of no use whatever in preventing Loose Smut, it is very important that farmers should learn to distinguish between these two kinds of smuts. This is only a matter of a little careful observation.
Stinking Smut or Bunt attacks only the grains, causing them to become short and plump and filled with a black, somewhat oily powder whieh has an odor tike decaying fish. The ehaff is not destroyed, though it lecomes bleached and distended, due to the swollen disalleed grains within. Loose Bmut attacks both the grains and the chaff and reduces them
to a dark brown powder, which has no disagreeable odor. This disease shows just as soon as the ear comes through the leaf sheath. (See accompanying picture which shows (A) healthy head of wheat; (B) a head attacked by Stinking Smut or Bunt; and (C) a head destroyed by Loose Smut. Note that the chaff of the head affeeted by the Stinking Smut is not attacked while the whole head, chaff and all, has been destroyed by the Loose Smut.)
This smut attacks both the grain and the chaff and reduces them to a dark brown powder. Like the Stinking Smut or Bunt of Wheat, it can be prevented by the formalin treatment as the


Wheat Smuta


Sound Grains and Smut Balls


Loose Smut of Oats


Loose Smut of Barley
fungus that produces the disease lives over the winter as the spores upon the seed.

## This smut is virg ain or hazey

This smut is vary similar to the Loose Smut of Wheat. It attacks both the grain and the chaff but does not destroy the chaff so completely as does the Loose Smut of Wheat. The life-history of the fungus is similar to that causing the Loose Smut of Wheat, the organism wintering over as the fungus threads within the seeds. The formalin treatment is useless in preventing the Loose Smut of Barley

## Whkar and how to use formaling

Formalin provides the easiest, cheapest, safest and most effeetive means of preventing both the Stinking Smut of Wheat and the Loose Smut of Oats. Secure a one-pound bottle or formalin (one pound equals one pint) and mix with water in the proportion of one pound of formalin to 42 gallons of water; 30 gallons of water to 12 ounces of formalin makes a handy quantity to work with. Place the seed to le treated in a coarse sack a bran saek is excellent for this purpose. Fill the sack about three parts full and immerse in the formalin solution for about 20 min utes. Then spread the soed out on a clean floor to dry.
Sacks, implements, ste., used in handling smutted grain must also be disinfocted. The sacke may be boiled or dipped in the formalin solution, and a strong solution of formalin run through the seed drill. The floor on which the grain is spread out to dry should be serubbed with a solution of formalin. Sprinkling the seed with the formalin solution is also practised, but requires more eare in order to be effective. The best resulte were obtained at the Ontario Agricultural College from the immersion method here described.
If the seed wheat to be treated contains Lunted grains, "smut balls," they must be removed before treating the grain. This can be done by plecing the grain about a bushel at a time in a barrel of water. The smut balls being light, will rise to the surface and can be skimmed off.
These smuts cannot be prevented by treating the seed with formalin. $A$ modified hot water treatment gives good results, but requires too much time and labor to be practical under ordinary farm conditions. Clean seed is the best means of preventing these two smuts. Secure seed wheat and barley from districts where the Loose Smuts are not present. Such seed will produce crops free from Loose Smut.

## great fortunes - how most of themehave been made

 ARTIGLE No. 18.Most of the great fortunes of to-day have been made in some one of five different ways. These in the order of their importance are as follows :

## THE LAND MONGPOLY

FIRST-By gaining control of land so looated that the public must use it for trading and distributing centers. This is the land in our towns and oities. Land in New York City, for Instanee, is worth $\$ 15,000,000$ to $\$ 20,000,000$ an acre simply because the people who own it are able by means of the enormous rentals they charge, to squeeze that anmount of money out of that portion of the public who use it. Among the great fortunes that bave been made, to a great extent, in this way are those of the Duke of Westminster, the wealthiest landlord in Great Britain, and the Astors of the
United States. Because their ancestors gained control United States. Because their ancestors gained conirol of land in the cities of London and New York, when it was worth but little, thousands upon thousands of people to-day are forced through the rentals they pay, both directly and indirectly (see article 11) to contribute to the millions and millions of in these cities the power of these men and of thousands of this tand. And as population increases in these citics the power of these men and of thousands of others like them who own their pieces of
land, to exact still greater sums from the public will increase in proportion

THE MONOPOLY IN NATURAL RESOUREES
SECOND-By gaining control of the great natural resourees of the country, suoh as its coal and iron mines, its oll wells, its water powers, and its timber limits. Once a man or a group of men have acquired the control of any natural resource of this character, their power to squeeze the public is limited only by the demand of the public for the products which they control. The more population inoreases and the need of the public for these commodities grows, the more does the power of the people oontrolling these commodities to exact tribute from the pubito inerease, and the greater do their enormous fortunes beoome. Some of the greatest fortunes in the world have been made, for the most part, in this way, notably those of John D. Rockefeller, who obtained his great stari by his
monopoly of the oil fields, and Andrew Carnegie who obtained already has given away over $\$ 200,000,000$, or mos bat obtained his wealth out of iron mines. Carnegie year.

## THE MONOPOLY IM TRANSPORTATION FAGILITIES

THIRD-By gaining control of our great public utility companies, such as our transoontinental rallway systems and express companies. The public must use these servioes, not only for traveliling, but for the shiping of the products whose use it requires. The men who eontrol these serviees, by maintaining high rates, are enabled to bleed the public in a hundred different ways through ingreasIng the cost to us of almost every article we buy. Among the great fortunes that have been made largely in this way, were those of the late Jay Gould and of E. H. Harriman, the latter of whom was estimated to have made over $\$ 150,000,000$ in about fifteen years.

## THE EXTORTION OF COMBINES AND MERCERS

FOURTH-By means of combines and mergers, that form behind our protective(?) tariffs, and by gaining control of manufactured artieles, such as clothes, boots, household furniture, farm implements, cement and soores of other artieles, advanee the cost of these articles to the public, and thus grow fat and prosperous at the publio expense. Scores of great manufacturers in the United States and Canada have made their fortunes in this way.

## THE MODERN METHOD OF WATERED STOCK

FIFTH-By the promotion of combines and mergers, and the sale of small pleces of paper, oalied stocks and bonds, for millions of doltars to a confiding and investing pubilo, who do not realize that they have been buying what is known as "watered stock." This is a comparatively new method of getting rich quick, but it is now being used on a seais that is ineressing rapidly. Among the recent fortunes that have been made in this way is that of Sir Max Aitken, who has only recently been given the title of "Sir," presumably because of his success in plundering the public and thereby gaining a fortune, rated at several millions of dollars, in the course of some five or six years.

## THE GREAT UNDERLYINC: PRINCIPLE.

Some fortunes have been made by other means than those mentioned, but the great majority of the enormously wealthy peonle of the world to-day have aequired their wealth by some one or more of the foregoing methods, especially the first three. They have seized or gained control of those thing which the public must use, and by means of this control they have taxed and plundered the public in all directions until at last we are beginning to awake to the true condition of affairs. As yot, however, most of us have only started to awake. We are still wondering what causes rural depopulation, and suggesting such paltry remedies as the bultaing of country roads and tenant houses for farm laborers. We are stili conjecturing over the influsnces that oreate eity slums and suggesting as remedies the building of model suburbs. We are still asking for an explantion of the "high oost of living," and blaming the poor middiemen, whe are themselves squeezed by the same influenees that are squeezing us.

## THE FICHT IS NOW ON

The movement towards the righting of these conditions, and towards these influences that are operating a way in the background, but which are responsible for the increased cost of living and for enormous wealth on one hand and for poverty on the other, is now, however, well launched. We are "of government the true were the words of the great Henry Ceorge when he sald: "Under all forms "of government the ultimate power lies with the masses. It is not kings nor artistoaracies, nor "Iandlords nor oapitalists, that really enslave the people. It is their own Ignoranoe." The scales are dropping from our eyes, and as they do we are being led to realize that we have the power to right these conditions because they have been brought about, and are being continued, by a very small minority of the people. That the day of better things is olose at hand Is Indicated by the fearless and out spoken stand that has been taken by sueh pubile men as Ex-President Roesevelt, whe recenty in his first publice speeeh in his campaign for re-aleotion as president, said; "I have soant patience with this 'talk of the tyranny of the majority. Whenever there is a tyranny of the majority I shall protest 'against it with all my heart and soul. We are to-day suffering from a tyranny of minorities. It is 'a sma't minority that is grabbing our coal deposits, our water powers and our harbor fronts. A small
'minority is battening on the sale of adulterated foods and drugs. It is a small minority that lles
"behind monopolies and trusts. it is a small 'minority that stands behind the present law of "kisater and servant, the sweat-shops, and ths 'whole ealendar of social and industrial injust!co. 'It is a small minority that is to-day using our 'onnvention (politioal) systom to defeat the will "of a majority of the people. - . . . The only "tyrann s from whieh men, women and ohildren 'are suffering are the tyrannies of minorities. Lack of space has prevented simple removies for these conditions that are within the power of the people, being outlined in this articie. They are well undersood and have been endorsed by
all the independent farmers' erganizations all the independent farmers' erganizations i
Canada. We hope to outline them briefly next article.

## How We Lay Tile Drains

Jas, Marshall, Wentivorth Co., Ont. We take the easiest way. Some dig the ditclee by hand. We find it a good way to plóv the top with an orclinary plow as deep as possible, then use a subsoil plow with the handles narrowed in When the ditch gets deep we use two horses, on un each side of the drain, hitehed to a long double tree with a long heavy ehain connecting the double-tree with the plow in the drain. The chain will hold the plow down to its place rounds with the subsoil plow used in this manaer
will plow down about six feet in ordinary elay will plow down about six feet in ordinary elay
bottom. Then we shovel out the loose earth. We bottom. Then we shovel out the loose earth. We
had a regular ditching machine onee, but it did not work as well as our subsoil plow. It would dig to a depth of only two and a half feet. This we did not think was deop onough.
Drains should be down much below the frost limit. The little water veins that form to convey the water to drains are destroyed by frost if tile is too close to the surface. Also the water in the tile may le frozen at a partienlar time of year,
when the land nuwl draining thus losing the when the land needs draining, thus losing the benefit of drains altogether.

## Fall and outikts

Three inches fall for each 100 feet is sufficient Some farmers have drains with leas fall than that. Where it can be done it is better to have the hoad of mains or branches at a higher leae than the surface at the outlet, even if the person draining had to run a line at his own expense on a neighbor's farm above. We had a six-inch out let for years which was three foet belou the
level of the grounl, but on accoment of the hichur level of the groun I, but on account of the higher head, about ha'f a mile back on farm, the outlet kept clear and boiled up like a clear spring. I have one now about two feet below level, and the water is coming up fine.

From April to June is probably the best time to underdrain, as the ground is softer, the days longer and Lrighter, and the water in the drains can show the fall better than in the fall.

Where the higher land is of as wet a nature as the lower land, as we have it on our farm, the most thorough way of draining is to run the branch drains in paraliel lines, joining with the main drains in the bollows.

There is a very nice little income to everyone who will keep a pure bred Clydesdale brood mare on the farm.-Walter Elliott, Hatton Co., Ont.

Where the rations for milch cows lack succulence ${ }^{4}$ and palatibility we find that molasses can be used
to good advantage. For instance, a little along to good advantage. For instance, a little along with a grain will be relished. A mixtur of one
quart of molasses in a gallon of water sprinkled quart of molasses in a gallon of water sprikted
over dry hay will make it much more acoeptable to the cows. The cheapest kind of molasses costing 15 to 20 cents a gallon is as good as the best for this purpose.-A. P. MoKenzie, Peterboro Co., Ont.

## Pointers on Spring Lambs

C. A. D., Norfolk Co., Ont.

Tis shepherd should be sure that the lambs are geting milk. Although they seem to suck all right, they may not be getting any milk. We have lost lambs in this way. We will often find if we strip the teat, a core or hard substance in it that is difficult to get out. We strip until we see milk coming, and then are sure that the lamb is getting milk.
As soon as our lambs arrive we separate the exes from the flock and feed them bran and oats and a few roots. We feed roots all winter, but do not give suuch grain until the ewes come in. We never allow them to have any frozen roots In a very few days we will see the lambs eating the bran with their mothers. After they get to eatigg well, we fix a small trough for the lambs. separated so that the ewes cannot get to it. We alSays keep some bran and chopped oats in this trough. The lambs wil' not eat too much grain. and in a few days, or at icast a wcek, one will soon see a difference in the bimbs.
After we turn out to pasture we still feed the lambs for some time. In tact, it will pay to feed them all summer, but we don't do it after June 1st. Dif the lamas
We dip our lambs at shearing time and again in about three weeks. That pays, as ticks are an asful pest to lambs.


The barn and silo of 'Mr. Richardson, Halton Co., Ont, are here fllustrated The We always cut the tails stable are well finishod. The segarator room in the basement and adjoining the off as soon as we s"e the lambs skipping and playing. We never allow a lamb to run with a long tail, even if we intend to sell him the next day, as we don't know what might happen within a day or two. This lamb might get dirty and the flies blow it and mag. gots get in and kill the lamb. And when we find it a couple of days later we will wonder, and perhaps never know, what killed that nice big lamb.
This is the system that we follow in raising lambs, and we have had good success. We had a lamb that weighed 13 pounds when it was born. We weighed him every week, and he gained one pound a day until he weighed 115 pounds, and we got $\$ 15$ for him for breeding purposes. The average weight of a bunch of young lambs would be from five to seven pounds, but last year we had one that weighed 19 pounds at birth, and stood 20 inches high.

## Don't Pasture Too Early <br> Turner Glydon, Prince Co., P. E. 1 .

I would urge upon our farmers not to turn their stock on the grass until there is an extra good growth. We will have almost double the krass from the same field if we hoid the stock off than by pasturing too early. If the grass in a clover pasture is allowed to grow to a good height before stocking we have a double advantage. It draws a much larger amount of nitrogen from the air and the cattle do not have to travel so much over the tender grass, which keeps down the growth for the greater part of the summer.
Do I hear some farmer say, "How can you manage when feed is scarce?"' I would raiher pasture my hayfields for a week or two than turn my stock upon the pastures too early. I have found it a good plan to let the stock on a few
acres of the pasture only until the rest gets a good start supplementing the pasture with as much concentrated feeds as is required to keep the cows in good condition. Then I plow that part up and sow to a mixture of oats, peas and vetches that will make green feed later in the season if required. If not needed for supplementary feeding it makes excellent hay for the coming winter. Or it may be saved for feeding next spring while we are waiting for a good coat of grass to cover the pastures.

## Practical Methods With Brood Mares <br> I. B. Calder, Wentworth Co., Ont.

We try to keep our brood mares in a natural, healthy condition. We give them good food, but not too rich. We do not advise having them very fleshy. This winter our mares are getting oat

## Value of Alfalfa for Milch Cows

In experiments that have been conducted by Professor Geo. E. Day at the Ontario Agrieultural College, as to the value of alfalfa hay for dairy cows, the following results were obtained from a group containing four Ayrshire cows, two of which had been milking for a long period. It will be noted that during the second period these two cows, namely, 156 and 136 , received no meal, yet one of them gave a slightly higher average during the second period and the other held her own. In the case of the other two cows, both have held thier own in milk production under the reduced meal ration. The following table shows details:


## Methods That Have Brought Success H. C. Hammill, York Co., Ont.

Four years ago we purchased our present farm without any great amount of capital. When we state that it required $\$ 1,500$ annually to pay interest and principal charges and hired help, it will be understood that it was necessary to follow a better system of farming than that practiced by the majority of our dairy farmers. We have not yet reached our ideal, but better methods will be adopted as convenient. Labor-saving devices will le installed as we can afford them.
The system of feeding that we follow we believe has much to commend it. We utilize the products we produce on the farm, place them before the cows with the least possible labor, and
thus produce milk cheanly. We are siming to thus produce milk cheaply. We are siming to build up a dairy herd worth while and to so regulate our farming so as to always have an abundance of elover, corn and roots, even in an off year.

> MUST MRASURE UP TO STANDARD

The standard set by the Record of Performance is the standard that we have set for our dairy is unable to qualify, she is not fair trials, a cow is unable to qualify, she is not good enough for
Craiglea Dairy. Craiglea Dairy.
If the greatest possible production of our cows was our object, regardless of the cost of feed and labor, we would feed all clover cut, roots pulped, and then mix clover, roots and ensilage together with chop at least 12 hours beforo feeding. We would have a separate mixture for each cow, regulating the ingredients according to her capacity and likes. We would add salt just before feeding. Such a system would involve a great deal of labor. The mangers would require to be cleaned thoroughly every day to prevent sourness. This system would also require great skill on the part of the feeder to feed a cow to her fullest capacity without overdoing it.

A short time ago i had a letter from a farmer who had talked over the matter of windows with mo before he built his stable. In the letter he stated that his stable was now completed, and that when he took the window frames home his neighbors laughed at him for using such large windows, but now that the stable is completed they all agree that his ides is correct. The sooner we get away from the notion that large windows are a detriment to stables, the better it will Le for all conoerned.-Prof. Geo. E. Day, O.A.C., Guelph.

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## FARM MANGEMENT <br> -4*******

To Secure Plump, Heavy Seed
Only the best kernels of any kind of grain should be used for seed. The
principle of selection should be that of size and weight.
selection which pro selection which pro-
vides only for the weight of grain as
basis is insufficient While one that select
only for size is also in sufficient. The two
principles should be combined. Many of cur
ordinary fanning mils ordinary fanning mills by proper arrangemen
of seives and the blasi will separate grain on the above
principles.
The fanning mill is the simplest and mos
practical means of grading seed on the farm. The seed crop should be secured by runce proportion of the grain obtained any ,ne crop should be select crop should be selec:e: the best the of 25 prain tha: has been produced, this
separation can be
made without material
ly affecting the selliag price of thy
grain which remains. An ordinary fanning mill. such as is used on the
farm, will handle about 40 bushels an hour, or 330 bushels in eight hours, a

## hushe

The best 10 per cent, could be se lected
seed ced at a cost of approximately 10
cents a bushel. This 10 per cent. will
coll contain the grain from the most produetive and vigorous plants, the type of plant which we wish to propagate
in our fields. The cost of making in our fields. The cost of making such a selection may appear high to
some, but when it is considered that n increase of one bushel to the that would pay for the selection of suffic it becomes apparent that eight acres spent in selection is well

## Preparing for Alfalfa

 We are going to seed altaita thie apring What is the best bethod of preparing the silt-W. E., Yurk Co., OatAlfalfa will usually make its best stand the year following some hoed crop such as corn or roote. Fall plowed land also is to be preferred to that plowed in the spring. The system now generally advocated by our most successful alfalfa growers is to work the land thornughly and at frequent intervals us oo the middle of June or the first of July and then seed with-
out a nurse erop at the rate of 20 lbs. of good seed to the acre. A good stand of alfalfa is practically assured when this method is followed and the future increased yields will more
than compensate for the lack of the than compensate for the lack of the
grain crop that might be grown as a grain crop that might be grown as a
nurse to the young plants. Sead nurse to the young plants. Seor
should be inoculated with culture ol tained from the Ontario Agricultural College, Guelph, Ont.

## How to Use Manure

It should not be understood that the coarse, fresh barnyard manure is adapted to all crops. It would not be suitable for certain forms of garden
and vegetable crops; and even for the


Be Sure You Sow Only Good Seed Corn
 being used for seed the card all ears the seeds from which don't serminate. The
succeeding year. Sucn ien't it? The cheapest kind of crop insurance.
small grains, on light ably would not give as
the rotted manure. Wh applied as it should be the grass land, or just corn crop in rotation
fresh manure is better a succeedint, crop than th hure. The heat, and the acids developed in the composition, aid greatly -
 cuse for planting poor meed. Rule off a the then paper as inawn in the lliustration. Take pula
plant-food and result in greater en yields.
Some objections may be made the score that weed-seesds or phel plant diseases are aprea with to
unrotted manure. Where applied suggested above, however, at proper place in rotation, neither weeds nor the plant diseasee resultia tion.
It is often difficult
pace between the doon in make the air-tight. When I was building new barn I sunk a clevis with a thre on the end into the cement, put the jam, and tightened the nut the clevis when the cement was qui soft. This gave a perfectly tight ect E. Terrill. Northumberland Co, Ont

Read

## Tbe $\mathbb{P}$ ublic

The Publie is an indopendent democratic weekly. Each isme will give you brilliant editorisl comment - moderate, accurate and fair-and all the important news of the week, in condensed
W. M. and H. S. Southam,

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$\$ 1$. 50 will pay for The Pablic for one year, and give you a free copy of Henry, The Land Question. Send for

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The Feeders'
The Feeders Coraer
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## Feed of the New

 Prof. Erf, Universi During the time thhelle DeKol, the new non mils and butter so the reoeived nearly, time, more or less ensilap When available she rece mixed stain ration, leavier feeds were vari seording to the conditif nd that which seemed


This is th
Banoutine Belle DeKol,
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cattle by breeding and fee nathe by breeding and fee
tion appeared in Farm ane sow. Sbm is the type to
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Her grain ration from t Her grain ration from
gradually increased to 25 gradualy increased $\mathbf{i}$ little more, but Later rec
low as nine pounds a da low as sine pounds a day us can be estimated th
mount of grain fed was mount of grain fed was
pounds daily. She also ree

'Fruit Growers Out My W
"VANC
//ipray Chemieals and Fe We have found "Vanco" I,
solution and "Vanco" Arsenate of natisfactory in keeping fruit tre nuting Insects. Why don't you use wyaw SAVE FREIGRT hy boying Sprays and Pertilizere t haring silt come tm one shtpment.
Write for the "V Write for the "Vanco" Book. CREMICAL LABORATORIES 165-158 Van Horne Si, To

Feed of the New Champion Prof. Erf, University of Ohio Buring the time that Banostine rion milk and butter cow, was inamshe received nearly, if not all the time, more or less ensilage and alfalfa. When available she received roots and a mixed srain ration, the foundation $d$ which was bran and oats. The
beavier feeds were varied frequently seoording to the condition of the cow (nd that which seemed best at one
it was available, green oorn with the stalks and also green clover and any
other green feed that might be avail other green feed that might be avail-
able, including feed from the pasture able, including feed from the pasture.
Banostine Belle DeKol
Banostine Belle DeKol has given Lirth to three calves, this record having been made after the birth of the third calf. All of her calves to date have been heifer calves.
Success with Pure Bred Ayrshires Editor, Farm and Dairy,-In the Dairy Annual of Farm and Dairy, notice that Mr. Walter Payne, Vic toria Co., N.B., would like the advice
of breeders as to the last of breeders as to the lest methods of getting better stock. The experience of one who started in somewhat the same way may be of benefit to him. Seventeen years ago 1 bought a pure-bred Ayrshire heifer onlf. was fortunate in securing a first-elass
one. I had a pure-bred bul! at the


This is the New Queen of the Dairy World
Banostine Belle DeKol, the new world's champion milk and butter cow, bere aute by breeding and feediug full tion appeared in Farm and Dairy last week. Study the conformation of this
cow. 8 bbr is the type to breed for time did not seem best at other times She was also fed some dried beet pulp, specially when fresh roots were not wailable.
Her grain ration from the first was gradually increased to 25 pounds, or a ittie more, but later reduced to as
lor as nine pounds a day. As near low as nine pounds a day. As near is can be eetimated the average mount of grain fed was 12 or 14
pounds daily. She also received, when

"Fruit Growers Out My Way All Use

## "VANC0"

spray Chemicals and Fertilizers Solution have found "Vanco" Lime sulphur atiafactory in keeping fruit trees and ansya ublesfrey of Scate, Funguait $G$ rowtha and vegeating Insects.
 SAVE FREIGRT
by buying Sprays and Pertilizers together and Wing sill come in one shipment.
Write for the "Fanco" Book.
CRBMCAL LABORATORIES LMMTED
145-158 Van Horne St, Toronto. 40
time. I have aince sold about $\$ 2,000$ worth of bulls and about the same of
heifer calves. Two years ago I sold heifer calves. Two years ago I sold
81,000 worth of cows. I still have on hand four bulls for sale, and have about 25 head of females left.-P Peter MeIntosh, Dundas Co., Ont.

## A New Book on Horses

The effectiveness of the horse and the safety of the master and his family depend largely upon the understanding between man and horse. "The Training and Breaking Horses," a new book of which M. W. Harper is the auther, gives the most full and concise information on the subject of training horses and under-
standing them of any book that we standing them of any book that we
have seen in recent years. have seen in recent years,
In this volume
foal, each rotume, beginning with the and a special or horse is considered the education of the more common ctasses. Special attention is given to the training and subduing of wild horses as well as to overcoming all
vices that render a vices that render a horse useless and sometimes dangerous. Many applications for overcoming a vieious horse and making him subservient to his master's will are described, and illustrations make very plain the methods followed.
The book is nicely gotten out in a tractive cloth covers, good paper and large readable type. It contains almost 400 pages of just the kind of information that all who are interested in horses would like to have. This look is published by the MacMillans, of Canada, and oan be secured through Farm and Dairy for $\$ 1.75$,
post paid.

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losing in crops through not clearing
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WORK in field competition against all competitors, under the same con
the "Biaspecial shape of
the "Bissell" plates cause them to enter the ground naturally and TURN THE
SOIL EASILY, Steel SOIL EASILY, Steel
scraper blades meet the Disk Plates chisel fashlon and keep the plates ctean of trash by Anti-friction balls (40) are used in the bearinge,
ssell" Disk.
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ch cutting capacity, easy draught and correct proportlons as the "Bissell." A postcard to Dept. R will bring you a free catalogue.
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genmie's seens have got to grow - If you give them but a show THE FINEST IN THE LAND
WM. Remuie co. LuMite, Toromit, Moutreal, WMMipeg, Yamcouver
to causing the blackening of the hark,
is usually accompanied by roughening of bark and also by slipht swelling Fire blight injury is usually characterized by the sinking of the blackened area, and around the edges of the same will be found decided eracks
 Winter Injury to Trees
Why does the bark on some apple treen curn black and dead and peet off? The trouble usually starts on the trunk and
is sometimes coverned with holes made by woodpeckers; also it usually runs in stripe up the tree trunk.-David Woods, North If the black trunks of trees are at the south or south-west side the trouble is what is known as "sun-scald." This is a form of winter injury caused by alternate freezing and thawing of the Lark. If the trouble is not confined to this part of the tree, it is probable that black rot canker or fire blight may be the cause. Black rot canker, in addition of bark and also by a slight swelling.

## $$
\left|\begin{array}{c} a \\ a \\ I \end{array}\right|
$$ <br> <br> al

 <br> <br> al} have seen were in Dufferin count grown in Eastern Outarinter app bee known as "Bethel." 1 t mightLay aside and plow
strip of land, near the ho gay.

Queries About Grafts What is the beat kind of graft for ter fruits ta there any differeng grafte in quickne
Dufferin Co, Ont Dufferin Co., Ont.
1 am not
I am not clear as to what is mean by the question. "What is the bur sind of a graft for winter fruits: If the question refers to may say that in the oolder Dufferin county there ar winter sorts that can be gromy mat aatisfaction. Northern 8 py is suff ciently hardy, I think, but the variel requires so long a season that it dien not properly mature. In the waraes parts of Dufferin county, Nurthen Spy would be a satisfactory winf py would be a satisfactory winter most anywhere in Dufferin count

Orchard Spray Calendar for 1912

## FIRST APPLICATION

 Use 1 (a) or 2 (a) justbefore the leaf buds open,
for hibernating insects
suoh as acales, bud moth,
cues-bearera, seab, eanker cane-bearers, seab, canker
and lenf spot. PEAR
Aa for apple to oontro
seale, noab, blinter-mite.
Pse PEACB
fore buda berin ${ }^{2}$ (b) beto control begin to teawell. and brown rot oHERRY
PLUM AND OHER Use 1 (a), or 2 (a) just
before the buds burst for scales, brown rot and

ORAPE
Vee 4 or 5 or 3 (b) as
bnds begin to swell, or
when third leaf makes
ita appearance to oontrol
blaek rot, mildewe and
flea-bectle.
QRAPE
Vee 4 or 5 or 3 (b) as
bnds begin to swell, or
when third leaf makes
ita appearance to oontrol
black rot, mildewe and
flea-bectle. flea-beetle.

CURRANT AND
QOOBEBEAKY
Use 1 (o), or 2 (b) be-
re buds open, to con-
SECOND APPLICATION
$\begin{aligned} & \text { Use } 1 \text { (b), or } 2 \text { (b) just } \\ & \text { before the blossom buda }\end{aligned}$
$\begin{aligned} & \text { before the blossom buds } \\ & \text { open for eureulio, canker } \\ & \text { Worm, tent-eaterpillar }\end{aligned}$
$\begin{aligned} & \text { worm, tent-aterpillar } \\ & \text { Eobb, canlier and leaf } \\ & \text { epot. }\end{aligned}$
$\begin{gathered}\text { As for apple, to control } \\ \text { our culio, }\end{gathered}$
$\begin{aligned} & \text { oureulio, } \\ & \text { pillara, noab. }\end{aligned}$
tent-aater-
Use 3 (b) after the fruit
is set to control curculio
$\begin{aligned} & \text { Use } \frac{2}{} \text { (c), or } 2 \text { (b), or } 5 \\ & \text { when fruit is fairly set, } \\ & \text { fo curculio, green fruit }\end{aligned}$
$\begin{aligned} & \text { fo curculio, green fruit } \\ & \text { wurmes brown rot and } \\ & \text { blaok-knot. }\end{aligned}$
$\begin{aligned} & \text { Use } 4 \text { or } 5 \text {, or } 3 \text { (b) be- } \\ & \text { fore the bloseome open, } \\ & \text { to control black rot, mil. }\end{aligned}$
$\begin{aligned} & \text { to control black rot, mil- } \\ & \text { dews and flea-boetles. }\end{aligned}$
dews and flea-beetles. Uee 1 (o), or 2 (b), whay
(b) or 5 immediater ter bloseom petais hat allen, and belore the closing of the calyseat
for coding worm. Tor codling worm, canke
vorm, eurculio and mat As for apple to conita As for apple, to contro
noub, curcullo and othes

Use 3 (a) a month late
or brown rot and real
Use 1 (e), or 2 (b), wia
woeks or ${ }^{5}$ about tot
litepeat
brown rot threatelilt
 surf appears use
dust with dry, nirstian
lime.
Use 4 when the fruit , set, about two vere
later. for black rol wid later. for
mildews.


## Spraying Mixtures

ing on Homemade Concentrated Limesulphur wash.-1 (a) in early mpa
 ${ }_{2}$ COMMERCLAL LIMESULPHUR WASH.
 sulphar wanh or with Bordenur misture- 2 its. to 40 gals, of the wal
4. Bordeaux mixture.
5. POISONED BORDEAUX.- -2 to 3 , lbe. of arsenate of lead, or $1 / 4 \mathrm{lb}$. Paris gree
added to Bordeaux. as prepared in 4.
separating the diseased area from the healthy issue
If your correspondent will specify more fully as to which injury is probatly present, I shall be glad to outline remedies.-:

## Orchard and Garden Notes

Prune and spray fruit and shade trees and shrubs.
Topworking of plums or apple trees way be done this month.
Spinach and Swiss chard are epplen did greens, and are easily grown.
Oxheart carrots are carly, but the Chantenay is a better late-season va Ciety.
Prooure a good supply of garden
and flower seeds, if this has not leen attended to before.
A cold-frame can be made good use of late this month, for growing pansies, celery, cabbage and annual flowors for transplanting.

In grafting young trees, the metbou used is frequently what is known "Whip grafting.". This applios on o branches ranging in diameter from one-quirter to one-half inch. $P$ mything over this size, eleft grafting is the ordinary method.
I do not know that there is at pecial differenee between diffeten special difference between differen
sivles of grafting in the time require styles of grafting in the time require
for the scion to bear fruit. The ae of the stock, however, has conside able influence. It is not possible whip-graft large trees, and, therefort it is not easy to compare the th
points. Grafts placed in a yount points. Grafts placed in a young
tree by the eleft-grafting methon tree by the eleft-grafting methoof form a very good union and are nay hikely to bear much earlier tham natural for the variety. Scions plamy
in old trees or on larger branchas ftrquently bear early because of the infperfection in the union, which is it vidence for a number of years, is the failure of the parts to unite perfectly that hastens bearing.
J. W. Orow, O.A.C., Guelph.

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 some good Ontariooffer the following or over, ex wareh Buss free
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White
If you order 50 bu
Wid reduce above pric
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BLACK TARTARI REGENERATED B FOENTHATED They test 44 lbs , to
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50 buch or more we Barl OA.C. No
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Prizetaker Golden Tankard
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If $y$ an live in Ont ind the or more of on Timothy, we mill pay
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Prizetaker
Oolden Tan
Golden Tankard
Glant Half Bugar
For Corn Prices see lant isnue of this
paper, page f38.

## Clovers and Timothy

 Herowith find prices good for one weekt , m date of fwne of this paper if unt im date of lisese of this paper if un-
sol ut you live in Ontario and order
100 the or more of our Cive Cod the or more of our Clovers and and
Iomothy, we will pay the frietht to
Tin Thmothy, we will pay the frelight to
your noareat etation. otherwise our prices are ex-warchoans, Toronto. Cot-
ton bage for Olever and Timothy at 2 Sc . $\begin{array}{cc}\text { Red Clover } \\ \text { Sun brand } & \begin{array}{c}G o r t s t a n . ~ P r i o e ~ p e r ~ b u s ~ \\ \text { No. } 1 .\end{array} \\ \text { S15.50 }\end{array}$
sun brand
Moon brand
815.50
14.50
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Koon brand
Clotet brand
Alt
${ }^{18} .75$
Clover.
18.06
13.00
1.000
13.50
13.00
9.50
8.60
$8 . .00$

Timothy, Diamond Cirele
Cincent
the production of eggs would marki
ing scason is over, a large savinm
would be made, ns prectically
infertile egg would grade a first a
second if clean and promintly
keted. No more simple or efficien
method for the improvem
method for the improvement of the
egk supply of the country could te
adopted than the production of infer
Unite
ada.

## Rural Life" Pointers <br> ing out of bonsinees or if you are go and feed them. To sell them for any other reason is foolish

pullet is an asset on the pon'try farm
and the rule is, none of ton many of them.
If you do not want anybody to Cheat you or afterwards have doubte have vour own weight of shipments, scalded or dry scale Fowls just weight, even if ieed. Bear this in mind, when comparing the returns from the city house with your home
weights. weights.
Raise your own pullets, if you wish
to be sure of what you are rely on. Like breeds like, is an old saying, and hens mated right should have pullets that are near them in quality. Again, pullets grown up on the farm, will do better on the old
farm than anywhere else farm than anywhere else. Every move, every change is a setback to their productiveness.
Go over the apples and nort out all rots. In cutting out the rot spots, the hens will delight to take the rest. Variety is the spice of life and apples are a relish to hens that are conflined As the henhouse during the winter. As rots will flavor the eggs, they should be ent out.
Do not work hard for your money and then squander it. If you paid ont good money for hens or eggs for hatching, see to it, that the former
have a chance to do their beat, while you take care of the latter and be sure to koep lice down on the chicks. Do not wait till lice appear, Lut work the preventive plan. Use grease hesd, neck, below wings and

## Poultry Pointers

Make the nests for the early sitting hens of flne hay so that they will be warm.
Always disinfect the incubator that was used last year before using it this year.
The few dirty eggs that are produced should be consumed at home and not washed and sold.
Don't put eges in an inerbator until you have operated it a fow days to make sure that you have it under control.


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Ship your New Laid Eggs and Fresh Dairy Butter to us. PROMPT RETURNS EGG CASES SUPPLIED

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CREAMERY NEAR CAMROSE, AIBERTA:
Qood propomition for a young man sith Good proposition for a young man with
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PARTRIDGE WYANDOTTE EGGS, 82.00
per 15 . Egel from one of the bet pens per the Eges from one of the beet pent
fo the Townehips. Prise winning etrain.-C. E. Rowe, Barnston, Que.

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> remarkable tonic, which cures Heaves because it puts the system right.
Fleming's Colic Cure-will surely cure a
Fleming's Lump Jaw Cure-the i rst successful Lump Jaw Cure-to-day the standard treatment.
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## Thursday, May 23rd, 1912

The offering includes 20 females from Cornelius Posch,
50, who won First Prize Five Years in Succession ai 2250, who won First Prize Five Years in Succession at 10 Heifers from Butter Baron, 9186. The four nearest dams of this sire averaged 4.4 butter fat. His dam, Queen Butter
Baroness, is the 3 -year-old 30 Cows in milk, nearly every one with big weekly and yearly
Official Records, also a few Bull Calves from Butter Baron, and out of cows with good big records
high testing stock. Several of my lemales average above 4 butter fat. They hever records from to,000 lbs. to $15,000 \mathrm{lbs}$.
as 2 -year-olds to $\mathbf{1 9 , 0 0 0} \mathrm{lbs}$. milk in one year as mature cows. This is the kind of Holsteins you want for foundation stock or to Plan to come to my Big Sale, MAY 23rd. Send now for Catalogue. Rigs at Station on day of sale
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o your friends and get. VETFRINARY protesion. Catalosue
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detramies the price at which it may Therefore, when spelecting a separator, remember that the machinos which are offered at an unreason-
ably low price can be offered at the pres reason only-they are built to sell at prices lower
than the cost of good material or workmanslipe Such separators are costly at any price. Only a good separator is cheap; not because of a low
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## Wind an I H C the cheapest separator you can buy, because

 Qo to the nearest 1 H C Cealer who handies these separators and seehow carefully they ure made. You will find that they have phospler how carefully they ure made. You will find that they have phosphor
bronze bushings- that the gears arespiral cut-are entirely protected from grit and milk, and at the same time are ensily accessible. The neck bearing istrouble-proof. The patented dirt-arrester
chamber removes impurities before separation hegins. These separators are made in four sizes. Ask the I H C local agent to show you one, and give you a catalogne, or, write the nearest branch house for catalogue and any other information desired

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## treefensefesfestseefeses CITY MILK SUPPLY DEPARTMENT

## 

Milk in Towns and Cities Prof. H. H. Dean, O.A.C., Guelph In many cases milk leaves the farm in good condition, but is spoiled during distribution. In many towns and cities milk is sold by irresponsible
milk dealers, or in shops which are milk dealers, or in shops which are
not by any means sanitary, and not by any means sanitary, and
where goods are kept whick taint the where goods are kept whick taint the
milk. We frequently see cans of mille milk. We frequently see cans of milk
distributed by a man smoking a dirty distributed by a man smoking a dirty
pipe, and the nir for several feet around the rig reeks with ${ }^{\text {a }}$ ? vile-
smelling tobacco odor. The mil from smelling tobacco odor. The mil from
such a milk wagon or sleigh such a milk wagon or sleigh cannot
be clean. Just faner a man drawing be clean. Just fancy a man drawing smoke into his mouth, then exhaling
it through nose and month, and then it through nose and mouth, and then
compelling all those near him to compelling all those near him to breathe such smoke, and those who
deal with him drink milk which has been exposed to the vile odor. A man who does this, so far an his manners go, is no better than a hog.
We look for the time when the work of milk distribution shall be entirely controlled by tL : munivipality, either directly, as a matter of puplic owner-
ship. which is the modern tendency, or indirectly through companies or
or or indirectly through companies or
corporations acting under franchises corporations acting under franchises
which will safeguard the interests of producers and consumers. The present method of having several small
dealers driving over the same streets dealers driving over the same streets
and distributing milk from cans and and distributing milk from cans and
wagons which are not at all up to snnitary requirements, is a wasteful plan, lacking the essentials of hy-
gienic and economio principles. What gienic and economic principles. What and whirling wagon "vitality" goes
on every year in connection with the on every year in connection with the
distribution of milk in towns and sities.
Where the municipality does not feel free to engage direetly in milk distribution, it would, in our judgment, be a wise plan to place this
work in the hands of suitable corporations. It is the duty of a town or
city to city to see that the inhabitants are fupply as important a function as supplying pure water, if anything more tho children depends upone the children depends upon pure,
wholesome milk.-Extract from an address.

## Which Breed is Best

## 1 would like some advice, sound and practiol. on the following

 practinal, on the following problem, through your paper. A and $C$ have a bueh farm each, in the very fertile bot-tom land of the Salmon River Valley, tom land of the Salmon River Valley,
about onethird eleared.
The solt produces luxuriant crope of elover, alfalfa, duces luxuriant cropa of clover, alfalfa,
timothy. fodder corn, grain. peas and oats, potatoes, roots, ote. Pasture in the bush is somewhat seant, but heeps grow-
tng all summer and fall until the leaves fall. then there is abumdant grasing on the hay meadows. They keep a herd of
10 cows each and a few helfers, of fairlv good grade shorthorn cows, from which they derive an income of say 8700 a year by letting them ruatle all they can as long as they ean and feedine them mostly on
hay through the winter. They are aware hay through the winter. They are aware
that this is not the best method but an that thin is not the beat method, but an
ther cannot afford to hire much laber they cannot afford to hire much labor
for olearing land and doing all the other fork benides, they have to do it themselven
and cannot spara mueh time for the bet ter treatment of the cows. Feed also hae hitherto been rather hard to get in suflcient quantity from the limited eleared areas. Their mod? of inirying conninte of making butter and velling eream.
Now the time has eome when an abun-
dant anpply of feed (roweh) dant thpply of feed (rouph) Is assured.
and they feel that on their hieh-prloed land it would be wise to too into dairying more thoroughly, as it is questionable Whether they ean compete with the prairie
in raiaing beef or dual purpose gatcle.

## d

 dairy cattle of ought to go int.Planting the Wm. Naismith, Mus I begin this short ing reference to the
convinced that the ki convinced that the ki
kola has largely con sucess as a grower
My farm is slightly tural drainage, expo east, and sheltered
west by a granite ri west by a granite ri
being a rich, warm fuickly responds to g being underlaid by a commonly called hard moisture, even in the such as 1911
As potatoes require tation following peas, tation following peas,
isod the previous yeas credited with drawin manurial constituents
the vines, acting as a the vines, aeting as a
finother weed growt fonother weed growt
claan, mellow seed ber ing erop. I also gro breaking pasture lanc in August, disking an once to hasten decom This is repeated as of until snowfall. When and before the snow and spread 20 loads o ure to the acre.
In the spring soon as the land is dr
over the field. I th over the field. I th
manure under and ha manure under and ha
surface. With a plough, with marker a
begin on one side of $t$ begin on one side of $t$
ing out planting furT ing out planting furr
left alternately. four planting by hand, dist pending upon habit covering by a simple by one horse, resem?
plough, which covers plough, which covers
time and does the worl time and does the worl
I run a short toothed fengthways of the rows intervals, finishing ju sppear above the gro

Control of Bovine Tuberculosis in catt ventahle, is found in caity in which cattle is mueh more prevalent
munities than in other is most prevalent wh is most prevalent
are closely stabled. eave exists in the herd contracted in the past Since the cause and $m$ now is to keep it out herds and to eradicate diseased ones. All that is to remove the disea infect the premises, p With other diseased h yends. This sounds
herithy snimals characteristics of tuberc it quite difficult. For in culosis is somewhat slow opment and in the ear animal shows no outwar disease, is thought to be is used as a healthy an really is spreading the test with tebeh Early diagnosis is nex there are no dependable, in the early stages, the
positive diagnosis is al However, the tuberculin derised and is reliable competent and experienc If the herd is healthy purchase only tubercul mals which have come herds they should be kep three months and re-teet

## Planting the Pototo Crop

Fin. Naismith, Muskoka Dist., Ont I begin this short article by mak ing reference to the soil, for $\mathbf{I}$ am conrineed that the kindly soil of Mtsskoka has largely contributed to my success as a grower of seed potatoes.
My farm is slightly rolling with My farm is slightly rolling, with natural drainage, exposed to sonth and
east, and sheltered from the northwest by a granite ridge. The soil being a rich, warm, sandy loam, quickly responds to good culture, and being underlaid by a compaot subsoil, commouly called hardpan, it retains moisture, even in the driest seasons, such as 1911.
As potatoes require alundant hum-
us in the soil, I prefer to us in the soil, I prefer to grow in rotation following peas, which has been
and the previous year. Tagumes are isod the previous year. Legumes are
credited with drawing. lightly on the manurial constituents of the soil and the vines, aeting as a mulch, tend to fmother weed growth and leave claan, mellow seed bed for the follow-
ing crop. I also grow on sod land. breaking pasture land the first week in August, disking and harrowing at sod and prevent grass from crowing This is repeated as often as required until snowfall. When sleighing comes, and before the snow gets deep, I hau! and spread 20 loads of barnyard manare to the acre.
In the spring, early in May, as
soon as the land is dry, I run a over the field. I then plough the manure under and harrow to a level plongh, with marker attached single ploging on one side of the field, throwing out planting furrows, right and left alternately, four inches deep, planting by hand, distance apart docorering bon habit of varee and by one horse, resembling plough, which covers two rows snow time and does the work satisfaeterily Irun a short toothed, steel harrow lengthways of the rows, three times at intervals, finishing just na the plants
appear above the ground. appear above the ground.

## Control of Bovine Tuberculosis

## Tubereulosis in cattle, though pre-

 ventable, is found in almost every locality in which cattle are raised. It is much more prevalent in some communities than in others and usually is most prevalent when the animals are closely stabled. Where the disanee exists in the herd it may also be contracted in the pastures.Since the cause and means by which it is spread are known, the problem now is to keep it out of the healthy herds and to eradicate it from the diseased ones. All that need be done is to remove the diseased cattle, dis-
infect the premises, prevent contact with other diseased herds and add ony bealthy arimals to the healthy herds. This sounds easy, but certain characteristics of tubereulosis render it quite difficult. For instance, tuberculosis is somewhat slow in ita development and in the early stages the animal shows no outward signs of the disease, is thought to be healthy, and is used as a healthy animal, while it roally is spreading the disense. test with tebehevlis
Early diagnosis is neoessary there are no dependable, visible signs in the early stages, the problem of positive diagnosis is all important. However, the tuberculin test has been devised and is reliable when used by competent and experienced men. If the herd is healthy, one should purchase only tuberculin tested animals which have come from reliable berds. If they come from doubtful hords they should be kept isolated for three months and re-tested.

If the test shows only a few disbe removed at once herd they should infected. If the diseased animals are of a special value for breeding they may be kept isolated and the offapring removed at birth and never allowed to feed upon the milk of the diseased cow unless the milk is pas teurized.
If the majority of the herd is diseased, it is necessary to treat them all as diseased and to build up a neth herd from the offspring. This is pos sible by removing the calves at birth and feeding them pasteurized milk and testing them every six months so that the diseased, if there should be any, may be taken from the new herd before they Legin to sprehd the discase. Thas requires several years
time, great perseverance in preventing the disease from being transmitted to the new herd, and persistent use of the tuberculin test.
We must have systematic and regular tuberculin testing. The disease is a slowly developing one; hence, to systematic it requires several years of systematic and cooperative work on
the part of both stockmen and veterinarians. If every community did its share of this work, eventually we should be rid of this dreaded disExperiment Waston State Agricultural Experiment Station

Avoid Lost from Short Pastures Prof. W. Fraser, Illinois Exp. Station For the farmer who can make the harger investment, the most pracuca way of all to provide green feed for
summer drouth is to fill a small silo withmer drouth is to fill a small silo the labor islage.
putting in and the cultivation of the patches of different kinds of crops, out also in harvesting from day
These soiling crops can be dispensed with and all the feed raised from one planting in one field in the shape of corn. The whole field of corn for the
silo may be cut at just the right atage of maturity, when the most nutri ment can be secured in the best possible condition for foeding. It also aroids the possibitity of the soiling period when the drouth happens to trike the pasture. For the silo may be opened whenever the pasture fails, regardless of the date, and the silage Will remain in the best condition as long as needed.
When the pasture again supplies sufficient feed what is left in the silo may be covered over and thus preserved with little waste and added to when refilling the silo.

## Homeseekers' 'and Settlers' Trains to Western Canada

30th, and every second Tuesday there 30th, and every scoond Tuesday there-
after until Sept. 17th, inclusiveTickets will also be on Northern Navigation Company. Special train will leave Toronto $10.30 \mathrm{p} . \mathrm{m}$. on above dates for Edmonton and points in Manitoba and Saskatchewan, stopping Railway points on Grand Trunk Pacific Railway weat of Winnipeg. Through coaches and Pullman Tourist Sleep. ors will be carried fully equipped with bodding and porter in charge. Berths may be secured in sleepers at a low rate. This is an exceptional opportunity for those wishing to take ad vantage of the remarkably low oneway Settlers rates or round trip Homeseekers' excursions through the Amerioan oities. No change of cars. Secure tickets and berth reservations from any Grand Trunk Agent, or write A. E. Duff, Distriot Passenger Agent, Union Station, Toronto.

## Write NOW for Your Copy of DRUMMOND'S New Catalog <br> 52 pages full of pictures, <br> With this catalog to guide you,

 Sterillac Sanitary Pails, Cow
Testing Apparatus, Milk
Scules, Scales, Babsock Testers,
Surgical Instruments. Sanitary Milking Stools.
Hand Separptors. Hand Separator
Farm Creamery OutFarm Creamery Out
6is, Churns, Butter Feed and Litter Carriers.

Learn

 How to Save Time and Money Buying Your Dairy Supplies many will surely find making your work fasier PREEE ess. and results better. W. A. DRUMMOND \& CO, ${ }^{215} \mathrm{~K}_{\mathrm{kmp}}^{\mathrm{Kman}} \mathrm{st}$. . Toronto


## An IHC Manure Spreader

## a Necessity on Every Farm

IF you expect to oomtana farming and raiza a payig cropever aken from it by growing crops, Neglect is bound to decrease the productivity of your farm, and, in the end, to rum to decrease farm is once run down it takes ycars of slow, caretul upbuildug to fig it back to its original fertilit
fertifize tuneventy and waste fully half thin manure with a fork, you an 1 H C manure spreader properly, the fertility of your sone proves at a constant standard, while its physical condition im-

## and the best possible stand when weather conditions are unfavorabie, <br> 1 H C Manure Spreaders <br> Corn King and Cloverleaf

## will spread minure as it should bo spread, in an even coat all over

 the plant food elements in it come beeded, and puiverized so that Ant iH C spreader has many mechanical apron moves on steel rollers rumning on steel trackatages. The struction reduces draft and prevents the apron from slipping under A strong durable feed moves and manure, at any desired rate of speed. Thes steady mov toward the beater manure spreading whether the spreader ty govement masures even Compare the 1'H C apron feed mechamsm with hill or down. any other manure spreader and see how much stronger and more positive it is. I H C spreaders are so constructed in every detail that they do their work positively, 1 H C spreaders are made in different st horses. for use in orchards, vineyards and gardens, on small and large farms. The IH C local agent will show you the machme best adapted to your needs, See him for cata. logues and full information, or, write, nearest branch house International Harvester Company of America
 1HC Service Bureau

April, 25, 1912.
Population and L
The natural requiren lation of ninety millio ment, the year round ment, the year ricient lands inc number. It follows, wer wiling hands ide, some cither wholly mains either wholly
satisfied. Idle labor satisfied. Idle labor in
loss; that of the labore loss; that of the labore
means of subsistence means of subsistence
and that of the comn and that of the comn
poorer by the value of poorer by the value of
I might have produce ly employed.
The advocates of a contemplates
desideratum for th ndustrial enterprises they are selfish and whatever conditions $m$ prosperity of the Sta fug run react agains profit, for the time the existence of such labor, with its attend wages.
population buings
American rural life ain its best economic velopment so long as upen transient or non
the carrying on of the carrying on of
during the critical during the critical
rear, and habitually $r$ nent population whose double or quadruple th lands. The denial of ho

## $X X V$

To us it seems money to place an as in a paper simply sta sell a certain line of our prices are lower, goods are better, than titors, etc., etc.

We very rarely s? about our competitors LET HIM PAY FOR ADVERTISING'; we
ing to give him any, vertising is to just ke ingly at it; make ou correspondents welco good any and all prom vertise,-then success come our way

When business is we give the most atte advertising.
These words of wiso testimony of a Farm Company, at Norton, What think you of phy

It is a winning pr put real sales talk int vertisements rather statements, which may be disputed; it's well vertise your competit sure is well to do t phings they mention, a BUSINESS IS MOS GIVE THE MOST A TO YOUR ADVERTIS

Do these things an prosper.
You will, of course, the proper media, and the prosperous dairy f want to reach you wil paper, Farm and Dair "A Paper Farmers

## Population and Labor Supply

The natural requirements of a popuIation of ninety millions of people are more than sufficient to afford employment, the year round; for every pair of efficient hands included in the number. It follows, then, that wherever willing hands are compulsorily ide, some human requirement remains either wholly or partially unmains ather wholly Idle labor involves a double lass; that of the laborer himself, whose means of subsistence are shortened, and that of the community, which is poorer by the value of what the laboref might have produced if kept stead ily employed.
The advocates of a system which contempiates "a surplus of labor" as a desideratum for the prosperity of ndutrial enterprises are as foolish as bey are selfish and inhuman. For shatever conditions mar the genera: prosperity of the State must in the (fag run react against that of parffular industries which seemingly profit, for the time being, through the existence of such a surplus of labor, with its attendant low scale of wages.
population buinas probpebity American rural life will never at tain its best economic and social development so long as farmers depend upon transient or nomadic lator for the carrying on of their operations during the critical seasons of the year, and habitually repel the permanent population whose coming would louble or quadruple the value of their lands. The denial of homes and steady

## XXVI

To us it seems a waste of money to place an advertisement in a paper simply stating that we sell a certain line of goods, that our prices are lower, that our goods are better, than our competitors, etc., etc.

We very rarely say one word about our competitors. We say, LET HIM PAY FOR HIS OWN ADVERTISING'; we are not going to give him any, that is sure.

The idea we practice in advertising is to just keep everlastingly at it ; make our callers or correspondents welcome; make good any and all promises we ad-vertise,- then success is bound to come our way

When business is most quiet, we give the most attention to our advertising.

These words of wisdom are the testimony of a Farm Implement Company, at Norton, Kansas.
What think you of this philosophy?

It is a winning proposition to put real sales talk into your advertisements rather than mere statements, which may or may not be disputed; it's well not to advertise your competitors; and it sure is well to do those other pthings they mention, and "WHEN BUSINESS IS MOST QUIET GIVE THE MOST ATTENTION TO YOUR ADVERTISING.

Do these things and you will prosper.
You will, of course, first select the proper media, and when it is the prosperous dairy farmers you want to reach you will be in this paper. Farm and Dairy-
"A Paper Farmers Swear By"
employment to the agricultural laborer, and the general refusal to employ married men unless they will agree tack the very sources of a wholesome development
The only natural and healthy labor system, in an agricultural region, presupposes the occupntion of the land
by those who till as well by those who till as well as by those who own it. Attach the laborer to the land by the tie of owsership, no matter of how small an area so that it sumices for a home, and the founda The is at once laid for such a syatem acres may profitably afford homes, with four or five acres attached, for a dozen families beside that of the present owner. In France and Germany,
30 or 40 families find on such an area the means of lixelinood, for educating the children, and for saving up something for investment.

HEARTLESANEBS
The essential heartlessness of a large portion of the "deals" between farmers and laborers is illustrated by a plan commended in Farm, Stock
and Home as used by "one of the most and Home as used by "one of the most suocessful farmers and handlers of men in the North-West." It is outlined as follows :
"When hiring a man he engages him for the entire season, say for eight months, at a total of $\$ 210$. Assuming the time of beginning work to Le April 1st, the hired man is cred ited for April and May with $\$ 18$ a month. In June a credit of 820 is placed to his account. July he receives a credit of $\$ 22$. During August this amount is raised to $\$ 30$, and in September, when harvest wages begin to appeal to the man hired on the ordinary flat schedule, his month's credit is \$35. There remains due him for the entire period \$93, which is distributed over the remaining two months.
not as good as it looks
In its commendation of this plan as seeuring the farmer against loss by the hands quitting without warning, and as being also "to the advantage of the man who hires out," the paper quoted entirely ignores the fact that at the end of the engagement the man is rewarded for his faithful service by being thrown out of work, with a dubious chance of finding other employment for the remaining one-third
of the year. of the year. Spreading the $\$ 240$ he gets over the additional four months, his wages in reality amount to only $\$ 20$ a month.
If the "successfu! farmer" who shrewdly contrived this scheme should address himself to the problem of finding year-round employment for as many men as he'at any time needs on his farm, and tying their fortunes to his by allotments of small parcels of land, he would probably find it not difficult of solution, and in many ways profitable, in the long run, to himself. For any increase of the permanent population has, from the beginning of history, been everywhere attended with marked increase in the value of land; and the sutstitution of a settled for a nomadic laboring population means a large increase in the general prosperity,-C. R. Barns, Extension Division, Minn. College of Agriculture.

## Dairy Notes

The way the cow fills the pail is a good indieation of the liberality of the owner at the feeding end.
There are money makers in every breed. Likewise there are star boarders. The secret of successful dairy farming is to cull out the latter and improve the former.
Enthusiasm is as necassary in dairying as in preaching. To work up the proper enthusiasm we must have the proper enthusi
reed we like.

## SEE AND TRY A DE LAVAL CREAM SEPARATOR

We cannot believe that there is a sensible man living who would purchase any other than a DE LAVAL Cream Separator for his own use if he would but see and try an improved
 DE LAVAL machine before buying.

It is a fact that $99 \%$ of all separato buyers who do SEE and TRY a DE LAVA! machine before buying purchase the DE LAVAL and will have no other. The r $\%$ who do not buy the DE L.AVAL are those who allow themselves to be influenced by something else than real genuine separator merit.

Every responsible person who wishes it may have the Free Trial of a DE LAVAI machine at his own home without advance payment or any obligation whatsoever Simply ask the DE LAVAL agent in your nearest town or write direct to the nearest DE LAVAL office
De Laval Dairy Supply Co., Limited

montreal

PRINcEss st., WINNIPEG
NEXT SPECIAL
Will be our 4th Annual Farm Improvement
Number of Farm and Dairy, out May Number of Farm and Dairy, out May 2nd your copy in early, and the best of our
serviee will he yonps.


## "You Bet It's Fine

You can use this razor with safety and comfort.

Once you use it you will never do without it.

## $\$ 5.00$ for one.

"I never could afford to give that much for one either, but I noticed setting them two new subscriptions to Parm and Dairy. 1 sent for one, firs tell you it's grent.
"It's a Gem Junior Safety Razor" and nat highly polished. It shaves so easy I could hardly believe myself that it was taking off the whiskers.
"And it has seven genuine Damaskeened Gem Junior Blades and a com bination stropping and shavind handle, so I can keep them sharp and in use

Brother Farmer! We have a Gem Safety Rasor outht for to you in a subatantial velvet lined box, just desoribed, and we'll send it you postage paid and absolutely free in return for getting us only two new subscription
$\$ 1.00$ each.
This is a most useful, satiafying article
and will prove a delight to any man who and will prove a delight to any man who
shaves. shaves.
We're glad to be able to offer it to you
this way. We know you'tl like it and tell your friends about it.

See right awny about getting two of your friends to subecribe to Farm and Dairy, and then write us for your safety

Farm and Dairy
Peterboro, Ont.


## Last Pound Skitnmed As Well As First Pound


"STANDARD" cream guarantee that you cane skim to the full cream sepayator and even if the milk is not at its natural heat, and that the last pound will be skimmed the skimming is done, open up . After the skimming is done, open up the

## Standard

ample space between the bowl and you'll find the inside edges of nor the outside edges stuffed with formore impurities than will acs and the bowl to provide room for This is one of the greatest improvements in cream separator, Director of Dominion Experimental Farms, Ottawa, and carried ALL THE CREAM, NO WASTE. Our booklet explais feature and many others more fully. Drop a post card to-day The Renfrew Machinery Co., Limited Head Office and Factory-Renfrew, Ont. Sales Office--Winnipeg, Man., Sussex, N. B.

## Extra Money

## You oan earn money in leisure hours, or when you go to town to the blackemith reamery, the mill, to the cheese fackory or

 nelghbors, by speaking to your frienda and ting them to subarm and Dairy and got commission for each new ay a liberalget for ne subll this proposition first time you get busy
the rural publishina co.
$\qquad$

## Partner Wanted

 and butter factory (Elgin County. Ont.) hood make. Fine district. A progresalve, 81,000 , can come in with man, with about ager and make money. Owner leavingation ager and
distriet. Full partioulars on appication to Box 457, FARM AND DAIRY, PETERBORO,
ONT.

## - eetestestespeceseeseecees:

## Creamery Department

)


Comments by a Cream Drawer
Any pataron sending Co., Ont,
creamery that does not test 30 per cent butter fat is sending at a loss In the hot summer monthe the cream should test 40 per cent. Cream is easier to koep swect than milk.
The cream gathrrer's instructions take the test from the bottom of the take the teat from the bottom of the
can. If the patron does not keep his oream thoroughly stirred he is getting paid for milk. And the reamery man is making butter out that patron's oream.
Every one knowx that
very entioing trap for rats and mice Rats will get in the best of cellars, but it is gross negligence to let them sary to have a dozen and one vossele containing eream sitting on the cellar floor. Two vessels are quite sufficient if they are of the right kind and right Five cents' worth of wire netting will make a cover for these vessels. lid, turn the lid upside down, take a three-inch wire nail and punch lote of
One can should hold the cream until
the animal hoat is out of it the animal heat is out of it. Then empty in to the cream can proper.
Have a paddle made long enough Have a paddle made long enough
to reach the Lottom of the can Stir thoroughly twice a day from the bottom every time one emptics in cream. There are not so many dishonest people in this world as some imagine, The manufare some careless ones. profit as he geta so mueh a pound r making.
Your near
Your near neighbor whom you so

## Save Time, Money and Bother By Buying All Your Dairy Supplies from DRUMMOND

Write right away for our catalogue-do your buying by letter from the largest dairy supply house in Canada. Any of the following shipped promptly on receipt of price. BEAVER Cattle Instruments


Beaver Cattle Case No. 2


Cattle trocars for bloat
Milk fever outfil, complete
Hard milker outtit, complete Peat expanders
Plain milking tubes, 3 inches
Self-retaing

Beaver Garget Outfit


## Write Now for FREE Catalogue



## W. A. DRUMMOND \& CO.

215 King Street E.
much envy, who takes proper care of his cream, gets credit for every pound
of fat that is in his cream of fat that is in his cream and somit of the pounds that are in yo
The outside and surroundi The outside and surrounding
creamery onght to be entigif creamery ought to be enticin The inside shont careless white and should be seruntlount for handling the the table and vessed wood or material that looks white and entioing when clean.
Nothing more should be stored the manufacture of first-class hi If the factory is forst-class butter rould not be selling their det for 25 not be selling their dairy butte for 25 cents a pound when
is selling for 23 to 24 cents.

Justice for all Patrons
W. A. Wilson, Dairy Comm

We all admit that the flay cream determines the flavor of butv and its bacterial content and varelo? ment determines its keeping qualitie Who, then, among our farmersus sponsible for the good quality of that will lose responsible for butte short time? Any reasonable-mili
sher person must admit that the farmen who take care of the eream while on the farm and deliver it in splendid condition are the backbone and mail. stay of the whole institution. On the other hand, the farmers who are careless and indifferent in their general dairy work on the farm art directly responsible for any hut that is manufactured which does nof possess good keeping propertios in though the whole lot of cream is mis ad together, the former class rases the standard of quality for the lab dard for the former. reduces the slan.

FAIRNESS op GRIDING BYstem
Heretofore all have recejved a aid ar price for their product. No clas distinction has been made. reward for services rendered man who knows and cares has been continually sacrificing his interoste ill and doesn't care. It is our duty offer a just recompense and reward to the patrons who do their work conscientiously and according to the
best information they have and why are continually seeking more inform cooperative creamery mainstay
corls
The time is not far distant when they will demand that they receise some recognition of their services and that their product be graded, as other
farm products, and paid for aocord farm products, and paid for aocord. age, if they witharaw their patron readily realize what assistance they have given him. We therefore prothe dairymen of the consideration of which will give s promium paymen on first grade cream premium payment on first grade cream and which will prove an incentive to the patron
whose produce doss not elass ns whose produce does not class as such to better his methods and to qualify for the higher price.

## What is Cream?

1 Gream is thas portion of mikt, rich in milk fat, which rises to the surfuce of milk on standing, or is separated from it by centrifugal
force, is fresh and clean, and comains (unless otherwise specified) not less than eighteen (18) per cent of milk fat.
2. When Guaranteed to Contain another percentage of mills fat than eighteen (18) per cent. of mill fat. it must conform to such guarantes. 3. Cream must be entirely free from gelatine, stucrate of lime, gums or other aubstannes added with a view to give density, consistency
apparent thickness to the article.

April $25,1912$.

## (3) $\overline{2} R$场

 Non Gates; Barbed an Mre:
price scap-los, I sure you big mone
lencing and quick serve fencing and quick servic
ple prosel 8 strands

Annapolls Valley ths aerest the most w in this celebrated Novi Kin machine worked fle Whand. 200 treest Wood make a man independon
brad.
pprigg watered a neat neghbors and adva
fise price for quick sale is flos price for quiek sale is

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| te this and another Wit |
| Win | clard, see page 63, "'sut

moth Parm Oatalogue. N wopy free; profusely filu
with a wonderful ansorts
and making farms through farming sections: stock a
fuld wita many at big cluded with many at big Yare. station 2,471, E.,
ipency, 294 Washington

Hay Tools, and Feed C Stanchion

Get Our Prices Befo R. DILLON

SOUTH OSHAW

WANTED WANTED-A good Farm man preferred), muat be anowledge of farm adil and salary wanted.
llos 24. Athelstan, Pro. $\$ 25$ Buys
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The "Pert Steel Chee Now


ing hand by tap., it thandy: Weat thatiner drop rumant
 Steel Trough \& Mach TWEED., ONT

## 

Selle diroct to buyers at factory prices. Iron and Wire Lawn and Farm Fence, all style: Gates; Barbed. Colled and Plain
Wiro! Staples; Pence Hooks: Tools. Special prioue car-losds
 fencing and quiek nervice. Here are sam-
pic prices! pie prices. Al No. Fence, 9 strands
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ber rod, ote Soventeonyears in Camainan fonce uninos. My printed matter explanamay meth-
$\mathrm{K}^{\mathrm{K}} \mathrm{K}_{4}$ ods. Get it. Write to-day.
 Y ERR-THE FENCE MAN
TORONTO Ask for Folder :

Annapolls Valley Frult Farm ns aefes: the mont wonderful bargain
in this celebrated Nova Beotin Falley nod 8 room house; $60-\mathrm{ft}$. barn, room for Nons bay, cellar under all; 40 acres rich
for machineworked fielda; young apple Gis machineworked fielda; young apple
Rhari. 200 trees; wood and timber will nake a man independent; pasture for 25 hand ppring watered and wire fenced sear neighbors and advantages; the saerifee price for quick sale is only $\$ 1,900$; part
cuth: set quickly or you will lose thit Por calh: set quickly or you will lose this. For all details and travelling instructions to clard, pee page 68 . "'strout's New Marmmoth Parm Catalogue, No. 35 ,"" juit out, cosy free; profusely ilustrated and filled
with a wonderful assortment of money. making farms throughout many rich farming seetions: stock and maphinery intle affairs quickly. We Pay Buyer's B. R Pare. 8tation 2.771, E. A. Btrout Parm tgeev, 294 Washington St., Boston, Mass.

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$\$ 25$ Buys a Sureshut file Machine
elther 3 moth or 4 tuch wize, order
oarly and make your own evment oarly and make your own ovment
tile for sping use, fapacity depends on speed of the operator, day. Send for literature. WTLLIAM JOY, Bes 27s, Napasee, Ost.

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 Steel Cheese VatOt "Perfect"Steel Cheese Vat has several
uniquemerite. Belng all steel it is dur~ able. Haviog no cracks or erannien for mill Hioder in and decompose, it is sanitary,
lising levers and gears for lowering and ralt-

ing inch by inch, it is handy. Also it is no built ideal drainer. equiphent for our nneofat cataloghe of dairy

SPECIAL, PRICE FOR; CASH L-
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Cheese Department
Makers are invited tosend oontributions
to this department, to ask questious on
mith matters relating to ohoeso making andto flagsont sublect for dieouasion, Addrest
 Conditions in Glengarry County 1. McDonell, Glengarry Co., Ont. farmers who follow the old system of airing the milk and not cooling with ice or cold
water immediatewater immediate
1 y after milking The result is that we have the uspal amount of overripe milk, acidy chease, and larger average during the hot weather. In my opinion the A. McDonell have made more of an effort to improve the quality of the checse in this section of Ontarif than the farmers have. This is seen sum number of instances during the summer when you see a fairly good artiele produced from milk that is not
fit to be taken to a factory, fit to be taken to a factory.
There are a large number (and I am glad to say the number is increasing rapidly), who make an honest effort to take the best care of their stands situated where the good milkstands situated where the milk will not become contaminated from unclean surroundings. They use clean utensils and have ice or cold water to cool the milk immediately after milking; hence the maker has a chance to make a sound clean article

## E. O. D. A. Executive Meet

 mittee of the Eastern Ontario Dairymen's Association was held in Smith's falls on April 18. Great regret was felt over the announcement that the president, Mr. J. H. Singleton, of known dairyme who is one of the best dangerously ill in the province, was dangerously ill in a Montreal hos-pital. Mr. Singleton has Leen sick some 10 weels.
The resignation of Mr. Street as one of the official prosecutors was acoopt ed and Messrs Glendenning, Thompson and Publow were appointed a committee to make arrangements for the appointment of an official prosecutor or prosecutors for the coming senson. Mr. Street's resignation was up cons in order that he might take up cow-testing work, A report sub mitted by the treasurer showed that the associntion has a considerable bal. ance on hand.
Resolutions were passed expressing the regret of the assciation concern ing the sickness of President SingleKon, and the recent death of Mr. M K. Everetts, of Smith's Falls, a former president of the association.

## Jottings

I believe that cheese is
ing proposition than but a better pay cessive value is put on the unless ex -R. W. Ward, Dairy Instructor, Peterboro Co., Ont.
Cooling milk is not a cure-all but it will go a mighty long way towards placing our dairy business on a better Publow, Khief Dairy Instructor G. G Publow, Kingaton, Ont
If we would follow cheese up each yoar, we would find that it is the cheese with the flavor that holds that the buyers are after each year. They cot such on one-fourth of a cent to got such cheose. They go after the same factories each vear.-D. Derby-
shire, Leeds Co, Ont.

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a Cream Separator this year. You have your choice of a number of standard makes, including the famous


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which will do some things others won't do-because Empires have some patented features that have never been successfully imitated, although competitors would gladly copy them if it were not for Empire Patents. Just what these features are, is fully explained in the Empire booklet.

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#### Abstract

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$\mathrm{I}^{\mathbf{5}}{ }^{\mathrm{E}}$ noble, and the nobleness that lies in other men, sleeping, but never dead, will rise in majesty to
meet thy own.-Lozeell.

## The Second Chance

## NELLIE L. McCLUNG Author of "Sowing Seedo in Danny" (Oontinued from latt wech)

Pearl, the eldest daughter of John Watnon, a O. P. B. section man in atilford, Man, reoelvee a sum of money and starta in to eduanto herself and the reat of the family. She proves a olever soliolar but seelng that her small brothers are getting隹 by Bud Perkine for striking Libby Ann Oavers. The Wateone again take ap their education at the country achool. At the Pioneers' Pionlo, Bill Gavers, father of Libby Ann, grets drunk and is found dead Bandy Braden, the hotel keeper, deeply affeeted, closes up his saloon in consequence. Mr. Perkins plugs his grain with frosen wheat and Bud gets the blame. He leaves home. Mr. Perking' daughter, Martha, is in love with a young Englishman on a neighboring farm, Arthur Wemyse Arthur is engaged to an Engliah girl, who la ehortly to oome out and
foin him in his new home. On the boat she falle in with another young man Join him in his new h
and they are married.

"IHAVE known men to marry unDonald thou thifululy, ${ }^{\text {too." }}$ "Some of the Hudson's Bay factors married squaws, know," Pearl agreed. "Old Louie Baker, then surveyred guide,
told Pa about his squaw. Rosie. He, liked Pasie fine and thought she was
like real pretty when there wasn ta white woman in sight, but when the white women began to come into the coun. try he got ashamed of poor Rosie, and every day she seemed to get dirtier
and greasier, and her toes turned in and greasier, and her toes turned in
more; and, anywav, Mo. Donald its more ; and, anyway, Mr Donald. irs
hard for a woman to feel that she isn't just up to the mark. Gettin' married ain't all there is to it you y
bet. It's only in books that they suy bet. It's, only in books that they say
people git married, and leave it like that, for that's when the real hard times berin-keepin' it up, and makin' it turn out well. That's the hard ${ }^{\text {part }} \mathrm{Mr}$.
Mr. Donald looked at her in wonyears, Poarl," hee said veravent

## Al Martha needs is more edaca.

 everything-it's in the air and on the ground, and all over, and it seems too bad if Martha can't grab holt of some of it, and her so anxious for it." "The well is deep, and she has nnthing to draw with," the schoolmaster
quoted ahsently. quoted absently quickly answered the words, and the woman was when she said there was about that draw with? Well, now, I believe Martha has something to draw with too-she has you and me, so she has You have the education that Martha needs. I'm gettin' it every day. Can't you and I pass it on to Martha ?" "How. Pearl"" he asked. 'I don't know just yet. I haven' (20t it thought out that far, But
there's some way, there's always some way to help people
It was time to call school then, and no more was said until the next day when Mr. Donald said to Pearl: "I believe events are coming our way Mrs. Steadman told me last night that she was going to Ontario for three months, and I am to wo else-
where to board. I wonder would Mrs.

Perkins take me in ?
Pearl gave an exclamation of joy she would, and you could help Martha every night. Isn't it just dands
the way things happen ?n That night Pearl went
ha on her way home to see MarPearl was way home from schuol. vould be taken to board.
Martha was alone in the house, her Mather and mother having gone Millford. When Pearl knocked at the door, Martha opened it. A spelling book was in her hand, which she laid
down hurriedly. pown hurriedly.
Pearl made known her errand. It was too good to be delayed.
Say, Martha, isn't it great He'll help you every night-he can tell you the most interesting things, he gets lots of newspapers and magazines, and he knows about electricity and politics and poetry and everything, and a person can get educated just by listrning to him.'
Martha stood looking at Pearl minute, then suddenly threw her arms around her. "You are my good angel Pearl Watson !" she cried. "You are
always bringing me good things. Of course we'll take him, and be glad to have him; and I'll listen to him,
you may be sure; and Pearl, I can't yust help telling you that, I'm so happy now-I can't tell you how Mappy I am.
Martha's brimming eyes seemed to contradict her words, but Pearl, who

Evergreens Make an Effective Seiting for the Farm House
The home of Mr. Weaver, Brant Co., Ont, in here Mlluatrated in iti setting of in that they give the farm home an attractive netting even in the winter monthe troen in that they give the farm home an attractive netting even in the winter months.
-Pboto by an editor of Farm and Dairy,
nderstood something of the springs "T can't heart, understood.
"I can't help being happy." Mar
tha went on. wicked for me to feel so glad Thursa's gone, when he's $s 0$ miserable over i
But she wouldn' ever have suited him would she, Pearl? She'd have made him miserable before long, and herself, too: but that's not all the rea-
son that I'm alad she's son that I'm glad
added, truthfully.
Martha's face was hidden on Pearl's shoulder as she said this.
found it all out it," Pearl said. found it all out that day when you
were showing me the room, and $I^{\prime} \mathrm{m}$ just as pleased as you are, or prett near. for him to marry Thursa, and
done the way it all turned out would con vince any one that Providence ain't feelin' above takin' a hand in peop'e's
affairs. She was nice and pretty, and affairs. She was nice and pretty, and
all that. but she's the kind that would all that. but she's the kind that would sour bread cuts love; she'd be just like Dave Elder's wife, it tires her dreadful to sweep the floor: but she can go to three dances a week, and and says her nerves are bad all day Martha, you do right to be glad. But never wrong to be happy. God made averything to have a good time. Look the mosquitoes-they birds, and even the mosquitoes-they have a bang-1! happy every chance we get. Whenhappy every chance we get, When-
ever you see it passin' by take at it. I mind, when I was a wee fittle hing, I had a piece of bright blue silk that I had found, and it was just
lovely; it put me through lovely ; it put me throuch a whole winter takin a lok at it now and
then. I had to stay at home while Ma was washing, and it was nret's cold in the house sometimes, but the blue silk kept me heartened up. the just ike a piece on Arthur's phonos-(eraph-here and there in it there's a liltin it just cuts into yor sweet and mind you, you don't get much o' that at a time. There's all kinds of clatterin' crash, smash, and jabber on both sides of it, cuttin' in on bet ends of it, and just when yer gettin tired of rough house, in she sails again sweeter than ever, just puttin' yer heart crossways with the sweeiness of it. It keeps ringin' in my ears all the time, that dear little rip needed all that gusiy and perhaps needed all that gusty buzzin' and rip roarin to drive the sweetness clean Martha: We've sot way it is always Martha; we've got to listen for the
little song whenever we can hear it." Pearl ${ }^{\prime \prime}$, Mistening to it all the time Pearl," Martha said softly. "It may not be meant for me at all. but it is sweet while it lasts, and I can't help Pearing it, can 1 Pearl?
Pearl kissed her friend
Pearl kissed her friend warmly and whispered words of hope, and then learing that this might be faith with out works, heard her spell a page of Hown wors od splecer


## CHAPTER XXIX

MARTHA'S STRONG ARGIJMENTs

## "How does love speak

The next week Mr . Donal over to the Perkins home. His Irum had been sent over in the manis and after school he walked home vit
Pearl. Mr. Donald had scen Pearl. Mr. Donald had seen Marth but had norvices in the schoolhoure now brought him in triumphant introduced him to Mrs. Perkins Martha.
The cleanliness and comfort of filled with blooming plants
ing canary, the well-blacken
with its cheerful squares of firal the bubbling tea-kettle all fireligh promise rest and comfort. Mary neatly dressed in a dark blue hon dress, with dainty white b apron. Kreeted him hospitab told him she hoped he would fold him she hoped he would
fortable with them. There ortable with them. There only a shy reserve that seemed ell with her steady grey eyes rentle voice Pear! was distinet proud of Martha.
When Mr. Donald went up to room he looked around him in plew surprise. It was only a small ree clusive, was well aired, and had which some rooms have of comh without apparent reason, have The stovepipe from the kitchen warmth through it, giving it man's had been of about the to man's had been of about the tempe feeling of satisfaction that the sec master hung his overcoat on brhind the door and sat down is rushioned rocking-chair. A rag ret, gaily striped in red, green, yellow, covered the floor, and a tav wolf-skin lay in front of the bed.
"This looks good to me," said schoolmaster, stretching himself ly ariously in his chair and enjoy
the warmth of the room pleasant feeling that at last with one little spot that he could call wn, where he could sit and read and be comfortable, wanted to, fust se came the pleasant rattle of dislies and an appetizing odour of bakion chicken.
Mr. Donald went to the washstand and washed his hands, smiling, ples
santly to himself. "Martha santly to himself. "Martha, I lip
you," he was saying, "and I'l ghol you," be was saying, "and I'll glad stock of history and geography an biterature and other things which w wall knowledge, and I will gladly pat with it for just such things as these ooking around him approving Martha, and I'll teach you all I knh and more." A few minutes later M. Dcnaid went down to supper.
Mr. Perkins did the honours table, and even wore his coat wh? he carved the chicken, as a token respect for the new boarder hospitably urged Mr . Donald to t
heartily, though there was no sper heartily, though there was no specil
need of urging him, for Marthy need of urging him, for Martha) good cooking and dainty servin
were proving a sufficient invitation were proving a sufficient invitation
Mr . Perkins was in fine terte, gave a detailed account of the he and Sam Motherwell madr inpeg to interview the Department Education about the formation of Chicken-Hill School District. Donald was much amused host's descrintion of the "Bis Chie" of educational matters.
(Continued next week) * \& *

There is no purer happiness thy the love of work, the results of whid

April $25,1912$.

## The Upwat

Lessons from
The terrible dest Titanic, with its appa has struck a chill to cirilized people and hearts to go out in pathy to the bereav well as to those
again on earth they have lost
minds have conceived vessel and its happy
hattered and overw seattered and overw
shat other ship. though the night with all sp and children, who ven in small boats and o ing saved, has caused ing saved, has our home Hyre safe in our homt
ank God that we h rom such an experiet bearts bave gone out

## Have You M

 WillIf Not, Your Fa protect
No Lawyer sary
Por wirtrare ment vill and be aboolutely
perfectly legal in every perfeotly logal in every
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care of. The courts are
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property are ald
the deceased would wan Life is very uncertain
lit eareot and dearest to nil that rou wish them of paying also fneludeal
midance. Fill natructions, and yat you
mill sure that it will atand
and cannot be broken and can
mances.
Why not send to day, Why rot
on your mind to The
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 EXCURwestern canada April 16th, 23r

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Sept. 17th incluaive. BPECIAL TRAIN WHL To AT 1030 P. M ON AI
BDMONTON AND POIN
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## TIIE MOST P

TREAL , BUFFALO NES
DELPAI Orand Trank, the only DOUBLE TRACK STEA MSHIP TIOKETS O.
For Tiokete and all In

## The Upward Look  <br> Lessons from the Titanic <br> The terrible destruction <br> Titanic, with its appalling loss of life, has struck a chill to the hearts of all civilined people and has caused our hearts to go out in the deepest sym- pathy to the bereaved survivors as well as to those at home who never again on earth will see the loved ones they have lost. The picture our minds have conceived of the stately ressel and its happy throng being shattered and overwhelmed ere another ship, though it sped through the night with all speed, could reach it, and of only the few, mostly women and children, who ventured their lives in small boats and on frail rafts beiug sared, has caused those of us wno Cure safe God that we have teen spared from such an experience. And so our bearts bave gone out in love and sor- <br> Have You Made Your Will?

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tice to those whom you wish to be taken tice to those whom you wish to be taken
care of. The courts are full of will eakes care of. The courts are fult of teral technioality or the ab-
where, by menee of a will, the people who inherit
property are aimost the last ones that the deevased would want
Life is very uncertain.
So if you winh to asaure those who are tuearoat and deareet to you of recoviving all that rou wish them to have, instead
of paying 85.00 to 810.00 to a lawger eend \$ cevts for a Bax Legal Will Form, which aso includea a spoeimen will for your
gridstice. Fill it out aceording to simple nure that it will stand every legal test and cannot be broken under any eircummances.
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row for those who have died, as well as to thoso who have been left to
mourn, we have been brought to realize how wonderously akin we all are. It matters not that among those who hather nations, and, in some cases, of
atren other tongues, or that some were riet while others were poor, our hearts
have bled for them all alike. And so they should, for has not God made of one blood all nations of men to dweil on all the face of the earth?
It is hard at such times as these to anderstand why our loving Heavenly Father should permit such events to that He doech all things well Just us the tender heart of Jesus was torn until He wept in sympathy with the sorrow of Mary and Martha over the death of their brother Lazarus (St Jolin 11, 35), so we nay know that the intinitely tender Creator is grieved and stricken in spirit on occasions of
this kind. God's great love for us-a love of great that He gave His only Son to die for our sakes-that we are led
to see that the saddest feature of this great disaster was not the loss of life but the fact that among those who died there may have been those who were not ready to answer God's summons when it came. For those who love God and who strive to live in death, as St. Paul said is but day It matters but little to them how suddenly it may come, or where it may find them, for they know that their Heavenly Father will be with them in death as in life, and they look for
a glorious resurrection. But to those who have neglected Gid's warnings and who have lived for time and not for eternity, how terrible must be the unexpected call when it comes! Is this not the great lesson this terrible incident should teach us, that at all
immes wh. should times wo should te prepared to meet our God? And we may learn too that
death is no respecter of persons. Thaw death is no respecter of persons. Those n the Titanic whose wealth wan counted by the soores of millions were as powerless to postpone the dread moment when it came-calling them Went throne of God (Romans 14, 10)
ment as were the poorest.
And then, also, we should remember that we have all been warned to be prepared for death when it comes. Christ warned us when He said Whateh, therefore, for ye know not
what hour your Lord doth come" (St. What hour your Lord doth come" (St
Mathow 24, 42). The apostle Paul warned us when he wrote to the Thessalonians, "But of the times and
the scasons brethren, yo have no need that 1 write unto you, For your-
adven know nerfectly that the dour of the Lord so cometh as n thief in the night. For when they shall suy Peaco and safety; then sulden dostruetion cometh upon them, as tra-
vail upon a woman nith child they shall not escape," (1 Thessalonians 5, 1-3). If, therefore, those of $w$ who are in the world will now pay heed and follow cver more carnestly St. Paul's advice that he gave at the same time we will "watch and be
sober," we will put on "the breastplate sober," we will put on "the breastplate
of faith and love, and for an helmet. the hope of salvation" and we will remember his glorious assurance that "God hath not appointed us to wrath. but to obtain salvation by our Lord Jesus Christ, Who died for us, that Whether we wake or sleep, we should live together with Him." (1 Thessalonians $5,8-11) .-\mathrm{I}$. H. N

Eye and ear are easy avennes to the heart. Unless we guard their gates sin finds in them the short out

## The Farmer

## If things were managed here yuuw

 The workers all would get their share And bring contentment to the home-

Intend of that the wires aro pulled Ind workers all aro groatly fooled They aro piled up with exur arred to mako a tow moreo millionaired
But when tho farmer gose to aell
The sharks they all set up a yell And try to cheapen all his wares To satisfy the bulls and beare.
Then when the farmer goes to buy
He finds the prious all up high
And leave the many sore in need.
Commisioion men thoy work a bluf Como obeat alir round in seling stuff Who live in style the winter through.

Another set they take first rank In getting up a farmers' bank But then when justice blows her horn For roguce nay come nad roguee mo no no they wander to and fro.
Back to the country oft they hark As farmers are their shining mark.
The politicians are so slick,
They listen oft and seldom kiok,
You fondly think you've gained the
day, But find it gees the other way.
For wealthy men they have the pull And other men they have to fool, Politicians talk both loud and long, But justice; why that is just k . oong
Let workers all shake off the toils And hoist the men who grab the spoile And justice then be done to all And punish regues both great and emall.

Wallace Mason, 659 Spadina
The family needs fresh
ust as much as in hot wair in cold, a mistake to so fasten storm-windows that they cannot be opened. Better no storm windows at all. For more di-ease comes from poor ventilation than from insufficient warmth. Storm windows save coal; but, unless so put ion, they multiply doetors' bills.

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 Just Let Nature Do It A few days ago a sister of Mrs. Vin-cent came to be with us for some time ceut came to be with us for some time.
At the breakfast table she said ii At the breakfast table she said,
like your way of living, anyway. Wke your way of living, anyway. No
pie or cake. I mean, and just good plain food" And we talked it over Among other things I said, "And we believe in breathing at our house, oo." Mrs. Vincent added that she times, just by filling her lunga full any

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wood in fair condition with two conts of paint that won't fade-crack or peel. RAMSAY'S are the paints you wast at Aik your dealer
in your town.
A. Hisay a sem comping, monrios.


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That's the way to test any sugar - that's the my miop you nill teen Caifrence Sugar

## Compare it

with nay other ugge-comprere tis pure, white sparkle-its even grain-its matchlesssweetness. Better still, get a 20 pound or roo pound bag at your grocer's and teat "St. Lawrence Suger" in your home.
the st, lawience sugar rehining co, umitem, montreal
sending the life-foree right down
where the pain was. "It'll asthma, pain was. it'ti cure your make these things look, wife and live right $\mid=$, you will just breathe am truly thankful to you for too. For many yearo this sister has the tailor for in me." ". They thant suffered a great deal from sister has the tailor for giving them thank shered a great deal from asthma. They thank the man in the car whe She ought not to have had it at all, for she has lived on the farm all her life, where the air is pure and pure
food can be had in plenty food can be had in plenty; but she from almost died a number of times rom this terrible disease.
But if she would just hold her appe tite in chock, quit strong tea and coffee, live simply, breathe deeply and stop worrying, it would not be long before she would be well again. The secret of itp
Well, nature is the greatest an grandeat physician in all the world. So faithful and so patient, tool Fight her for years and just the minute she gots a chance, she will oome right back and help you out of the tight
place. place.
Why
Why is it that we get well when we call the doctor? Stop and think about with the doctors. Most of the quarrel blessing to society. But what do they do? Just help nature a bit. All they can possibly do is to put their hand little the arms the right time. They lit this. When you ean. They know hearts, they will tell you so, too. And what they do is to put us to led Where we will rest, take away the us something to elear eating, give waste that is clo clear out the dead Waste that is clogging our bodies and she does it she does it, if she has a bit of chance.
We lie still and rest. We tale the lightest of food, and little of that We hold still for the sewers of our less we have transgressed too and untoo much, we get well too long and story, and we may all prove it to be true if we will.

## Try This Just Once

## By J. H. Haynes

Praise your wife Give her a little encouragement. It will do her good and yet not cost you much. She has fortable, your hearth bright and comfortable, your hearth bright and thin-
ing, your food agreealle. For goodness sakel tell her you thank ber for these efforts to make you happy, if you do nothing more! Of course, she does not expect this. Surprise her for once. It will make her smiles brighter than they have been for years, and it will do her good and you, too. thirsting are many women to-day guage of encouragement praise, the lanwife among this nament. Is your summer heat and winter Through wives have drudged winter cold these and so used to their uncomplainingly have their to their monotonous labors lave their husbands become that they rising upon them as they do the daily rising and setting of the sun. Are HOMRLINBES clohtryed
Homely, every-day life may be made beautiful by an appreciation of its homeliness. You fnow that if the foor is clean, her labor made it so. You know that if you take from the drawer a olean shirt whenever you wish to, that somebody's fingers have ached in the toil of washing it. Were they your wife's? Everything that pleases the eye and the sensea has been produced by constant labor, much thought and untiring elforts both Lodily and mentally. it is not things and feel not apprecrate these for the numberless glow of gratitude for the numberless attentions beetowed upon them in sickness and in health, but are so selfish and thoughtless that they do not acknowledge it. They do not come out with a hearty
gives them a seat. They gr young lady in the concert-ro-m kindly recognition. In shor thank everybody and everythin of doors, because it is a custom. T they come home, tip their chairs bae newspaper, grumble if their wir hem to care for the baby, and and be the fire is out. Should everzthing be just right, they keep their mouth hut in apparent satisfaction bin yover say, Wife, 1 thank you: of that kind
TREAT THEM LTER THE REBT
We say to you, husbands, show but an ordinary civility, ing. common articles of housultepp them only a hundredth would compliments a hundredth part of compliments you bestowed upon them before you were married, if you cean to speak of their faults Lefore others lewer women would seek other sources of happiness than your "uther ish ${ }^{\text {P }}$ affection.
Praise your wife, then, for all her good qualities; give her a word of encouragement, now and then, you may rest assured that her deficiencies are fully counterbalanieed by your own.-Farm and Fireside.

## Burden Bearing

An aged, weary looking with a heavy basket upon her entered the train at one of the ar stations. Carrying her burden
some difficulty down the fome difficulty down the aisle, possession. Insteat of which she possession. Instead of placing burden upon the floor or upon the shifting its she continued to bold one knee to the other. A workin man across the aisle watched herm some time in silence, but at hest fo he could stand it no longer hes whe over and touched the womn reache the arm. "Madam," he said, "if yo will set your basket he said will carry both it and you, the trail How much of tuma you. in this little incident ! nature there is in this little incident! Some peopl. which circumstance their burden" We theirs. They ce has decreed shal be theirs. They insist on carrying lay it when they might temporan bay it down and ease their breaking
back. backs.
"I believe God intends we shall for get our troubles once in a while,' her share of heartach had more that always wore a cheerful smilese face the only way I cheerful smile ply must forget my atong. I sim. it's must forget my worries even it had no greater wisdom than this. Rest your burden once in a while When you pick it up agnin youlle find that you can carry it easier. If may not be any lighter, but it will

## Valuable Homely Hints

A half-tablespoonful or so of vins meat put in the pan with stewing meat will make the toughest ment tender.
An alarm clock "set" to the minute when a joint, etc., placed in the oren will be cooked saves the cook a lot of worry.
A little vinegar put in the frying pan and thes boiled up on the store removes the odor of fish or onions from the utensil.
Hand-knitted stookings and socks vill last longer if a strand of silt is knitted into the toes and heels slong with the wool.

## Well; Well!

THIS is a HOME DYE


1 dyed ALL these DIFFERENT KINDS of Goods I used


OLEAN and SIMPLE to Use.
 Whert Freve Color Card and sTORY Boostet 1 .

## Quality Butter

That's the kind you make with Maxwell's


Maxwally "Pawarite" to meed all over tho world -in Denmari, the butror cosanty of high tarifts-and tn erery Ssction of Gori. Inspectors recommand fil, because it is the finest butter-makere to the world. Write for catalogne if rour dealer does DAVID Marwhat A.

## CANADIAN <br> , HOMESEEKERS' excursions

Manitohn, Sashatchuman, Milierta APRIL 2, 18, 80 UAY 14, 28 JUNE 11, 25
 Secoad alas tichry form Ontario atations to principal
LOW ROUND-TRIP RATES
 sod to feturs within 60 days trous going dale. TOURIST SLEEPING CARS
 woused et finderste eviped with bedisos. eas Early applleation must bo made. ABK FOn MOMEsEGKEnS' PAMPHLET Aaply to
MURP avoren C.P.R. Aumat a OMLY DIREOT UIIE wo chanae of cant

## Reducing House Cleaning Toil

## By Grace Dutcher

At this season, the spring nightmare looms before the house-maker 1 refer to house cleaning. The fol lowing conversation took place between two ladies:
"Don't you dread the awful house cleaning coming ?
"No," replied the other, "not nearour carpets ware out to. You see as floors, or put down hard wood floors and have a rug in the centre, and house cleaning is not half the work it used to be, when we had to take,
out tacks, roll up dusty carpets, spread them on the lines and prop them up with a stick every time the wind blew them down, beat them clean and then get down on both kneess and thack and stretch them into place Then with co rags or squares, we pu one out on the line to let the wind
blow through it, every month, and it keeps our house fairly clean all the year round

## A King's Look

A courtier, it is said, once ap mischievous tale concerning with mon acquaintanoe, but it was an ex. periment which he never repeated The great king neither spoke nor smiled.
"And he gave me such a look," the man declared afterwards, "as was like to make the story go straight down my throat again.
That was a truly royal way to treat a tale-Learer. One who seeks to at tract attention to himself by trifling with the reputation of another is the most cowardly kind of a thief, and should find no market for his stolen goods. He needs no encouragement and deserves no countenance-but
stern and forbidding one. By showing plainly that we neither sym pathize with, nor enjoy, his story we give so much the less currency to what may do uncalculated harm. And if the tale goes the way it came down the throat again, as the that it will not attempt the journey out a seoond time.

In advising the use of hot water a medical writer says the advantage of it is that when taken a half-hour before meals it draws the blood to the stomach and stirs it to activity. With many people it seems to work like a charm. It is good for the inactive and the dyspeptic.


Mock Minor Piss.-One oup each of bread crumbs, hot water, chopped raisins, sugar and mnlasses; half cup, each, of vinegar and boiled cider a tablespoonful of butter and one teaspoonful each of cinnamon and cloves Scald together and bake with two orusts.

## whitr fruit cakg

1 cup butter, $11 / 4$ cups white sugar 1 cup sweet milk, $2 \%$ cups flour, large teaspoonfuls baking powder whites of $7 \mathrm{eggs}, 1 \mathrm{lb}$. raisins, 1 lb figs, 1 lb . dates, 1 ll . blanched almonds, $1 / \mathrm{lb}$. citron peel. Oream the butter and sugar together, add milk gradually, then flour and baking powder. Fold in whites of eggs (beaten stiff), add the fruit. Bake in moderate oven. - R.L.


WA1ST, 7370
The blonse that
known as the
bosom effeot, is one of the very model is an ex ceedingly emart one, absolutely adapted to many uses.
For the medium size will be re quired $23-8$ yard $\begin{array}{ll}\text { of material } \\ 13 & 37 \\ 13 & \text { yarda } \\ 36\end{array}$ $13-8$ yards 44 in Thes wide with stook collar and

$$
1
$$ nder sleeves, 34 yards of lace edging

This pattern is cut in siree from 34 48 inches bust. The six gored
shirt is one of the
best beat liked of the
season, and this one ean be treated in ways. In the large view it is shown baok gores stitehed to give a box plal effeot, and in the
small view the edges at front and back are eimply
joined. Both effect日 joined. Both effects
are correct and
649 Design for Embroldering a Wrist Bag. including Outine of Bag.

For the medium sine will be reguired 6 yards of material 27,514 yards 36 or 44 inchen wide when material has figure or nap, inches wide yards 27. 4 yarda 36,3 yards 44 itches wide when it has neither figure nor rap; width of ekirt at lower edge $23-8$ and 39 inch waist cut in sixee $28,24.26,88$ waigt measure.


SEMI-PRINCESSE
$60 \mathrm{WN}, 7388$
Such a semi-prinoesse gown as this one can be made from linen, taffeta, mesealine, foulham and the like gingequal suecess with lines are Amart and the gown is in every way attractive.
For esign for Embroidering Doylies

-
$\qquad$ $\square$


> Two transfers are given.



For the medium size
will be required 71.2
yards of materinl yards of material 27,5
yards $36,43-4$ yands yards 36,43 yands 44
inches wide with 1 yard 18 for the yoke and
under slecves under siecves. The
width of the skirt at the lower edge is $21-4$ yards.
Thes $34,36,38$ pattern is out in siges $34,36,38,40$ and
42 inchen bust measure.

## THE ENGINE THAT COSTS NOTHING TO RUN




## Canadian Airmotor


ONTARIO WIND ENGINE
AND PUMP CO., LIMITED
Wimitipes Toronto Calgay
CALVES natar тimb imphour mick Make Your Own Tiie


Cost
$\$ 4.00$
to
$\$ 6.00$
per
1,000
Hiand
or
Power
Wrrite
tor cat
alogue.
Farmer'sCement Tile Machine Company

##  <br> \section*{-IT IS EASY TO BUY}


hoice young boars. fit for nervice HAMPSHIRE monthen ant beadery. Rows, three fromehill. Ont
CLYDESDALES. ImD 日tallione and Fil. lies. Fresh Importatione always J. Every mare quaranteed is foal
J. J. Aample wiverton. Ont., and
Laverne, Minn. U. B .
$\qquad$ more contidence in themac's.ad stock hai aave A year ago thoy scemed diffdent
and event bashfut about announcimg to the
crowd special point of enellimer crowd apecial points of exoellence to thon year most of the breeders did not hexitate,
when they were holding a particularly
good animal. to announee rowd. The buyers appreeta fact to th
this inform his information, and it helped

## 



The surcess of the RELEVTIE SAL.E nignment sale held in Belleville Arril 3 and 4 under the aussioss of the Belleville
District Holstein Broeders' Club, a report
Jamieson, of Battersea, have purchaked from Hayward Resley, have purvhased
fancy flgin, at a
figure, a Holstein bull, a brother of the cow, owned by W., C. Stevens, of
Philipeville, which beat the world's recor as a milk producer, which died April rth
This bull is a son of the cow, Jewel Priness Pot, which G. A. Gilroy, of Glen

DETAILS OE THE BELLEVILIE SEAE which appeared in the April Itth report Farm and Dairy, was such as to indi-
ate that this sale is likely to erow in fmartance year b: year. As compared with
the first sale held a year ago, several im-
 but much of the rest of the took form
ras in ont ordinar. stable condition. A
he recent sale possibly 80 per cent at recent sale possibly 80 ser cent of
stoek was brought out in splendid splendi scese of


was the fact that a young jolicoman wh
was in charge micht as well have been
was in charge micht as well have been
the North Pole for an: grod be was.

Buyers Attracted
Before the sale it was feared that the large number of animals to be offered
would result in many ani would result in many animals being
sacrificed. While unter certain eireum
ntances this might. prove it was not the case this to be the ease from Weatern Canada were attracted by o be sold. Their areenence preventel the animals from being sacrinced.
An enjoyable feature of the sale wan the members of the olub and their friend by the Bellerille Board of Trade. Thin hanouet war held in the Hotel Quinte, one
of the beet hotels in the provinee, and wan of the best hotels in the provinee, and was
high-olass in every respect An exeellent high-class in every respect. An exeellent
musicat prozramme was renderid minsical prozramme was renderve. Veras
of popular soags, neatly printed, were cir. culated among the suests, who were re-
peatedly ealled phon to Deatedly ealled uson to participate in the
vinging. Among the sovaliers were: Mr. Hailey, Assistant Deputy Minister of Agri
culture. Toronto cuiture, Toronth: Mr, G. Q. Publow, King
ston: Colonel Ponton, Belleville, Foster, Bloomfeld: F, R. Mallory, Frank loeal Ayrnhire Brueders' Olub, who of the one of the best apecehes of the who made The Sales and Buyers the buyers were as follows, not including the
hose mentioned in the last report. Consigned by A. D. Foster, Bloomficta Caskey
Starlight Mereedes Posch. 8175. T Futchison. Cavan

## Drury, Cowle Burke DeKol \$1k

 Panline Agnes DeKol Pietertje, $8160, \mathbf{G}$.Murton. Portamouth Molly Keyes Portamouth Molly Keyes 3rd, \$155, H. B. Logan, Now Hengaster, BC Hengerfeld Eeho DoKol 2nd, 8155, W. H
shields Mt. Pleamant Consigned by Garant
Konsigned by G. W. Anderson. Rossmore
Elder Triumsh, $\$ 220$

Todd, Oorinth, SOINE-Write John W
 Eris Ont. Bridal Rose Mercena, \&185, G. P. Merton. Bridal Inka Meroena, 8180, H. Smlth. Winnipeg.
Prine ar Dixie Song, \$180, Jaa, R. An-
derron, Mountain View, Eeho Pauline Mercena, 8175, H. Smith.

| also 8.O.W. Lerhornis. Young elock for alion 8.O. sale at any time.-J. MeKenmie, Willow Asle nitarin | Eris Ont. <br> Bridal Rose Mercena, *10s, G. <br> Portsmouth |
| :---: | :---: |
| CLYDESDALES-Home of Aame. (Imp) | Bridal Inka Mereenn, 8880, H |
| Holoteing-Home of Kise Payne Sopita |  |
| per "eek. ${ }^{\text {and }}$ | Prine Ax Dixie Song, 8180, |
| Ler, Ont., Myrile 0.P.B. P. | Echo Pauline Mercena, | Mandu Inka Mercena, sivo, \& B . Manchester:

Mercona Henjurveld Meria. sim p ron, Kingstion
Velatra $\qquad$
Bay Oentre
Mollie Keyes Countens, 8160, n
Veletra Triumph Edler, $\$ 15$
Wilmot, Erio Duchess Hengerve
Korn Inka Mercena, \$153, Q. H
Erie.
Consigned by W. Emburs
Consigned by W. Embury
Lady Princess Mcersena, 8200 . If
Irene Lassie, 8175, H. Vellows, Vil Trene Lassie, 8175, H. Vellows, Vellow,
Ruby Beant, 8175 , Jow Kilgore, Kgly
ton. Duc
Smitl
Consigned by B. R. Leavans, Bloomseld
Bibby Kegen, $\$ 265$, Bdward Nelaon

## Ottile Hengerveld, 8230, Jos, K Segis Una Korndyke, $\$ 175$,

 DrewUna
son, son, Agincour
Pontiac Har

## Consig

Rhoda Butter Girl, 8205 , Frankin May Countess Blossom, 8170, B Oshotic

## Rossmare.

MR. THOS, HARTLEY'S HOLSYEISS

## stein coltumns, Mareh it, and Dairy lly

 weekly now in Farm and Dairy, Mr. ThenHartley, Downsview, Hartley, Downsview, will gell a: publin
auction, at his farm, on May 2 rid, auction, at his farm, on May 23rd, hy
entire herd of Holstefns. Several weib
ago one of the editors of Tom ago one of the editors of Warm and Daing

visited Mr. Hartley and insoected stook, all of which he found to be in the | pin |
| :--- |
| Ha |

## tr

MARKET

## 

Fronta, Monday, April outher has lad a most Of of the Titanie has ha deproseing trade on loca it it diverted men's and the volume of Dand of the most difficul
is that of securing a pot la that of securing a
Nuch of the stook o Much of the stook o
of alfalfa, elover, ete he of alfalfa, elover, ete
Nan orderod Oreater difm aperienoed in getting mangle neod. "First oom
the plan the weed meroh the plam
stan.
Tinisat out farmers' marts ove remained practioatly
malng up of the dairy ex mogyanied by slight d
Hogn are up above
WHEAT A boom at Chioago in thent a week nent wheat pricee armal level on the other
inlators are atill active olators are atill active at Iome as quoted last me 1411: No. 2, 81.111 .2 : upor demand for four hand for fall whe Billess are pay

## since decided on the latter stock, he

 has announced the sale to come off Hu$\mathrm{3rd}$. at the time of cheas railroads. The character of the on the and the splendid individuality in the following individuals, will come lone distances to this sale.

## The offering will to this sale.

## 60 of these are females, to of head.

 cows in milk, and having attractive cords, nearly all in R.OM. the remainde both Rocord of Merit and Record if Pr formance tentsat whill be impossible for us to mention many good onse we noted in Mr Ilerlen) herd. Not oftun have we had thartleg tunity of seeing so many grood ones one atable as are to be found at Mr. Ha big kind, having large, square, deep a aneed udders, and giving every widen of being producers as indeed their
cords prove them to be. sords Drove them to be,
d tu na beine that especially attrac this hord, was Tempent Clothilde Mercender No. 5327 . In yearly test this grand en made $18,447 \mathrm{tbs}$ of mills in 365 daye Th
millk sold in Toronto
fill tual cash return of $\$ 303$. Had it been thin current year at the high prices ruling
this milk would have brought consides ably more. "Tempest", made this recorl igg again the firat of Suly and fresten year following. This cows is not as bir As many cows, but she looks every int most attractively good udder. with fis large teats. She comes of hightenting oent butter fat and she herself having made 750 Tha of butter in a year
Jewel Cornelia Poseh, 11,860 , a
hear-old, hay given to freshen when the reari then over 14,000 Thes. of milk she made 12.9 the buttor adverse conditionic Daisy Quirk, 11,190, eave 10.009 Hlw for the Jear, thating inve 10.009 lbe milh averape, she being an unueually hiph tert she commenced her teat at two yeen of age.

## MARKET REVIEW AND FORECAST

 Tonota Monady, Aprit 22--summerlike on wholesale business generally. The of the Titanio has had an fntuence doprueing trade on local exochanges in it diverted men'e minds from buai-
Demand from the west is opening a Damand from the west is opening
Dind the volume of traje will be a and the vol

## ard breaker.

(hee of the most diffieult problems to et is that of eecuring a supply of good of alfaifa, elover, ote., has already an orderod Greater difficulty salil will esperiencod in getting a good supply mangle no "First come, nrst nerved." ab.
Thua on farmers' marketa this week olv remained practioally seady. The Coompanied by alight deolines in thene Hogs are up abore the 88 mark (Hogs are up abore
A boom at Chicago in the early part of weak wat whiat price away above a prrmalors are stlll active there, and work. isf for higher prices. Prioes locally are Gs for higher pricea. Prioes locally are
Ci mame no quoted last week and the level inding is alighty nbove an export
 haitobas feed wheat, 3 me to 755. A atrong evor demand for flour hae etrengthened Gillen are paying at high as $\$ 1.01$ for gnatio wheat.
Priees continue gerains
Puted that the opening of lake navigation fithin the next fow days will ease the truation so far as feeding stuffe are con-
brned. Quotations are as follows: Barley. polting, 90 c to 9 Me ; feed, 65 e to 70 e ; oate. eW., No. 2. Ste; extra No. 1, B2e; No. 1
fed. ©So: Ontario oats, No. $2,45 \mathrm{c}$ to 49 c yutide sle to ske here: No . 3 , to leas: Fra, Wic to 90120 ; peaf, 81.20 to 81.25 ; Jockrbeat, ${ }^{73 \mathrm{c}}$ to 7 ke . At Montreal quo-
Gtions are:
Barley, malting, $\$ 1.05$ to $\$ 1.07$ :
 ed. 491.2c to 5000; No. 1 feed, 491.20 to 50 e ;
 orn. Be; peas, $81.65 \cdot$ to
theat. 760 to 750 see
SEEDS
Merchante are selling seed at the followng pricen: No i red elover, Government tandard, 816: No. 2, 815: timothy, No. 1 , 19.50 to 810 : No. ${ }^{2}$, 88.50 to 89 ; alfalfa,
No. 1. $\$ 1250$ to 813 No. $\$ 12$ to $\$ 1250$; Saike, No. 1, 815 ; No. 2, 815.50 .
Dealers pay the following prioes
Draiers pay the following prioes to farm-
ins Red elover, No. 1, $\$ 1350$. No. 2,812,

 7.01 : No. 3, 85.45 .
potatoes and beans
Potato pricee have taken another jump. Consumers ask for the home-grown arlicle, but they are not to be had Old
Country potatoes still dominate the marCountry potateses still dominate the mar-
ket and at inereased prices. Wholesale puotations are as followe: Ontario pota10es on track here, 8175; out of store, Triak potatores. 8180 out of atore 8160 in car lote. The retail price is 8190 to 82 . As Kuarral Green Mountains are quoted at 8178 on traok and Euglith and Irish at $\$ 1.55$ to 81.60 .

EGGS AND POULTRY
Ege pricee continued arm in the face of ers bellieve that money inverted in egge ers believe that money invested in egga
vill bring better value than when inveetef in meat Hence the demand is atrong. Wholesele dealers guote 32 c to 23 sefor now. labd eqge On One farmers' market the price la 250 to 230 At Montreal alno de-
fid keeps pace with supplv. New laid Ford are selling at country pointe at aso. DAIRY PRODUCE
The dairy aesson has now aetively comhet notas Cunada, and this week's marhat notes a deoline of 20 in both dairy nad creamery butter. Moot of the creameriee in eastern townehipe are in active
operation, and larger supplies are comoperation, and larger supplies are comin the United Statoe is also having ita influence. Quotations are as followe: Dairy prints, 29 to to 300 are areamery follows:
 for twins: large at is quoted at 17.1 e 10

160 to 16140 .
Heoeipte LIVE STOCK have been much more liberal this week thas last, whlch would seem to indicate that country roads are improving. In consequence of larger deliveries, prices are not so strour this week. The weakest demand is for the very heavy stuff. Prioes are so high that export cables do not not expeoted gation by the 8t Lawrence route of navimuch influence on cattle prives will have Choise butcher cattle prices this year $\$ 6.85$, but the bulk of trave sold up to from 86.40 to 86.75 , med. to 8550 to 86 , buteher cattle good graden $\$ 3.25$ to $\$ 6$ and butehere bulls, 83.50 to $\$ 6.25$; ehoioe export cattle range from 87 to 87.36 ; feeders, 83.50 to 85.25 ; Btookers, 83.25 to 85.10 ; canners, 82.25 to 83.25 ; calven, 84 to 88.
Mileh cowa
$\$ 50$ to 860 for ehoiees 8 fair demand at to $\$ 45$ and springers, $\$ 40$ to $\$ 60$.
The demand for lambs is grood at 87 89.50 for yearlings: spring lambe, $\$ 3$ to 87.50 each; ewos, $\$ 5$ to $\$ 7.50$ and bucks, 84 to 85.
Hoge are quoted at 88.15 to 88.20 f.o.b. country pointe. This is the highest price that hae ruled for some months, and even at these fgures packers eannot get enough of them.
At Montreal supplies of cattle have been limited and values itteadily maintained Buying is conflned Largely to local butehers. Choice steerl sell ht 87.15 to 87.25 : good, $\$ 6.75$ to 87 nad from that down to 84.25 ; cows, 84.50 to 86 ; bulle, 84.50 to 86.50. There is a fair demand for sheep. with ewes at 85 to 85.25 ; bucke and culle, $\$ 4.50$ to 84.75 ; yearling lambs, 87.25 to 87.50 ; spring lambs, 87 to 80 . Calves are
from 81.50 to 88 . Fom 81.50 to 88.

MONTREAL HOG MARKET
Montreal, Baturday, April 30--The strong feeling which has characterized the mar. ket here for live bogs during the past month etifl continues to be the main fesi another advance over those ourrent is week ago, with every indieation of them going still higher in the near future owing to the increasing scareity of supplies throughout the eountry. Selected lota weighed off cars sold as hirch as 89.40.
There was an adyance of 500 Where was an advance of 500 a ewt. in drossed hogs, and aales of fresh killed abbatoir stook Were made at 81275 to 815 .
MONTREAL CHEESE AND BUTTER MONTREAL CHEESE AND BUTTER Montreal, Saturdav, April 20.-The new season is fairly well started with several cheese boards in the country, all havins weekly saies. The prives paid this week
ranged from 121.40 to 131.20 , the high price being paid at Brockville and the price being paid at Brockville and th white cheese at Kingstom. The market is still in an unsettled state owing to the small guantity offering and the laok of shipping facilities, but next wreek lack of offering will be made on the different boards, and the good will arrive in time for shipment on the first boat, end we look for a greater demand from Great Britain with steadier pricea. The market Is fairly firm on old cheese, but dealers are looking for low pricet on new goods, as the make in England is very large, the season being two to three weeks ahead of last year
The market for butter is deelining ateadily and has dropped down to 870 , which is Euatern Townahips eroamery for finest
Reoeipta for the week aggregated almost 5,000 packages, and this fe rather more than can be absorbed by the looal trade fugt now. Still lower prices are looked for next. week, unless there should be a demand from the west more than equal to the surplus over and above the looal reguirements.
In a recent letter to Farm and Dairy, Mr. R. R. Ness, of Howiok, Que., makes the following mention of the Ayrahire cattle that he has just imported from Sootland "We have landed at 8 s . Johns, 54 head of the best Ayrshiren that 1 have ever im: ported. We intend selling them off by anotion at our great Ormstown show which will be held June 5,6 and 7 . We will send you fuller information reganding our offerings at this sale in a shor

## Holsteins

Cows and young stock of the choicest Holstein blood available I have in my stables at THE MANOR FARM


Several years of breeding have placed me in position to offer you Holsteins of superior breeding and good individuality. I have 100 Holsteins from which you can make your choice.

You are invited to visit my farm and see my cattle.

Just now I have some choice young stuff from

## Prince Hengerveld of the Pontiacs

This stuff is priced reasonable. Come and see it. Manor Farm is four miles from C.P.R. Crossing, North Toronto. Take Metropolitan cars out to farm.

## Visiting Breeders Always Welcome

## THE MANOR FARM <br> GORDON S. GOODERHAM, Proprietor

Bedford Park

## Horses for Quick Sale

WX ${ }^{\text {E }}$ have sold our farm and must move to a new location. We have a few good Clydesdale Stallions left which we will sell at reduced prices. These are Grandsons of Baron's Pride and include "Time Keeper" a 3 -year-old, 3 rd at Guelph Winter Fair; "King of Diamonds" 3 years old by "Everlasting" the greatest son of Baron's nant" a 3-year-old by Mamilius, a son Pride; and "Predomi Baron's Pride.

Also have "Rose Victor" a three-year-old by Hiawatha; 'Baron Elator" ( 6 years old) Canadian Bred, 1st and Champion at Guelph Winter Fair a year ago this last winter in Canadian class ; "Milton's Last" 4 years old, a son of Baron's Pride; "Sir Albert" ( 5 years old) an imported horse of great size and quality; and "Edward Darnley" by Royal Edward. This horse weighs a roo lbs. aud was 3rd at Guelph in aged class. Was imported last fall.

## Two Hackneys

mWe will sell one of the following-your choice"Terrington Narcissus," ist at Ottawa this last winter, and "Terrington Semaphore," Champion Priced low. They will be shown at the Horse Show, Toronto Armories, April 30, May it to 4. One of these- the one you do not take-will stand for service at our barns this season.

Take advantage of cheap rates to Toronto and see our offering. Our barns are but a short way out on electric cas from North Toronto.

GRAHAM, RENFREW CO. BedfordiPark

Ontario

N.B.

Intios ond an my naroume buls, I am now going to offer
the young son of Dinone's and
Dam of Lulu Keyes. Lulu, the Dam of Lulu Keyes. and well formed. Prioe stus.

## E. B. MALLORY

 Holatein Friesisn Aseo., Box 148 Bettleboro V
GREATEST VIEW HOLSTEIN HERD As I have sold all my yearling bulle, I
am offering my spring crop of Bull Calves, am offering my spring crop of Bull Calves,
aired by Cora Dekol Pietertje's Count, halfaired by Cora Dekol Pietertje's Count, half-
brother May Eobo, the champion R. O. P. cow with nearly $24,000 \mathrm{lbs}$ milk and 1,050
ibe. butter in 1 year, from large produolng
dame. Prioes moderate. For particulars, dama Pr archibald parks, napanee, ont.

RPENIMSULA FARM Holstecin Bulh, hit for service,
from R.O.M. and RO.P, cowe.
are about two-thirds black and These bullis are about two-thirds black and
all are grood ones. Will sell reasonable to
make room for make room for the young stook this epring.
H. F. PATTERSON. ALFORD JCT. ONT Bell 'Phone on Farm.

## Holsteins



## MISCELLANEOUS

merton lodge

## TAMWORTHS

##   <br> AVONDALE FARM HOLSTEINS

Arthur C. Hardy, Prop.

| Johanne Colanths Gladi, being a yr aon of Oolantha Johanna Lad and P tiac Korndyke, and from a is ib. thre year-old dam. <br> Also HORN DORBET BHEBP and YOR SHIRE PIOB <br> Addrese all sorreepondenee to <br> H. LORNE LOGAN, Manager |
| :---: |

## HOLSTEINS


 GORDOK H. MAKHARD, Manhard, On
FOREST RIDGE HOLSTEINS


sale. Write us for


## Holstein Heifers for Sale


 GEORGE HARrISON. KIXCARDINE, ont

## H. F. BULL FOR SALE


 A. A. PAREWELL, oshawa, ont.

LYNDALE HOLSTEINS
 Present Offering. Young
Bull, fit for service. His dam sire's dam and grand dam in 7 days.

## brown beos.

## LAKEVIEW HOLSTEINS

Bull Caives, sired by Dutchland Ool antha sir Mona, and out of helfers sir
by Count Hengerveld Fayne DeKol.

## E. F. OSLER

BRONTE
ONT.
Ourvilla Holstein Herd
 Sir abbeherik.
EDMUND LAIDLAW \& SONS, ELGIN COUNTY, AYLMER WEST - ONT.
RIVERVIEW HERD

 broeding, ail
make form.
p. J. BALLE P. J. BALLET

STUMPING POWDER DEMONSTRATIONS
Demonstrations ehowing Dtumping Powders on the farm of OX L Seld at the following placees:
At At London, Ont., Tuesday, April soth, at
1 D.m., on Farmers Adveate Farm: Cains
ville, Ont. Wedneday Mast Pat

 ines, Ont. Saturday, May; 4th, Cathar- 10.30
a.m., on St. David's Wine Growers Farm:
Burling

GOOD Horses going at a bargain
On Friday of last week one of the editora
of Farm and Dairy oallied at the barns of
the Graham, Rentrew Ca the Gramam, Rentrew Co. north of To.
ronto, at Bediford Par ronto, at Bedford Park, Ont., and inspe
ed the horseg they have on hand.
of the of the large importation mande hand fall,
fow rail good ones are left awaiting bay
ery ers. Mr. Robt. Graham is absent in the
west on a judging tour at the western
epri wat on a judging tour at the western
epring horse thows Mr. Renfrow show-
ed us over the or the olycieddale ntallions from the im
portation of laat fall we notioed Vortation of last fall we notioed Rose
Vietor. This is a flashy $\begin{aligned} & \text { syearold, extra } \\ & \text { big and }\end{aligned}$ big and remarkably vood in his under
pinning. He is a heavy bodied horse, being well muesled and earries pleasing lines pasterns and obliquity of shoulder and
rump atl developed, level rump and croup so hard to get yet so
much sought after. He io a straight goer much sought after. He is a straight goer.
We were a Wiste verprised to fand this
herse in the etable, but possibly he be-
ine one of the be, ing one of the best he carried a longer
price than manv others which orice than many othors which bave been
sold. Now that Graham. Rentrew have
sold thir tarm prices to clear out the horses they have
pift eft, some one will be sure to take thic
horse soon. and will get a bargain. Reee Vietor is by Hiawatha, one of miotinad.
Another 3 year-old we notioed wan "Time
keeper." This horwe was Jri he in an attractive was 3rd at Guelph
hadividual. not as flashy as Rose Vietor. This hurs is a grandese of Barone Pride as is alko
"King of Diamonds," another 3 syearold and "Predominant," also 3 years old, thes
two being aloo in the ntables, and will We were very faviral ineone.
Baron Elator, the 6 -year old Canadian
bred, Lst and chumpion years ago. He is a splendid big horse and has lots of quality and will be a
money-maker for someon money maker for someone
Milton's last.
Milton's last, a 4 year-oid of Haron't
Pride; Bir Albert (Imp.), a five-year-old. srand big horse of quality, imported by he late Donald Ounn; and Edward Darnley, a horse weighing 2,100 lbe., are also For sale and may be seen at the stables.
Edward Darnley is the bisgest home Edward Darnley is the biggest horse the
Oraham, Renfrew Co. ever had. He got Graham, Renfrew Co. ever had. He got
Snd in aged clase at Guelph this past Snd in aged clase at Guelph thin p
winter. He is uired by Royal Edward. sold the mares, Bave two, have sold One of theee, Kirtsey Pergus,
grand-daughter of Baron's Pride, Baron Fergus, is a 3 -sear-old, and is mare of many, strong pointa, and will gets her at the price she carries.
One of the two hackney stallions, each 4 years old, Terrington Narapene (1et a
Ottawa) and Terrington Semaphore, cham pion at Ottawn Winter Fair, whichever one a buser prefers, is on the market at a very reasonable figure. They will be
shown next week at the Horne Show, both shown next week at the Horse
on the rein and in harness.
It will pay anyone, who hae use for take a trip to Toronto next offering to time of cheap rates to the Horse show and to out and inspeot this stock. The farm has
sacrifice on the hod prices are net at a ing to move, and as yet another location has not been selected by the Graham, Rentrew Oo.

## 2

 OATTLE TAas. Sheep and hogtags, metal ear labnhs wthowners
natne, address and numbers. Save aame, address and numbere Sives
name and trouble: avoid lonses
time
Write for treel time and trouble, avoid lonaes
Write forfreecirowlar nnd mmple
F, Q, James, Bowmaville, Ont

## AYRSHIRES

AYRSHIRES AND YORKSHIRES For sale-Hinh elaes Aymbires. ail aqu
inoluding Oalice and Bulls fit for semin
Fir

 Regiatered in name of purohaser. Apply,
Hon. W. OWENB, or to ROBERT SINTOn
Proprletor River side Farm - MONTERELLO

RAVENSDALE AYRSHIRES


April $25,19 \mathrm{ra}$.

Q.I.R ST. ARMAND, PHILLIPBaURE QUEy

## CHOICE



AYRSHIRES
som
formance work a speeialt
hhow ring and dairy tests.
Mholoe write at once
harch, considering quality Satisfactial
duaranteed. WHI
Trout Run Stock Farm, THORN,
Trout Run Stock Farm, Lynedoch, Ontarin
Long Distance 'Phone in House.
Burnside Ayrshires Winnors in the show ring and thity
uerta. Animale of both sexes. Imporat or Canndian bred, for sale.
Long tiatanoe phone in hot
R. R. NESE,
sowick. 01
THE SPRINGBANK HERD OF AYRSHIRE Cuntain more World's Champlon mill mu
tutter producers than any other lank America. A few cholce bull calves tra record breakind dams for salo at reaso able prices. Addres:

> S. TURNER a sON, Ryckman's Corners, Ryekman's

YORKSHIIRES
breeding not aki
Alos proved Bimm
Oows and iliter

## Calves. Jan. and Fob., 1912, plos of seree on hand

seree on hand.
Write or 'ph
ALEX BUME a co.,
Hoard'y Station, $0 . T \mathrm{~T}$. .
Neidpath Ayrshire Bulls A offer two particularly eholee Yeap
Bull, from $B$. of $P$. dams and grand-day
with high records, and by an don with high
W. W. BALLANTYNE Phone.

## Ayrshires <br>  <br>  <br> WOODDISEB BROS., Tanglewyld Fin ROTHRAY, ONTARTO <br> MISCELLANEOUS <br> THE CALEDONIA SPRINes HOTEL FARM <br> WANT TO BUY

Young Pigs, 6 weeki old and upwant
State Breed and Prioe.
ALSO WANTED, Ergs for Hatehimy Oeese, Ducks, Guinea Fow, Orpinglo
Langshans, Wyandottes, Reds, Rocks.

## Apply to

FRANK ALLEN ${ }^{\text {a }}$

Caledonia Springs Hotel CALEDONIA SPRINGS, oNTARI

OUR FARMERS

PRINCE EDWARD
Kivas Co
 cis io foci pork, ex. bu
 ONTARIO. mobarabor. Aprill 16. mpxared tast Water Beminer mell commid Toit mod nouse are at rexto pemd milch





\section*{5

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WELLINGTON co.
wowhard weather until the
The snow weather until the the, but th
Thard win tho ovitiog frmber deal The oring frember Nom con

## min

$\qquad$

## OUR FARMERS CLUB rreepondenes Invited

 KINas co., P. E. I
LOWER MONTAGUE, April e-April has rouftht the first aכpearance of apring. to and warm. Snow is going very fast.
 , priters Prees are going us: Hay, 816:



## ONTARIO.

## VICTORIA CO., ONT.

gosoayoEON, April 16. -The snow has
mapparred fast. diappeared fast. Water is high: a fow
nothouts Feed is soarce and very dear.
 7A rintered well, considering the high
hen of feod. Horses are selling well. Bo phe of foed. Horses are selling well. so - rise. Few eheep are kept, which *) haliburton co., ont.
KIMMOUNT, April ${ }^{15}$.-The warm rain and thundarstorm of the 14th freshened lings up, starting the arass. A few daye
vill mep plowing general. This has been a vill pe plowing general. This had been a
jor mason for ean. The run is about
There will be very litile maple over. There will be very litle maple lanough the winter well. Feed is plentitol There are a number of emall pigy
for sale at 85 a pair. Milleh cows are maroe 800 to $\$ 53$. Very few horsee are
offond for sale. Grass soeds of all sorts offend for sale. Grass seeds
are out of sight.- J.A.S.T.
wellivgton co., ont.
Fhages, April 15.-We have had vers hookard weather until the last few dass
The enow las gone, but the rouda are in The snow has gone, but the rouds are in
bad shape, as the froet is coming out. There was a good deal of damage done
by the apring freshet. Part of the railby the apring freshet. Part of the rail-
road bridase, seeven miles from here, was roarried away. The mall is being carried
br ptage until it is regnired. We have by trase untll it is regaired. We have
had very little rain until laest night. We had a heavy shower and the firat thunder
atorm of the ceason. Peed is getting storm of the season. Peed is getting
sarce and farmers are walting patientiy maree and farmers are walting patiently
for the grusis. Butter and egres still are bligh in priee, being toc and 200 roepe
ively. Hogs are on the rise-W. A.M. middlesex co., ont.
TEMPO, Agrit 16.-The enow has all dis appared. We had a great quantity lnat
vinter. Feed is holding out well. as everysody has been careful. The atnek all looks welL. Everything aaleable brings high prices the wheat is coming out in good
condition, and alrendy has a verdure of green. The nsual nuanber have pulled up stakies and flited to the north.west, the
land of promise. There is a fortune seem. land of promine. There is a fortune seem.
lingly waiting for all who go. Boorce have done well. who, in former years, left thene parts and started anew in the wert. -
J.E.O.
lambton co., ont
WYomivg, April 15-Feed is very ecarce . Farmers are ofrering thone what
have a litte hay $\$ 21$ a ton. Fall wheal io poor. It is killed out entirely over the
tile drains. It apperars that the tile got froven solid and the orop got drowned out. Cattle and sheop are very high and
warce. Hornes are bigh. but the supply marce. Horses are bigh, but the supply
io quite suflejent for the farm work, but good mares for breeding are not in the country. A very large number of young
treas will be planted this season. We ex peet that the peach crop will be a complete failure this year. No sugnr beets this year: too mueh work, Bees have win-
terod badly. Seeding began on the 11th but it has turned very wet sinee.-D. N. A. BRITISH COLUMBIA.
SEW WESTMINSTER DIST., B.C. cmbilWACK, April 11-Most farmere are nearly through ploughing. Some have
done eonsiderable needing: others have done considerable seeding; othens have
been a little baokward owing to their debeen a little baokward owing to their de-
siro to till the nofl more ensily by removsire to till the soil more ensity by remov-
ing the fow stumps that may be upon their lands. The tillers of the soil are
rather reating this year in comparison to rather resting this year in comparison to
other years, as large numbers of Orientother years, as large numbers of Orient
ald have leased many acres throughout ald have leased many acres throuthout
the valley for the erowing of potatoes. Potatoce are about 835 a ton; hay, 816 :
oate. S30; barley, 837 ; peas, 60c; eggs, 300 ; oate, s3: barley,
buather, 300 .-J. $\mathbf{0}$.
ontario crop raport Agrieultural conditions in Ontario are
summed us as follows from a bulletin by summed us as follows from a bulletin by
the Ontario Department of Agriculture: Fall Wheat and Clover: These crops have been protected by a heavy covering
snow and are not believed to have be snow and are not believed to have be
injured by the intense cold of winter Fruit Trees: There are a few reporte injury to peaches and other tender fruit trees on account of the very low tem peratures of January and February. A
number of apple trees have been split by the frost. Rabbits and miee are spit by the frost. Rabbits and mioe are rejort-
ad as doing considerable injury to young ed as doing cons:derable insury to young
fruit trees. fruit trees.
Live Stock
dive Stock: Notwithstanding the trying co ditions, the general condition of farm ant mals may be summarised as on the lean
side but healthy. Horses are in good side but healthy. Horses are in good
oondition. Other lines of cattle are scarce but in fair shape. Fodder Supplies: All kinds of fodder sup plies are low excent in some eastern coun-
tifs. All grains are scaree and high in value. Thethode. The bulletin will give in de tall quotations from practical farmers as to how they met the difficult situation of a lone and steadily cold winter, with short supplies of fodder. The outatanding feabriefly: dinposing of all unnecessary an mals early, feeding only what would eaten absolutely elean: freer use of th
cutter, eapecially for straw, of which only the very poorest was used for belding.
sawdust, leaves, eto, being mhstituted. sawdust, leaves, eto, being mubrtituted
fuller adoption of the corn erop, more partieularly an ensilage, which one co respondont describes as "the savation
those who had it"; larger utilization chaff for mixing with other fodders: pur chasing mill foeds and brewers grains
and cheap frosen whent from the north and
West.

MR. H. F. PATERSON'S HOLSTEINS Young men and would-be breeders way of enconragemperd afom the exper iences of Mr, H. F. Paterson, of Alford. Brant Co.. Ont. Three years ago Mr.
Paterson deeided that he had enough of grade eatsle and that be would atart in to breod pure breds on his "Peninaula
Farm." After aizing up the situation he oast his lot in favor of Holsteins, and atarted out to got them. He called a sale
and thereby sold off all his grades, then with a team. he drove for arades: then. daye through Oxford county, calling on
some of the breeders of that distriot some of the breeders of that district and
buying a few here and a few there as he eattle and prices appealed to him. He also viaited Mr. 8 Lemon, at Irn
den, and vureh sed some stock. den, and vurchased some stock. Bince found it 'o his advantage so to do, and now wit', his inerease he has an excellent herd, one that any breeder would be
proud to own and one that anyone will get considerable pleasure in going to inspoct.
Last week one of the editora of Farm and Dairy, whil. in Brant county, called came away dolighted with what he snw and learned of Mr. Paterson's suevess, and became more firmly convince at it aver wise." What pay others to "Co and do likevenient or show, as are to be found in many places, but he makes the best of them and utilizes his space to good ad vantage. Everything about the stable the floors and feed alleys are kept clean and nast. To anyone, on entering the stable, it is apparent that Mr . Patereon's cows reoeive care not usually given. The if they were to go to the showsard. We commentere to go to the showyard. We and asked Mr . Pateraon if he cleaned them daily and he replied in the affrmative. and gaid that os centa made one of the in his stable, this being 10 oenta for a curry -oomb and 15 oente for a brush-and then use them on the cattle daily. Although Mr. Paterson has been with Holsteins only three years he has some splendid individuals and a herd that in fairly uniform. Holstein breeders and many others will remember Mr. Patersot as a sucocsaful exhibitor at the Guelph Winter Fair Dairy Test a year ago and again last winter. Some of his better cows are: Blanche Kay, having a sevenday reeord of 25.4 ibs. butter, and a private


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INTERNATIONAL STOCK FOOD
will save you $\$ 7.00$ worth of Corn or Oats
Beonuse it promotes difention and assimilation and enables you to out dowa the grain ration $15 \%$ to $25 \%$ sad still tet better results. The saving WE WAST YOU TO FEED 100 LBS. AT OUR RISK

II It will net cost you a cent if you are not satisfied. See our dealer in your town or write us for particulars. Meation this paper and the stook you own and we will sead you a litho, size $16 \times 22$, of our three champion stallions.
INTERNATIONAL STOCK FOOD CO., Limited
TERONTO

## NEWVERMIFUGE Anything to Sell

| Guaranteed by the Farmers' Horse Rem-1 We want to hear from every reader of FARM AND DAIRY who has anything to |  |
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| caranteed to kill and bring from the |  |
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| ${ }^{\text {ns }}$ | IESTER, INCUBATOR. BOOKS, or ANY. |
| It is absolutely harmless and can be Eiv. THING that sou would like to exchange |  |
| (to maree in foal before the eight | for cash or for other articles of value |
| 隹 Practical horse owners have eqnal to yours? |  |
| ritten us Newwermifuge has removed | The small trader can conneet with por |
| between 500 and ${ }^{\text {a }}$ (rom a |  |
| from a single horse. An animal whose |  |
| stomach is full of worms oannot get fat rate is 98 CENTS AN INCH. Bargain |  |
|  |  |
| der to-day. Beware of imitations. 6 capsules. 81.25: 12 capsules, $\$ 2.00$ at 2 cents a word. Make out your advertisement and send it to-day to Farm |  |
|  |  |
| rmers' Horse Remedy Con wept. A |  |

# IHC Engines <br> Furnish Plenty of Power <br> - 180 

$\mathrm{W}^{\mathrm{BL}}=\mathbf{u c}$ need it badly. An engine with ten to twenty per cent of reserve power will often save enough to pay for itself, just by its capacity for carrying you safely through emergencies.

## IH C Gasoline Engines

are large for their rated power-they are designed to run as slowly as possible because that increases their durability. They are equipped with a speed changing mechanism which enables you to vary the speed at will. By changing the speed they can be mace to develop from the to twenty per cent over their rated power with little detriment to the
engine, and at a cost for extra fuel so slight that it will never be noticed engine, and at a cost for extra fuel so slight that it will never be noticed
on the bills for gasoline. As soon as the need for extra power is gone, on the bills for gasoline. As soon as the need
the engine should be slowed to normal speed.
When you buy a gasoline engine, buy one you can depend upon; one that has plenty of power, one that is built to operate at lowest
cost for fuel and maintenance. Buy an $1 \mathrm{H} \mathrm{C} \mathrm{engine-} 1$ to $50-\mathrm{H}$. P., vertical or horizontal, water-cooled or air-cooled, stationary, portable, or mounted on skids, $\begin{aligned} & \text { built to operate on gas, gasoline, kercaene, } \\ & \text { distillate, or alcohol } \\ & \text { Kerosene-gasoline tractors in all styles from } 12\end{aligned}$ to $45-\mathrm{H} . \mathrm{P}$. Sawing, pumping, spraying, grinding outfits, etc See the I H C local agent and get catalogues and information from him, or, drop a line to the nearest branch house.

## CANADIAN BRANCH HOUSES: <br> INTERNATIONAL HARVESTER COMPANY OF AMERICA



IHC Service Bureau The purpose of this Bureau is to furnish, free of charge to all. the
best information obtainable on beter farming. If you have any worithy



Junction, P.B.I., wrote us on February ${ }_{1}^{15}$ think
for stock Wernational Stock Food is g great thing It keepe our horsesi in fine condition: in fact, every.
 and pigs and find it agrees with them splendidy, and
the Poultry Food shown ituef in a very shor: time. Our hens have beep laying most of the miater. 1 cannot say too much for your food for all kinds of Y• por
 $\square$


## Economize

 on Milk for Calves and Make More MoneyRaise healthy, thrifty, vigorous You can do this by using cont.

## CALFINE

"The Stockman's Friend' Made in Canada
CALFINE is a Pure, Wholesome, Nutritious meat for calves. It is made in Canada, and you have no duty to pay.
Feeding directions sent on apply
Ask your dealer for Calfine. If he does not handle it, send us a money too the to any station in Ontario We pay the freight
CANADIAN CEREAL AND
MILLING CO., LIMITED
TORONTO, CANADA

## Redis Make Good for ant to Tell You

 Why.""My New Metal Has Made Me a Proud Man. It Permits a $\mathbf{1 0 0}$-Year Roof at Low Cost."

Sir, I tell you, I am a proud man. I have at last got the best roof ever made at a low price. My roof will last you for a whole century. You can put it on a wood framing. You can get it at about what you pay for wood roof. You can lay it. It will keep rain, lightning, fire, ice, snow and wind from harming your building. If you want a roof, I have the right roof."
"I Think Every Man Can See How a Roof Is the Big Point in a Barn."

I worked 50 years to make a cleanly, strong, sure When I started, it. I had barns mostly in mind. When I started, bush fire were common. Cedar shingles went up like truant from a single spark. Lightning burnt barns again and again. Leaky roofs rotted hay and produce by the ton-they let water rot the barn framework. Oshawa shingles stop this.

Thus, I became one of the first metal shingle $m$ the world. I aimed to make a roof that would save twenty times its cost by saving a lam frame and foundation, as well as the stuff put into the barn, risked represented thousands and thousands of dollars risked over a period of years under a poor roof."
"It Took Years for Me to Get the Design of My Metal Shingle Right."
in thought it was easy. It was hard. It was a big contract. I didn't dream of what any roof has to
stand. I thought about all a roof did was to stand. I thought about all a roof did was to let rain found I had about twenty-five problems to answer at found I had about twenty-five problems to answer at once in a single design.

My roof had to have 'give' in it, so it would stretch in the hot sun and shrink in zero weather. It had to be ice proof, or lodged thaw-water would gouge seams apart. It had to be smooth, or lodged dirt would rust it. It had to cover its own nails, or the roof would leak. My roof had to be layable by anyone.
'My work was, I had to design a shingle that couldn't be laid face-down, or sideways, or upside down, or crooked, or be marred int the laying, or be smashed on tie road between my factory and the place Where the roof was. 1 found my shingle needed vendilating places in it that would let air out but wouldn't let water in. It had to be wind proof. Yes, sir,
The PEDLAR PEOPLE
these things were all years.
"I started to make
spark-proof and make a proof roof it enter by getting one of the the st roof shingle design best made My roof has mere experience and skill years behind skill and han any roof design than any roof you can

I Had to Wait Fifty Years for My Last Big Point. This Was It."
My business was world-wide by this time. My shingles were selling in Australia, Japan, South Africa. Governments specified them for roofs. All this time I was getting my design right little by little. But, do what I could, I had been troubled by the metal in it. It seemed impossible to get a metal which might not rust. I had to take the bet a meta could get. I needed a strong, light, absolutely on-rusting metal. At last, I found a lint in Europe followed up this metal. At last 1 devised a nonThe sign, I moment put this metal into my shingle de roof your roof you can get from me at a low price."
"Why Do You Pay Me a Low Price? You Have My Big Sales to Help You."
My metal shingle is not trash. You can get trashy stuff at a cheaper price. (It will cost you thousands of dollars in produce.) Yet you can buy my shingle is kept low by big quality is kept high and its price you do not by big, steady sales all over the world. If treating your building right. Get a 100 -ye are, you are not or your building. It will save year Oshawa roof and save you thousands of dollars your building. worked hard to gros and harvest" in produce you

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