Issued Each Week-Only One Dollar A Year

VOL. XXXI.

NUMBER 20

# RURALHOME

PETERBORO, ONT.

MAY 16

1912.



IT IS A WISE FARMER WHO PLANTS A GOOD ACREAGE OF INDIAN CORN

Practical profitable experience has made Indian corn one of the most widely grown and most universally popular crops of the Ontario farmer. There's a reason. Indian corn produces more pounds of digestible food an acre than any other crop commonly grown. It is the surest crop in a dry season. It affords one an opportunity to clean the land of weeds and at the same time produce a profitable crop. Made into silage it affords a most palatable and succulent feed. For supplementing short pastures, corn silage is invaluable. Pro-

gressive dairy farmers do not hesitate to put one-quarter or even one-third of their arable land in corn. —Photo taken in large Co. One

DEVOTED TO
BETTER FARMING AND
GANADIAN GOUNTRY LIFE

# There Is Money For You

in the

## "SIMPLEX"

It Will Pay You To Have

# This Large Hand Separator



The favorite everywhere it goes. Note its beauty and heavy compact construction, with low-down, handy supply can only 3½ ft, from the floor.

-the new "Simplex," a most striking feature of which is that it is light running.

The 1,100-lb. size "Simplex," when at speed and skimming milk, takes no more power than the ordinary 500-lb. Hand Separator of other makes.

The new large capacity "Simplex" cuts the labor of skimming more than in two, because it turns easier than most other Hand Separators, regardless of capacity, and because it does the work in half the time.

The large capacity "Simplex" Cream Separators, like our other "Simplex" machines, are the very embodiment of simplicity.

All "Simplex" Separators have only two gears, have Self-Balancing Bowl.

All "Simplex" bearings are of the highest grade, same as are used in the best automobiles.

All "Simplex" Separators have the famous Link-Blade Skimming Device.

"Simplex" Cream Separators are noted for ease of cleaning, remarkably clean skimming, ease of running, durability—they last a life-time. Learn more about the "Simplex."

Write us for descriptive matter, giving the full informa-tion you want about this peer amongst Cream Separators.

# D. Derbyshire & C

Head Office and Works: BROCKVILLE, ONT. Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC. P. Q. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

## Prospects Are Bright

THE season, though late, has opened with a gratifying suddenness, and every indication is evident that all will be well

with the crops again this season.

There will be again the usual big demand for aupplies, mower rakes, spreaders, cultivators, harvesting machinery, etc., and paint roofing, and those many other things which farmers buy in June.

Get your share of the good business going amongst our 15,000 Dairy Farmers by being in Farm and Dairy weekly now with your advertisement. Be sure to Farm Machinery, out June 6th be in our next big number Farm Machinery,

## REALERRAGE CONTRACTOR OF THE PROPERTY OF THE P SELLING

To produce is easy, to sell is more difficult,—to sell at a good, fair profit is work at which we farmers may well learn to be more efficient. This Department of Farm and Dairy is conducted by a Sales Expert. Ask Ferm and Dairy Questions about your selling problems; answers will be given in this column. -----

### Making and Selling Butter

By Edward Dreier When we lived on the farm in orthern Wisconson mother used to Mother's butter was make butter. different than most butter. just the right taste. I was too young to know much about it then, but whenever I get home and get talking whenever I get home and get talking ''butter' with any of the neighbors they always hold mother's as the best they ever had. One thing I can remember though, and that is the spring house where the milk and churn was kept. That place was so clean and sweet that you could rub a clean white cloth on the walls or floor and you couldn't get so much as a smut mark on it. Perhaps that was one reason why the butter was

Mother used to take great pride in her butter and always had a steady market. In fact she couldn't supply all the people who wanted it. And mother got 10c more a pound than the mother got 10c more a pound than the market price. One customer paid her 40c a pound year after year, and butter sold then as low as 18c. When dad drove Dick and Dime to town some storekeeper would usually spot him before the ferry landed him on the town side of the river and would be at the ferry landing to buy the entire supply of good things he had from the farm. And I believe the credit will have to go to mother's but-ter. Dad never had to bring back any farm produce he took to town, but instead always brought his old leather wallet well filled with bills— then from somewhere down in tha the town side of the river and would then from somewhere down in then from somewhere down in the boxes of good things he brought from town he would bring out a couple of paper bags of candies sent to us youngsters by the storekeeper.

THERE'S A REASON There are more pure unalloyed, arge, juicy cuss words said about butthere are several kinds of butter, but the three principle kinds are good, bad and indifferent. There is more good than bad, but of the indifferent kind there is an enormous quantity. Butter causes a lot of trouble in homes and in business. The good wife gets some butter from her grocer or from some butter from her grocer or from the market and buys it in good faith. She puts it on the table and perhaps she has company for dinner. The butter is tried and there is little used. The good wife tries some and finds out that the butter is awful.

The next morning she sallies forth to visit the marketman and gives him the deuce for sending bad butter. in turn blames it onto the farmer the in turn blames it of course, who brought it in and that, of course, who brought it in and that, or course, is a mighty poor explanation. So the marketman loses a customer and he, in turn, refuses to buy any more butter from the farmer who sold him this particular lot, and there is a loss all

Make good butter. reason why you shouldn't. And when you make good butter, make better butter. Improve your product and make it better than any other. Back home we used to pay about five cent nome we used to pay about his cents more a pound for creamery butter than we did for "dairy" butter, 0se day we got some butter from og grocer that had any creamery butter "skinned a mile." We found out who made it and became a steady cutomer. Our custom brought other and those people made a small fortune every year out of their butter.

SUIT THE CUSTOMY'S

People who make butter sheald specialize. They should work to make butter that will sell to the customen and trade like mother's butter sell and trade like mother's butter all years ago. When butter is poor the maker certainty knows it. Day try to sell it even as cooking butter to to sell it even as cooking butter. Use it yourself. Make and sell all good butter. Get a reputation are good butter maker and you will fat that you can sell mostly any of fas farm produce without any special farm produce without any special.

And be clean. I have talked wit travellers who meet farmers everydand they tell me that some of the dairy arrangements they have se are something fierce. One man is his separator in an empty stall in its same stable with all his cattle. It seels his cream to Toronto. I dwin ask his name. These same men his told me that they have seen other cases almost as bad. No wonder the butter is had and indifferent. As solute cleanliness is necessary to make your butter. good butter

About packing butter. Make it the "sual "squares" if you can a get these paper packers used creameries. Have some made wi show when the butter was made WHY? JUST QUALITY

down in Libe There is a man ville, Illinois, who has a dairy fan I understand it is one of the best. not the best dairy farm in the wo A Scotchman by the name of Sw owns it. He has as fine a herd Jersey cattle as you would care see. Swift makes butter and lots it, but Swift cannot begin to supp his trade. He has orders amount to hundreds of pounds every we that he cannot fill. He serves t rich and poor alike. When his re-'ar customers are supplied it is come first served." And Swift And Swift bo up his own reputation with buts He doesn't advertise in the pape and magazines. He doesn't need for every customer he has is work more to him than a page display the big dailies of Chicago. His or ers advertise his butter.

There is no reason why partial shouldn't have your butter advertise shouldn't have your butter adversa
in the same way. Make good but
better than other people, and refered is bound to grow. Make so
butter so good that you can ak
higher price than is ordinarily all
for dairy butter. There is always market for better butter and there not enough of this better butter supply every one. Try it and wat your trade grow.

The Canadian Pacific Railway going to show the farmers of the We around.

The farmer who makes and sells the three prairie provinces they in the three prairie provinces they in the three prairie provinces they in the three should be mighty sure that the butter is of the good kind before he ever attempts to place it on the market. If it is bad, for goodness sake use it at home for something. Don't try to get rid of it to someone, thinking that you cannot afford to waste it. take it as notice to somewing.

Try to get rid of it to somewene, thinkmuch wheat, oats, root crops i
ing that you cannot afford to waste it,
forage as may be deemed need
will lose a customer, and the loss of
that customer may mean the loss of
others.

Issued Each Wee

Vol. XXXI.

How Different St K Strains of A HE whole quite limit

tioned: vis tiva, and the aleata. The co nsively in ma in which the cli ses plants of re violet in co he form of coil lfalfa grows wil Europe and Asi s been limited abit of growth ardy. The flow ods are in the

Alfalfa plants

nce, if plants own in the mid amon variety, xing of the two se with which ace explains th ent kinds of a s in their char or of flowers a Some of these net names have ass which is no he United Stat as imported sev om Europe and es. Besides t and lucerne of innesota, and t Ontario, each experiments co ited States. 1 e Grimm alfalfa ariegated alfalfa d most importa which can be ited States.

EXPERIMENTS Several series rieties and stra conducted in ntario Agricultu s, and another icular varietie ering at the pr eriment which 9, the results he at experiment. nd lucerne, 4 pl Canadian Varie

Extract from an other Fair at Guel



Vol. XXXI.

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FOR WEEK ENDING MAY 16, 1912

No ao

## A TALK ON HARDY STRAINS OF ALFALFA FOR ONTARIO\*

Professor, C. A. Zavitz, O. A. C., Guelph

## law Different Strains of Alfalfa Originated—Tests Prove a wide Variation in the Hardmess of Different g Strains of Alfalfa Under Our Conditions—Strains of Tried Merit Recommended by Prof. Zavitz.

HE whole number of species of alfalfa is quite limited. Only two need to be menicioned, viz., the common alfalfa, medicaga sitva, and the yellow flowered alfalfa, medicaga fixeta. The common alfalfa has been grown extessively in many of the countries of the world is which the climate is not too severe. It possess plants of an upright growth, flowers which are violet in color, and seed pods which are in the form of colis or spirals. The yellow flowered alfalfa grows wild in a number of the countries of Erope and Asia. Its use as a cultivated crop as been limited. The planta have a spreading shit of growth and are considered to be quite unity. The flowers are yellow in color, and the old are in the form of a creecent or a sickle.

### VARIEGATED ALFALFA

Alfalfa plants are naturally cross-fertilized; bree, if plants of the yellow flowered alfalfa are gown in the midst of or in near proximity to the samon variety, there is a natural crossing or suing of the two kinds of alfalfa. The apparent saw with which natural cross-fertilization takes like explains the reason for the existence of difcrest kinds of alfalfa plants that vary more or as in their characteristics, particularly in their give of flowers and in their evident hardiness.

Some of these hybrids which have received disnet names have been grouped into a general s which is now known as variegated alfalfa. he United States Department of Agriculture is imported several lots of variegated alfalfa m Europe and from Asia for experimental pures. Besides these, we have in America the and lucerne of commerce, the Grimm alfalfa of nnesota, and the Canadian Variegated alfalfa Ontario, each of which has made high records experiments conducted in Canada and in the ited States. It is probably safe to say that Grimm alfalfa of Minnesota and the Canadian ariegated alfalfa of Ontario are the two hardiest ed most important varieties of alfalfa, the seed which can be bought in Canada and in the ited States.

EXPENIENTS CONDUCTED AT THE O. A. C. Several series of experiments with different srieties and strains of alfalfa are at present beconducted in the experimental grounds at the sario Agricultural College. One series has frunning for seven years, another for four ar, and another for three years. As all of the sriedlar varieties and strains which we are constrict a the present time are included in the periment which was started in the spring of the present time are included in the spring of the present. In this experiment, 19 plots of ad lucerne, 4 plots of Grimm alfalfa and 2 plots of lucerne, 4 plots of Grimm alfalfa and 2 plots of and lucerne, 4 plots of Grimm alfalfa were included. The

average results of the different plots of each of these varieties show the following yields of hay per acre in each of the past two years:

	Number per acre					
Varieties	of	Plo	ta	per 1910	1911	Aver.
Sand Lucerne	+++	19		3.2	 2.3	2.75
Canadian Variegated Alfali	a	2	**	3.5	2.4	2-85

AVERAGE IS FIVE TONS AN ACRE

Owing to severe weather conditions, the yields of alfalfa hay were comparatively low in each of



### Doing Two Men's Work the Easiest Way

W. H. Millar, Lennox Co., Ont., who may be here seen on his sulky gang plow, believes in saving the time of a man and a horse when he can; especially in rush seasons of the year such as the present. In the background may be seen Frince Edward County

the two years, the average for the past 14 years being about five tons of hay an acre per annum at the Ontario Agricultural College. It will be seen that the three noted varieties of hardy affalfahave given very similar results. When we take into consideration the results of the variegated all fain both the United States and Canada, it will be seen that it has made an excellent record.

Another table is here presented which gives the detailed results of the different kinds of alfalfa obtained in the United States, of the three Canadian alfalfas, the exact sources of which are known, and of the one sample of alfalfa from South America.

ALFALFA OR LUCERNE, O. A. C., 1911

Country Peru U.S.	Peruvian	1910 2.6 3.6	per Acre 1911 .0 2.7
U.S.	Texas Utah Colorado	2.1 2.6 2.1	.5 .6 .4
U.S. Special	Variegated, Kansas Wheeler, S. Dakota	2.4 2.2 3.1	1.0 1.2 2.5
Canada	Variegated, Ontario Common Violet, Ontario . Variegated, Ontario	3.4 3.2 3.6	2.0 .8 2.2

In the tabulated results here presented, we see the great difference in yields between the Peruvian and the Grimm varieties of alfalfa. Here we have a comparison in the results of a tender southern alfalfa and a northern hardy variety. The Peruvian aifalfa, with the exception of a few plants, was all killed out in the severe winter of 1910-1911; while under similar conditions, the Grimm alfalfa survived the winter with almost a perfect stand of plants.

THE HARDIEST ALFALFA

Of the five different lots of common alfalfa obtained in the United States, from Texas in the south to Montana in the morth, the results above the influence of the winter killing to a very marked degree. The Montana alfalfa, which withstood the winter the best of these five lots, is considered to be one of the very hardiest of the commercial strains of the common western alfalfa.

The two lots of alfalfa, from Kansas and South Dakota, have been noted for their hardiness in those states in which they have been tested. The sample from South Dakota gave particularly good results at Guelph, displaying hardiness to a marked degree.

CANADIAN VARIEGATED DESIRABLE

The three lots of alfalfa from Ontario show very interesting results, the two variegated lots coming in the same class for hardiness as the Grimm alfalfa of Minnesota and the Wheeler alfalfa of South Dakota. The two most important points, however, in connection with this experiment appears to be the superiority in hardiness of, first, the Canadian variegated alfalfa over the common violet alfalfa of the United States, and, second, the Canadian variegated alfalfa over the common violet alfalfa of Ontario.

Taking into consideration the results both in the United States and in Ontario, we have much evidence to show that the variegated Canadian alfalfa is very hardy and is worthy of special attention in the province of Ontario.

## How Best to Improve the Herd

E. Leidlaw and Sons, Elgin Co., Ont.

Should a man who wishes to improve his dairy
herd grade up gradually or sell out and invest
in pure-tred animals only? In reply to Mr. W.
Payne's question in Farm and Dairy we would
answer that it all depends upon the man's circumstances. If he has plenty of finances it might
be best to sell and buy good pure-breeds. A
man in limited circumstances had better creep
before he walks.

In any event we would recommend disposing of half of the poorest one (as the average is not very high) and replacing as many with good pure-breeds as circumstances would permit. If the man is just going into the business for the man is just going into the business for the producing end of it he can grade up with good pure-bred bulls to get just as much milk as would be possible with registered stock.

There is in this scheme one danger. He might breed a few more poor ones in the grades. There is always danger of animals reverting back to some of the defects of their mongrel ancestors, oven after several generations. With a good prepotent sire of good official record ancestry, however, the most of the offspring should do well. In our own experience with grades one bull we had never left us a poor helfer.

Estract from an address at the Ontario Provincial inter Fair at Guelph.

## THE REFORMS THAT WOULD REMEDY EXISTING CONDITIONS

ARTICLE No. 19

The preceding articles in this series have been designed to show that no matter how much wealth the people at large may produce the greater part of the wealth so produced flows, by indirect but none-the-less-certain methods, into the pockets of the few. The many who create it do not profit by it except to a very limited extent.

We have discovered how to increase our production of wealth. We have not as yet discovered how to so regulate our laws that they will ensure he wealth thus created being retained by the many who create it. By means of the monopolies they only and the "special privilegee" they possess, "the few" are enabled to exploit "the many." From time to time they advance "rents" in our trading centres and the prices of the articles we buy. In this way the cost of living increases just in proportion as we increase the production of our farms and as the wages of our working people are advanced in our cities. This is the cause of "the high cost of living." Each increase in the "cost of living," when traced to its source, reveals this fact. Thus the reward of their labors is taken from "the many" by "the few."

### OUR STATESMEN ARE AWAKENING

These conditions are becoming so apparent the leading statesmen of the world already recognitive the need for action. The national governments of Great Britian and Germany have both passed laws recently that place a limited tax on land values (not on land) and thereby take bank for the benefit of the many a portion at least of the millions of dollars of wealth "the many" create but which hitherto has been appropriated by "the few." In the United States, the National Government is proceeding the trusts and combines, and the Republican candidates for the presidency. Taft and Roosevelt, are each denouncing the other as being allied with the "big interests" instead of being on the side of the people. In the United States also the Democrats, who are pledged to tariff reduction, now control the House of Representatives.

### CONDITIONS IN CANADA

In Canada, Premier Borden realizes the need for legislation that will protect the interests of the many from the greed and power of the few. Speaking recently to the members of the Associated Press, at their annual banquet in New York, he said,

"It must be admitted that the vast increase in wealth that has taken place during recent years "has been attended with an enormous and alarming inequality in its distribution. It cannot be "denied that this inequality in its distribution is attended with a certain amount of danger or "even menace to the existence of democratic institutions in their present form. No democracy "is built up on an enduring foundation that falls to endow its citizens with equality of opportunity "so far as that may be humanly possible."

Throughout the provinces of British Columbia, Alberta and Saskatchewan, the principle of the taxation of land values is widely in force. In Ontario, Premier Whitney, while opposing local option in taxation, has admitted that a portion at teast of the land values, as they increase by millions of dollars in our towns and cities, should revert to the people at large who create them. He has aid that it should be possible to pass laws that would ensure this result. Having made this admission, Premier Whitney, whether he recognizes it or not, has admitted the justice of the whole argument for the taxation of land values. Hon, Adam Bock, also, is endeavoring to regain for the benefic of the people their rights to the water powers of the province which in a measure have passed out of their control. The enthusiastic support he is receiving shows that the people of Ontario are with him in his fight.

### THE CAUSES OF EXISTING CONDITIONS

In Article Number 19 it was stated that the pow r of the few to tax the many was due to five main causes: First, their control of land in our trading centres, the towns and cities; Second, their control of the great natural resources of the country, such as our coal and iron mines, oil wells, water powers and timber imits; Third, their control of our great public utility companies, such as our transcontinental railway systems and express companies; Fourth, by means of combines and mergers that form behind our protective tariffs and gain control of the production of many lines of manufactured articles; Fifth, by means of watered stock which helps to disquise the normous profits made possible by the preceding four methods. We might have added a sixth method, namely, the control of our great chartered banks, twenty-five of which now, through their boards of directors, are enabled to a large extent to control and direct the wealth of the nation. This condition, also, however, like the fifth, is largely an outgrowth of the first four and will go far to right itself when the first four have been remedied.

### THE REMEDIES-WHAT THEY ARE, HOW THEY SHOULD BE APPLIED

The remedies for all these conditions are being widely advocated. They have been adopted by the three great farmers' organizations of the west as a part of their platform. The Dominion Crange of Ontario has also endorsed most of them as did the great farmers' deputation that went to Ottawa in December, 1910. They are as follow:

The monopoly in land and in natural resources can be broken by a direct tax on land values. Farmers have nothing to lose and everything to gain by such a policy. Under it the people who are now making fortunes by their control of land in our cities, of our water powers, and of our coal and iron mines, would have their monopolies broken. Such land would pay more taxes than all the farm land in the Dominion. One agree of land in the besiness centres of cities like Toronto and Montre-1, one valuable water power, one great coal, iron, or nickel mine, would then pay as much taxes as thousands and even hundreds of thousands of acres of farm and. This land and such resources could then no longer be held idle or be only partly worked to the loss of the public and the benefit of the tew.

The power of our great transportation companies to exploit the people can be controlled by taxing their road beds in proportion to the value of the monopolies they enjoy through the special privieges and charters they have received from the public. As the taxes they would pay would be based to some extent on the rates they charged they would be forced to lower their rates to escape what otherwise would prove excessive taxation.

Our combines and mergers can be controlled by removing the tariffs from which they derive their strength. All tariffs in every country benefit the few at the expense of the many.

The watering of stock can be made a criminal offence and heavily penalized.

How I Plant Field Corn Thos. Totten, Essex Co., Ont.

Glover sod well fertilized and plowed in the spring, as early as possible, is the best possible preparation for the corn crop, especially on day loam, which we consider soil for corn. Week can be destroyed better on spring plowed land the roots of the corn will go deeper, and the ground will not pack with heavy rains. When plowing for corn it is best to plow for half a day.



Stalls that are Light, Airy and Sanitary

Stalls task are Light, Airly and Samiary.

In a wide stable, the stalls in the centre are are to be dark, and hence unhealthy, if heavy wooden notitions are used. Our illustration shows how the deculty is overcome in the large stable at the Outer Agricultural College, Guelph, Ont.

—Photo by an editor of Farm and Day.

roll the ground to hold the moisture, and then pover it with a light drag harrow in the same direction as the land was plowed. It is better to pover the land twice with the drag, going the second time in the opposite direction, and reper if necessary.

Hand planting of the seed corn is the best what time will y wrnit, but when we have many acts of corn to plant we have to use the horse plants. Four kernels to the hill is about right with got seed.

### d. WHY HILLS ARE PREFERPED

We prefer to plant in hills rather than in drik as we find that it takes much more work to be drilled corn free from weeds than when it is hills. Immediately atter planting, if the weste is dry, we harrow, then roll the ground. Was harrowing we turn at the end so the harrow wil cover all the foot prints made by the horses.

If one is trying for some coveted prize for en in the field it is better to transplant than repin the hills that are missed. To do this we plant few extra rows between the other rows with is hand planter. Transplanting is done with a spade. The cultivator will take out all that is not needed.

### Use Cement in Road Culverts

O. D. Leach, Halton Co., Ont.

The floods here this spring have certainly test the merits of various styles of road culverts is good shape. Our experiences have proven the merits of the cement culvert to a nicety. West en culverts everywhere have been washed out partially broken down. And the cement culvert are almost invariably as good as they ever were

We prefer round coment tile for culverts visonly a small amount of water is to be handled, be where there is a large stream in the spring of inyear the concrete arch will give the best satisftion. Either of these styles may be a little sm expensive when first installed, but, judged (sm the standpoint of usefulness for a period of year there is no question as to their superiority.

there is no question as to their appearons; and Another phase of the culvert question his should not be forgotten is that a municipality liable for damages if a man or horse are injust when passing over a bad culvert. With the si wooden style of culvert there is danger of a less getting its foot down and breaking a log.

This is a cement age, and municipal counts can make good use of cement when it comes a making good culverts on country roads.

These sugges she knows it they might the get two or the When a swith swarm hive. Cover though not the swarm after the swar a new stand.

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## Swarm Hints for the Amateur Beekeeper

Chas. Blake, Frontenac Co., Ont.

These suggestions are not intended for the man sho knows it all. They are written in order that they might help some boy or girl who has or can get two or three hives of bees.

When a swarm comes off place the new hive with swarm in beside, and close up to the old Cover the new hive with an old sack. though not too tightly, for a few days until the new swarm gets settled. On the seventh day after the swarm came out remove the old hive to new stand. This will stop second swarming and the old hive will build up for winter.

The new swarm will give much more honey when handled in this way, espenally if care is taken to remove the old hive at a time of day when the most young bees are flying, which is generally at one or two o'clock on a fine day. all these young bees will go into the hive containing the swarm, and this is the skip that gives us the crop.

### My Experience with Tile Drains

P. W. Scott, Huron Co., Ont.

The cost per acre of laying tile drains varies according to the situation of the land to be drained. On low flat land formerly a black ash swamp for which I first procured a good outlet I placed drains 100 feet apart, and as they were 52 rods long, could only get about two inches fall per 100 feet, starting at three feet four inches and coming up to 2 feet. These drains cost for labor, 18 cents

much an acre, as they can be made along the boundaries of farms or fields at the edge of the rising land, thus preventing the surface water from the higher levels overflowing.

As to depth of tile drains to give best results, considerable difference of opinion exists, some preferring drains close, say two rods apart, and only 18 inches deep, others three feet to three and a half feet deep and four to eight rods apart Possibly both are right when difference of soil is considered

In my experience, drainage has 'ully doubled the output of part of my land, and materially increased the production of all that I have drained. I therefore say, "Underdrain the soil where it is wet or springy, and it will pay big dividends.

### How I Handle Mares With Foal

S. M. Bird, Wellington Co., Ont.

I feed my brood mares hay three times a day, clover, timothy, or mixed, but not very much, just enough to keep then, eating for about an hour to an hour and a half, if they are fast enters an hour will be plenty. A carrot is given twice a day, and oats enough to keep them covered with a fair coat of flesh

If I have no work for the brood mare I turn her in a field once or twice a day. If the field gets soft I have a yard ready for them. Some horse men say that brood mares should not be turned out when weather is rough, but I turn them out in the greatest storm if it is not rain-

dressing three and four times a day for several days. Always see that the navel looks dry and black before stopping treatment. Other points of importance are to see that the colt starts to suck and that the black manure balls come away in

### Feeding Cows in R. of P. Tests

Andrew McRae and Sons, Queens Co., P. E. I.

"How do we feed our cows in record of performance test?" To make a good showing the gow should have at least two months of a rest and be in very high condition at the time of freshening. We feed from six to 10 pounds of meal a day per cow when dry. If not on pasture we feed 50 to 60 pounds of turnips and what clover hay she will eat. The meal is made up of two parts oat and barley chop, one part bran and one part oil-cake meal. About two weeks before calving we drop the oat and barley chop, which is partly replaced by bran.

When the cow freshens if she is fat, as she should be, we do not feed much meal the first two or three weeks, but feed liberally of roots with a little bran and cotton seed meal. Our object is to get the cow to start some of her "surplus fat" into the pail. We do not, however, like her to get at all thin, but gradually bring her up to a meal ration of about one pound of meal to every three pounds of milk the cow

### THE RATION THAT MAKES MILK.

The meal ration we use is generally made up of mixed ground grain two parts, bran two parts, oil-cake one part, and cotton seed meal one part. These proportions are varied to suit individual cows. For instance, if we see a cow losing flesh we increase the grain and lessen the bran, or if she appears to be gaining flesh, we increase the bran or cotton seed meal and reduce the grain. Our succulent foods are principally turnips and some mangels for April and May, this being the first year we had ensilage.

In the morning we give the testing cows a pail of water, then milk, then feed the meal along with 25 to 30 pounds of pulped roots, then fill up the manger with straw for them to pick over. We let the cows out for a short time in the middle of every fine day when they get water, but not ice cold. There is a small feed of hay before the cows when they go in. In the evening they are milked and the same amount of meal and roots are fed. Then they get all the hay they will eat clean; clover is preferred.

When cows are milking heavy we milk three times a day, and when pushing them for a short time we divide the meal in three feeds. We consider that the most important items in making good records are regularity both in milking and in feeding and making changes either in feed or other conditions very gradually.

It has been estimated that at the present market value, there is about \$11,000,000 worth of nitrogen over each acre of land. Why should we purchase commercial nitrogen at the rate of 15 to 20 cents a pound, when we can replenish this element at a cost of about three cents a pound by growing leguminous crops?

The Wisconsin Experiment Farm has made investigations as to the comparative cost of storing feed in silos and barns. The ordinary hay mowed in a barn costs \$10 a ton of storage capacity to build. Their 100 ton concrete silo cost \$293 or \$3 per ton capacity. A ton of hay equals 21-2 tons of ensilage in feeding value, or to store the ensilage equivalent to a ton of hay would cost \$7.50, a saving of \$2.50 in favor of the silo for every 21-2 tons



Another Important Operation Being Performed the Easiest Way

Another Important Operation Louing . The light smoothing harrow might well be used more largely than it is. For "fining" the seed bed and for latting a fine surface mulch after the roller. The sulky device also is good and does not add appreciable the draft.

Out courtesy I. H. C. Service Bireau

and for tile, 18 cents-total, 36 cents a rod, not counting hauling and Loard of men, costing about \$10 an acre, besides drawing tile.

On higher ground surrounding this swamp I put drains 50 feet apart, and an average of two and a half feet deep at about the same cost per rod. To the above in my case should be added the cost of the main drain, which, being of large tile, graduated from four inches to 12 inches at outlet, would probably be two-thirds of the cost of the branch drains. The land I have drained will, all told, average \$18 an acre.

### QUICK RETURNS

I have been fully repaid for the cost of tiling by the increased crops of one year in some fields, and at furthest three years.

Except in a gravelly or sandy subsoil I consider all our land here benefitted by drainage. Drained land stands dry weather much better than undrained. For large areas of flat, swampy land free from springs, open drains to carry off surface water do very well, and do not cost very

ing. Of course I don't keep them out long; just time enough to take a good run.

### WORK FOR THE MARES

I groom my mares a little nearly every day. In winter I work them at all kinds of work, heavy and light, but I take care that they do not slip too much. In spring the brood mare will help to do all kinds of work. I have hauled manure all day with a mare and the colt come all right at night. It will not hurt the in-foal mare to work right up to foaling time if they are not driven too fast. We all know that a mare with foal is not so long in wind as another horse.

Before and after foaling I see that the mare has a good box stall with no holes in the manger or walls where the mare or colt could get caught, and that there is plenty of straw on the floor. After foaling I tie the navel cord and cut it off if it has not torn off of itself. I would sooner see it off when I come than to cut it.

I dress the navel with a dressing of one part of carbolic acid to 20 parts of water. I use this IDEA

GREEN

FEED

- with an Ideal Green Feed Silo

The most prosperous and experienced dairymen all over the Dominion agree that a good silo is a necessary part of the dairy equipment of any cow owner who wants to realize a reasonable profit from his herd

A little investigation must convince you that it will pay you to erect a silo.

The next question is, "What silo?" You cannot afford to experiment.

You want a silo that by many years of use has proved its worth

The IDEAL GREEN FEED SILO has been longest on the market. Thousands

of prominent and successful owners are thankful for the day they erected an IDEAL GREEN FEED SILO on their farms.

The materials and construction throughout of the IDEAL GREEN FEED SILOS are of the very best, and everyone contemplating the erection of a silo this year will find it to his advantage to get our specifications and prices before contracting for the erec-

Made in all sizes and shipped complete. Be sure and get our new Silo Book.

DE LAVAL DAIRY SUPPLY CO., LIMITED

LARGEST AND OLDEST SILO MANUFACTURERS IN CANADA 173 WILLIAM ST., MONTREAL 14 PRINCESS ST., WINNIPEG

## Some Features We've Told You Little About

In our previous advertisements the big features of the Standard have beer ening—The Self-Olling system—The Centre Balanced Bowl-The Liberal Space Between Disc Edges and Bowl for Holding Accumulation of Impurities—The High Crank Shaft—The Low Epply Can—Of the



Cream separator. But there are other features that add greatly to the convenience and For instance, there is the Wide Open Bowl so easy to get at and wash. No tubes to gup either. Then there are the Diese holder in about one minute. They are numbered so they cannot be put together wrong. They was the best of the property of the contract of the cont

milk to leak through when the bowl is revolving.

good feature is the Interchangeand Gutch, which permits the Standard to
run down without wear on the working
parts. Note: When you stop the crank, the
gears all stop and the bowl runs down of its
own accord and without wear. The Interchangeable Glutch also enables you to
"pump" the handle and start the machine
quickly and easily and the start the start



But there are other features many of them-told about in booklets. them. They are free to all progressive dairymen and

## The Renfrew Machinery Co., Limited

Head Office and Works : : RENFREW, ONT. Sales Branches: Winnipeg, Man., and Sussex, N. B.

Corn or Roots-or Both

N. B. Stuart, Oxford Co., Ont. Few of us realize what a wonderful plant is Indian corn. Were a reliable edsman to advertise that he was introducing a new annual grass which would reach a height of seven to 15 would reach a height of seven to 15 feet in four or five months and pro-duce under favorable circumstances from 30,000 to 50,000 pounds of green forage an acre, of which from 4,000 to 9,000 pounds are dry matter and that this grass, by providing a suit-able store room, could be fed in a and store room, could be red in a green state all winter and be palatable and nutritious, we would all be very anxious to give this wonderful forage plant a trial. As we have known it for sales how a result of the sales have the sa for so long, however, under the com-mon every-day name of Indian corn, we do not appreciate its value as we should

Indian corn fed as corn fodder or ensilage is the cheapest and best carbonaceous food that can be grown on Ontario farms. As well as being a cheap food, it is the best crop possible for clearing the farm of weeds as a large acreage can be grown with little hand labor. This, in my opinion, is the great advantage of corn over roots. In these days of high-priced labor, the hand-hoeing connected with labor, the nand-noeing connected with the thinning of roots, as well as in harvesting them, makes them an ex-pensive crop when we finally have them in the root cellar. We grow 20 acres of corn and five acres of roots, and there is more hand work on the five acres than on the 20 acres.

TWICE AS MUCH FOOD PER ACRE

But corn while being a cheap food to grow per acre, produces twice the weight of digestible nutrients as do An acre of land in such a con dition that it would produce 6,000 pounds digestible matter in the form of corn would only produce 3,000 pounds in the form of roots. I would not advocate leaving roots out of the altogether. particularly where corn is fed dry as corn fodder Roots, either turnips or mangels, have a succulence which is lacking even in corn ensilage. Dairy cows fed liberal ration of roots always ha hearty appetites and that soft pliable skin which indicated that they are just in right condition to do good

work at the pail.

The ideal feeding is a combination of either corn fodder or corn ensilage with a small amount of roots. hogs are kept as a side line to dairying, mangels are a very desirable feed pork production. Where the alities are dairying and hogs, we regard one acre of roots to four of corn as about the right proportion.

### Silage Spoils in!Silo

I built a new stave sile in 1910 that was I built a new stave sile in 1919 that was, filled and kept splendidly until the following April when within four feet of the bottom, the slage developed atreaks of dry green mold, rendering it until for feed. We have at present 10 feet of slage in the we have at present 10 feet of slage in the prevented?—C. V. E., Wellington Co. Deprevented?—C. V. E., Wellington Co.

Mold in ensilage is always caused fungus or bacterial growths that must have air before they can live. your ensilage started to spoil from the ottom the only explanation is that air is getting in around the bottom of the staves

Moistening the silage at the top would tend to prevent decay there. As the weather gets warmer it will be necessary to use at least three to five inches a day from the surface of the silage to prevent decay. If it is not possible to remove the ensilage to that

down only one-half of the sittime. If you wish to carry of short pastures in July and Augu soaking the first few inches of silage with a concentrated solu salt would reduce loss to a minimum

### Enquiries re Sweet Clover

Am thinking of seeding sweet clour the year on our poor land. How can I a about to prepare the seed bed? With fertilizer had best be applied? Is the fact of the seed bed and the seed? I seed the seed? I see the Peterboro Co., Ont.

Sweet clover requires a thorough compact seed bed with just enough compact seed bed with just enough loose soil on top to enable the seed; be covered. When planted in cult vated fields sweet clover has often been a failure, and the lack of soil seed bed probably accounts for this seed bed probably accounts for this If following corn, the disc only should be used. Otherwise sow on fail-plos. ed land that has been thoroughly rel and compacted. It is not usually nec

any sort of fertilizer to the ground or which sweet clover has been seeded If the soil is unusually deficient in lime, however, the clover will show the beneficial results of an application of 400 or 500 pounds an acre. Sweet clover might be better following at application of fertilizer, but, along all, it is advisable to hold the fertilizer over for other crops that need

Sweet clover is a biennial and therefore, not difficult to eradicate a a weed. In those sections, partic-larly in the Western States of the United States, where sweet clover's almost universally grown, farmen claim that there is no difficulty in rid ding a field of this crop.

### Lime for Alfalfa

What quantity of lime would one has to use on one acre of sandy land to make alfalfa grow?—Subscriber, Simcoe Co. Ont If the land is sour or deficient is lime an application of 1,000 or 1,300 lbs. of lime would remedy the disculty. A good way to apply the lime if one has not a special liming machine is to throw the lime on top discussion. the manure in the manure spreader.

It does not necessarily follow that because alfalfa will not grow on sandy field that it is lime that is lack If the soil is wet or if it is lack ing. ing decidedly in soil fertility, alfall can not be successfully grown. Also the trouble may be that the land dos not contain the necessary legume has



ning to build or remodel. Understand, we you this book absolutely free without any gation on your part—just for answering few questions: Do you intend to build model? How soon? How many cows have Will you want a litter earrier? Will you want a litter earrier? Will you want a litter earrier? BEATTY BROS. BOX FERGUS, ONTARIO eria to inocu ase it would he alfalfa se on he obtain Ag luelph.

May 16.

Anent Cor J. R. Westle In my est cannot keep hooses withou but the manu better hire o

I take this ticle in Farm signed by E. die's article i

Lulu Glaser. 4.78 per cent fat age test being 4 ing Holstein her hening .-- (Adv

are using fer ot intend, ho the other fello are making mo money faster t A8- 0

I was recently farmer about a and some of th me about their me an eye-ope all their crops, They have bee the past 50 year they pay and I need to talk lo friend to find o and yet, strang in fertilizers. In my judgme

fe Farm and Dair f Mr. Hutchise Mr. Hu carefully and f was not guess v Hutchison endor ers, after carefu is he thereby parains? Bellyea the results of c Farm and Dairy paid. Other bra I would prefer

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teria to inoculate the alfalfa. In any the alfalfa seed with the culture that can be obtained for 25 cents from the Agricultural College Guelph

### Anent Commercial Fertilizers

Ament Commercial Fertilizers

J. R. Westlake, Cavicton Co., Ont.
"In my estimation any man that
cannot keep his land in good condijon and fit to grow any crop he
closes without fertilizer or anything
but the manure made at his barn had
better hire out with the fellow who
has brains."

I take this quotation from I take this quotation from an article in Farm and Dairy of April 18, signed by E. R. Candie, Lanark Co., Ont. The inference from Mr. Candie's article is that those of us who Wisdom on Alfalfa Seeding

Use the best seed obtainable from reliable seedmen, but beware of southern-grown seed to be sown in a northern latitude. Such plants will as a rule, survive a northern winter.

winter.
Use plenty of seed, don't stint, as a stand of alfalfa naturally tends to get thinner; a good thick stand to begin with is preferable in many ways. Twenty-five pounds to the acre, sown broadcast and harrowed in, acre, sown broadcast and harrowed in, is none too large an amount of seed to sow. If the seed is drilled in, 20 pounds is sufficient. Do not sow until all danger of frost is past.

Why Grow Clover?

You can buy nitrogen in the form

a tendency to dry out early in the season, a good plan is to roll the field, provided always the nurse crop is not over a foot high when the leaves are straightened out. This firms the subsoil and breaks the crust, the heliant the thus helping the roots and preventing evaporation. Clover sown in a cornfield as late as August 1st som times comes through in fair shape if the field is in good tilth

If S.J.C. means that the July sun burns the young plants after the nurse crop is removed I would suggest rolling as a good practice, provided the soil is perfectly dry and there has been no rain for some time.—J.H.G.

Correction. - An error occurred quoting wire fence at 10c per rod, whereas it should have read 16c a rod whereas it should have read to a two in the advertisement of the Imperial Waste and Metal Co., 65 Queen St., Waste and Metal Co., 65 Queen St., Montreal, in Farm and Dairy, Farm Montreal, in Farm and Dairy, Farm Improvement Number, page 9, May 2. The mistake was due to a blurred figure in the original copy.

### Homeseekers' and Settlers Trains to Western Canada

Via Chicago and St. Paul, April 16th, 23rd and 30th, and every second Tuesday thereafter until Sept. 17th, inclusive. Tickets will also be on Northern Navigation Company. Special train will leave Toronto 10.30 p. m. on above dates for Edmonton and m. on above dates for Edmonton and points in Manitoba and Saskatche-wan, stopping at all points on Grand Trunk Pacific Railway west of Winni-Tourist Sleepers will be carried fu'ly equipped with bedding and porter in equipped with bedding and porter in charge. Berths may be secured in sleepers at a low rate. This is an ex-ceptional opportunity for the security ing to take advantage of done wish-ing to take advantage of done and the ably low one-way Settlers actions through the American cities. No change of cars. Secure tickets and berth reservations from any Grand Trunk Agent, or write A. E. Duff, District Passenger Agent. Union Sta-listic Passenger Agent. Union Sta-District Passenger Agent, Union Sta-



WEST LAND REGULATIONS

WEST LAND REGULATIONS

ANY person who is the sole head of a ramily, or any make the sole head of a ramily, or any make the sole head of any homesteed a quarter section any homesteed a quarter section are the sole of the so

son, daughter, brother or stater.

In certain districts a homesteader in good standing may preempt a duritor, and the standing may preempt a duritor.

\$1.00 per acre. Dutice—Must reside upon the homestead or preemption six mouths to be a standing to the preemption of the standing of th

cultivate fits acres extra.

A homestead right and cannot obtain a premoniton, may enter for a purchased
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Deputy of the Minister of the Interior N B.—Unauthorized publication of this dvertisement will not be paid for

## 1,000 Apple Trees

115 Acres \$1,600 Easy Terms.

IIS Acres \$1,600 Easy Terms.

This apple orchard will make you dependent; chance to will make you dependent; chance to selected; all coasing apple and peach trees if desired; all coasing apple and peach tree if desired; all coasing apple and peach to be a super house, water sheds, store house, sugar house, water sheds, store house, sugar house, water sheds, store house, sugar house, water making out and the sugar making out and peach for any sugar making out and peach for any farm for \$1.00, page \$0, our not peach to the sugar peach peach to the sugar peach to the sugar peach to the sugar peach to the sugar peach peach



A High-Testing Holstein and a Real Good One

Lain Glaser, 6 years old, milk 431.2 lbs., butter 25.77 lbs. in 7 days; average test
even that. She gave 1.945.3 lbs. milk, 59.83 lbs. butter in 30 days, her avering Holstein Laverd ewised by 8. Lemon, Lynden, Ont. Photo taken 6 months after
brokening—(Advt.)

are using fer lizers in our farm of nitrate of soda, and the navegorate sperations have no brains. We do will cost you 18 cents a pound, or you not intend, however, to hire out with can buy it as dried blood, and it will cost you about 18 cents a pound. A cost you about 18 cents a pound. A not literal, nowever, to nire out with the other fellow as, in spite of our "brinless" methods of farming, we are making money. Perhaps making money faster than our brainy neigh-bors who do not believe in fertilizers.

AS OTHERS T'SE IT I was recently talking with a Scotch farmer about agriculture in Scotland and some of the things that he told me about their use of fertilizer was to me an eye-opener. They use it for all their crops, even pasture grasses. They have been using fertilizers for the past 50 years, and they find that they pay and pay well. One did not need to talk long with this Scotch friend to find out that he had brains, and yet, strange to say, he believed in fertilizers

In my judgment the finest contributhe my stagment the mest contribu-tion to the fertilizer discussion in Farm and Dairy so far has been that of Mr. Hutchison, of Wellington Co., Ont. Mr. Hutchison experimented Ont. Mr. Hutenson experiments, carefully and found out that the application of fertilizers paid him. It was not guess work. Now when Mr. Hutchison endorses the use of fertilizers, after careful experimental work, the three descriptions with lack or the careful experimental work, is he thereby proving his lack of brains? Bellyea Bros. also reported the results of careful experiments in Farm and Dairy and found that they paid. Other brainless ones.

I would prefer to credit with brains the man who, instead of condemning something that he knows nothing about after careful experimental work, draws his own conclusions. It may take a little exercise of our grey matter to work out a series of experimatter to work out a series of experi-ments with commercial fertilizers, but if we do I believe that we will find that there are few farms in this county so rich that the judicious use of fertilizers will not pay.

crop of 20 bushels of wheat, together with the straw, removes about 35 pounds of nitrogen from the soil. To replace this by means of commercial

replace this by means or commercial fertilizer, so as to keep up the fertility of the soil, would cost \$6.30 an acre. Clover, if grown in rotation, once in three to five years, and when cut for hay, will leave enough nitrogen in its roots to keep up the nitrogen content of the soil, replacing all that has been removed by the other crops grown in the rotation; and, in addition, it keeps up the humus content of the soil, and furnishes the farmer with one of the most valuable feeds that can be grown. Field experiments, conducted over long periods of time at different experiment stations, prove conclusively the above state-

### Seeding Clover in August

Our soil is sandy loam. The July sun seems to burn seeding clover the set wo would a cover crop be necrop should I use Norfolk Co.

Clover seed might possibly succeed if sown as late as August 1st; but, unless the season were particularly favorable, results are not likely to be very satisfactory. There would be no very satisfactory. There would be no advantage in using a nurse crop so late in the season; in fact, on the contrary, it would be a decided discontrary, it would be a decided dis-advantage, as the nurse crop would retard the growth of the clover in August and September, and later, when snow came, would to smother the young clover. In any case, judg-ing by our experience here, it is sel-dom safe to sow clover after July 15. When clover is sown with grain or a nurse crop of any kind, and shows



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Stop all laundry troubles. "Chal-lenge" Collars can be cleaned with a rub from a wet cloth—smart and dressy always. The correct dull finish and texture of the best linen. Iff your dealer hasn't "Challenge" Brand write us enclosing money, 25c. for collars, 50°, pe, pris for cuffs. We will supply you. Send for new style book.

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NONEY. On TESTED THE PREPAID, and fully oxplains our method of Selling Direct, and eaving
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BRIGHTON.

ONT.

Heaves of Three Years' Standing Completely Cured by Fleming's Tonic Heave Remedy

So says Mr. H. B. Burkholder, Lillooet, B. C., writing about Fleming's Tonic Heave Remedy, and adds, "I also find it the best condition powder I ever used." Heave Remedy, and adds, "I also find it the best condition powder I ever used." Heaves is not, as commonly supposed, a disease of lungs or air passages. It is due to atomach trouble, which, through the close nerve connection, causes a contraction of the lung itsuses, and labored breathing. Fleming a Tonio Heave Remedy corrects the stomach troubles, and tones up the whole system. Its cause g. no., the heaving stops, as few, if any, equals. Seni, pospowler, Fleming a Tonio Heave Remedy has few, if any, equals. Seni, pospowler, Telming a Tonio Heave Remedy has

We believe this is the best book

Fleming's Lump Jaw Cure—the first successful Lump Jaw Cure—today the standard treatment. Fleming's Spavin Cure — (Liquid) cures soft and semi-solid blemishes without scarring.

Flening's Fistula and Poll Evil Cure —enables anyone to readily cure cases considered incurable. Fleming's Spavin and Ringbone Paste—one or two applications cure cases of years' standing.

If ray one of Fleming's Remedies falls to cure we il refund your money—you to be the judge and your

Fleming Bros., Chemists, 83 Church Street, Toronto.

## The Right Building Material Houses, Barns, Implement Sheds

Whether you are building an implement shed, a granary or a house or barn, the most ECONOMICAL and DURABLE building material is "Metallic."

For Barns: Corrugated Steel Siding and "Eastlake" Metallic Shingles make a barn absolutely fire, lightning and weatherproof. For Houses: Metallic Rock Faced Stone er Brick Siding will give your house the appearance of a stone or brick dwelling. It is easily and cheaply applied and very durable, "A 25-year actual test" has proven "Eastlake" Shingles the best roofing. All about the permanent roof you want is told in our artistic free booklet, "Eastlake Metallic Shingles." Write for it now."

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Pump water, saw wood, grind grain, churn

and do many other laborsaving tasks with the Barrie Engine. Will pay for itself quickly by saving valuable time for you. Strong, rugged construction. So simple a lad can run it. Sure in action, economical in operation. Every farmer needs Write for booklet.

Agents Wanted



The Canada Producer & Gas Engine Co., Limited BARRIE, ONTARIO, CANADA

Distributors: James Rae, Medicine Hat, Alta., Canada Machinery Agency, Montreal; McCusker Imp. Co., Regina : ::

### HORTICULTURE

Orchard and Garden Notes

Sow some grass-seed on the bare pots of the lawn. Spray the fruit trees. It is good

insurance for this year's crop.

Have those fruit trees and plants been ordered, and the land made ready to set them out?

ready to set them out?

Spade up the ground around the shrubs and trees, leaving about two feet of cultivated land about each

Make a thoroughly fine seed-bed for

Forty pounds of pure blue grass, five pounds of solid red top and three pounds of white clover per acre makes a good lawn seed-mixture

Cut out the dead canes of raspberries and currants, if this was not done last fall. Burn all trimmings at once, as they are apt to contain insects

A good annual vine. cover up the porch or unsightly stumps, is the wild cucumber. turtiums or me es are also used for the same purpor Trim out dead the

limbs, suckers and branchlimbs, suckers and orante. Antenen sees that are too close to-gether among the shrubs. Shrubs that flower in the spring should not be pruned until they are through bloom-

Why not transplant some ferns Why not transplant some letus from the woods to the north or east side of the house? This can often be done to advantage. If put on the

side of the house? This can otten be done to advantage. If put on the south or west side, the wind and sun soon destroy them.

Harden off all plants before setting from the house or hot-bed to the open ground. This is done by gradually reducing the amount of water, and giving more air. It causes the plant to narthy rices un to the work of the side of t ing more air. It causes the plant to partly ripen up its wood, and it is thus better able to stand the change to climatic conditions outside. Plants properly "hardened off" have a dull purplish color and firm wood.

### Fertilizers for Asparagus

Almost any well-drained soil with plenty of humus in it will grow as-paragus, but a good rich sandy loam is best. In preparing the ground for paragus, out a good rich sandy loam is best. In preparing the ground for planting it should be deeply plowed and have large quantities of rotted manure worked into it.

The asparagus grower must use whatever commercial fertilizer he has whatever commercial fertilizer he has most faith in, because experimenters and growers do not agree as to what is best. Perhaps 1,000 to 2,000 pounds of kainti per acre in mideason is as good as anything. If a complete fer-tilizer is preferred the following is good: 400 pounds dissolved rock, 400 pounds kainit and 200 pounds nitrate of soda in early spring.

The second year a good coating of stable manure, or 1,000 pounds of kainit an acre, or both, should be applied early in the spring and the entire surface should be plowed four

plied early in the spring and the en-tire surface should be plowed four inches deep.

The third and successfull years a light covering of rotted manure, about five tons an arre, should be given five tons an arre, should be given during the winter or early spring, covery year if possible, or surface rote and remnants are dug in an every year if possible, or surface rote and remnants are dug in an every year if possible, or surface rote and remnants are dug in an every year if possible, or surface rote and remnants are dug in an every year if possible, or surface rote and remnants are dug in an every year if possible, or surface rote and remnants are dug in an every year in possible, or surface rote and remnants are dug in an

with this manure some commercial fertilizer should be used, either a complete fertilizer as mentioned below or kainit 1,000 to 2,000 pounds an low or kaint 1,000 to available acre. If manure is not available then a complete fertilizer must be used in early spring, at least 40 used in early spring, at least 400 pounds dissolved rock, 400 pounds kainit, and 200 pounds nitrate of

### We Have to Spray

N. Stone, Northumberland Co., Out. N. Stone, Northumbercana Co., Ont. We apple growers cannot hope trains a crop of apples nowadays with out spraying. Last year our own crop was clean. We had to hunt for a wormy apple. This is the only kind of fruit that commands attention as

Make a thoroughly fine seed-bed for sowing garden-seeds. Good preparation means less work during the summer, and better crops.

A few nuskmelon and watermelon seed may be started in herry-boxes or paper cones, and transplanted to the field when danger of frost is past.

Forty pounds of pure Kentucky like a summer of concentrations with the summer of the strength of the summer o



Her Fruits of Gardening made ready for Market This illustration shows Mrs. D. T. N. Mitchell, of Simcoe Co., Ont., who during the summer lives on againsnages a small market garden and finds in this work a source of health and considerable profit. Mrs Mitchell and her son appear in the picture.

trated commercial solution of known strength Leside risking a whole cre of apples through the variable home made solution? Lime-sulphur of any made solution? Lime-sulphur okind is cheaper than Bordeaux.

kind is cheaper than Bordeaux.

We spray three times. The fint spraying is given when the wood is dormant, one part of concentrated spray solution to 10 or 11 parts of water. The second spraying, just if ter the blossoms open, is of a strength of one to 35. The other spraying a the same strength is applied just a the blossoms fall. Arsenate of is added to control the codling moth

### Growing Two Crops of Celery J. Justice, Simcoe Co., Ont.

The process is very simple, and also very profitable. The soil is well m-nured with thoroughly rotted stable manure in the fall, dug deeply and left rough. In the spring it is well pulverized with a digging fork all nicely smoothed. This is done just as soon as possible in the spring and drills of spinach sown four feet apart. I make the drills with an eight inch hoe drawing it flat so as to get a wide a drill as possible. The seed is scattered in this and raked in. This

crop is immense.

Between the spinach rows I sow Between the spinach rows I sor a little fertilizer and work it in will a narrow souffler, going over the ground twice before setting out the celery, which is planted on the level, about the middle of May, or list, oftener later than otherwise. This crop is blanched by hilling up, as is ready for market about the midds of July. The trenches formed by his ing the early celery are fertilisely prepared and planted with lite of the control of

RAACCOGG POU 200000000

May 16,

How The prima ed in the pr protection o way of doing ia a water se kn Sodium silica any druggist gallon. One

Mix one powith from 10 Some water with this dil In such a ca of the liquid. SMALL DE Use only of

Be sure that it with the w Pack the wooden keg, solution in su the eggs. be exposed to cool. A cell for any length ditions, and t eggs which as Do not wa Wash shell the muc

FOR SALE AL TWO CENTS A orpingtons, ver. White W Black Minore eggs.—Harry

FOR SALE-Ire Rails, Chain etc., all sizes, stating what waste and Me ireet. Montre

EGGS 8.C.W. Legho tural College b \$1.00: 50 or mo: OBASCA PRODU

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CHOICE SIN LEC Famous Becker per 15. David A. Ashwoi

WHITE R BLUE A A limited numb my pure bred and above breeds. Price, \$1.00

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## POULTRY YARD

### How to Keep Eggs

The primary principle to Le observ-The primary principle to be observed in the preservation of eggs is the protection of the interior from contact with the air. The most effective way of doing this is to immerse them way or doing this is to immerse them in a water solution of sodium silicate, usually known as "water glass." Sodium silicate can be obtained from any druggist at from 45 to 60 cents a gallon. One gallon should be suffi-

gallon. One gallon should be sufficient for about 50 dozen eggs.

Mix one part of the sodium silicate with from 10 to 12 parts of water. Some water glass is so thick that, with this dilution, the eggs will float. In such a case, add enough more water to make them settle to the bottom of the liquid.

SMALL DETAILS BUT IMPORTANT Use only clean water, from which the air has been removed by boiling.

the air has been removed by boiling. Be sure that it is cold before mixing it with the water glass. Pack the eggs in a jar or clean woden keg, and add the preserving solution in sufficient quantity to cover the eggs. No part of the shell should be exposed to the air.

The packed eggs should be kept cool. A cellar is the best place for storing them. Pack only strictly fresh eggs. Stale eggs will not keep fresh eggs. State eggs will not accept for any length of time under any conditions, and they may affect the fresh eggs which are packed with them.

Do not wash eggs before packing them. Washing removes from the

shell the mucilagenous coating which

## FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER ORPINGTONS, Black, Buff. Golden, Silver, White Wyandottes. Dark Brahmas, Black Minoroas, Hamburgs, stock and oggs.—Harry Lush, Peterboro, Ont.

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A limited number of Settings of Eggs from my pure bred and heavy laying strains of the above breeds. Price, \$1.00 per setting of 15 eggs W. E. PAKENHAM, NORWOOD, ONT

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

EGG CASES SUPPLIED

Established 1854

The DAVIES Co. TORONTO

nature provides for their temporary preservation.

RETAIN FRESH FLAVOR

Eggs preserved in this way retain their original fresh flavor perfectly; they are not discolored, the yolk re-tains its normal consistency for sev-

other methods of preservation, though less satisfactory in their rethough less satisfactory in their re-sults, will keep eggs for from three to four months in such condition that they may be used for cooking purposes. A preserving mixture which has given fair resu'ts is made up of 31-2 pounds of fresn lime mixed with 43-4 pounds of salt, and the whole dissolved in the salt of the sa 4 3-4 pounds of salt, and the salved in eight gallons of water.

Eggs may also be preserved fairly well for a few months by packing dry in a mixture of equal parts salt and sawdust.—R. M. West.

### Exercise for Brooder Chicks

In the rearing of chickens in brood-es the best method of feeding is that ers the best method of feeding is that which will possess the tendency with these artificially raised birds is to the tendency with these artificially raised birds is to the tendency with these artificially raised birds is to make the tendency with the time, to est too much and not to take newless to much, and not to take newless that it develops every nucle of the body and promotes rapid and healthy growth. It also keeps up the circulation and causes the chicks to breathe freely and thus to develop the lungs, and, finally, it strengthens the digestive organs and keeps them in order. Exercise cannot be taken in the sleeping compartment of the brooder,

ive organs and keeps them in order. Exercise cannot be taken in the sleeping compartment of the brooder, and the place for it is in the run. This should be ample for the number of chicks. The floor of it should be clean and well littered with a light scratching material, in which the attendant should bury small seeds of various kinds to the end that the chicks may spend most of their time scratching. Probably the test kinds of litter are chaff and hay seeds, together with mill dust and the sweepings of the hay lofts. Most farmers have plenty of such materials at hand, and this is the way to utilize them to advantage. The chicks should be fed largely or entirely on dry stuffs, and every particle of this kind of food and every particle of this kind of the blood be buried in light litter of the kind of december of the should be buried in light litter of the kind described or something similar.

—Irish Homestead.

## Fowls have Indigestion

I have had several hens die through their food not passing out of the crop. Even when not fed, the crop still remains full and hard. What is the trouble? What should I do?—A. A., Chateauguay Co., One.

Your fowls are suffering from acute Your fowls are suffering from acute indigestion in the shape of being crop-bund. A dessertspond olive oil often brings back a turnious olive oil often brings back a turnious is more obstinate the bird is made to swallow a small quantity of moderately warm milk; then an effort is made by working the crop to bring up the mass of food. Half a feaspoonful of bicarbonate of soda is administered dissolved in about a table-stered dissolved in about a tableistered dissolved in about a table-spoonful of water which often suc-ceeds in causing the food to be thrown

If these remedies fail resource may be had to surgical treatment. In that case the food is extracted to the control of an incision in the copy, then so the so the copy that there is the surface of the crop must be first plucked off. An incision about an inch in length is then made through the 'skin and membrane of the crop. This makes it very easy to remove all the food. A suture is then made, preferably with silk hread, from inside outward, and the seam is smeared with a little lard. The wound heals in eight or 10 days, during which mash should be fed in small quantities. If these remedies fail resource may small quantities.



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After years of scientific research and experimenting, we have succeeded in finding a preparation that will rid domestic animals of flies, mosquitoes and other vermin that not only worry them but positively injure their health.

Cow Comfort is the most powerful insect destroyer and exterminates lice, ticks, fleas, etc. Its curative effects are simply marvellous in cases of skin diseases, scabs, tetters, etc.

Sold in gallon cans at \$2.00 each, but as the contents of a can are to be diluted with four tions of water, it makes the price really #0 text a gallon.

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We need yours. Write for weekly market letter. 57 Front St. E., Terento SHOP THE

AGENTS We will pay you well to hustle in your district for new sub-FARM AND DAIRY, Peterboro, Ont

### Notes on Cooperation

Cooperation means the union of the Cooperation means the union of the efforts of a number of people for their common good. Successful cooperation just like successful home life, retion just like successful nome life, re-quires, on the part of each individual interested, more or less forbearance and some modification of one's ideas of absolute individual independence, but it is worth while,

but it is worth while.

Many advantages can be secured, through cooperative breeding, that the individual cannot afford. Better sires can be secured; sires can be proved as to worth, and after a few ears of operation only sires of known

value need be used.

Cooperation is one of the great forward movements in the country toward movements in the country to-day. The best example we have of cooperation is that of the family. In the family we find all individuals working for the common good. Of course, it is impossible to carry this ideal relationship to all of one's neigh-hows: hut the more acceptance. ideal relationship to all or one's neigh-bors; but the more nearly this same feeling of helpfulness and generosity can be duplicated, the more successful will a cooperative enterprise be.

COOPERATIVE LAUNDRIES NEXT
A careful study of the situation in-

dicates that cooperative laundries in dicates that cooperative laundries in connection with cooperative cream-eries may reasonably be expected within the next few years. It appears that the total cost of a laundry equip-ped to wash and dry all of the clothes of from 100 to 300 families need not exceed \$3,000; and that the total cost exceed \$3,000; and that the total cost of operating such a laundry, including 10 per cent depreciation, six per cent interest, fuel, labor and loss of clothes need not exceed \$3,500. If such a laundry were serving 150 families, the cost would be approximately \$24 per family per year, or 50 ts. a week. Substracting from this the cost of fuel. Substracting from this the cost of fuel, soap and machines, now used olding the washing on each farm, it would seem that the amount the women of the farms now save by their heavy later in washing is ridiculously small, only \$10 to \$15 per year for the average family

operative marketing of eggs another branch of cooperative effort that has given very satisfactory rethat has given very satisfactory results. Mr. Alfred Carlstad, of Dassel, in describing the workings of a sel, in describing the workings of a United States cooperative egg association of the satisfactory results. United States cooperative egg association has the following to asy: "We started the association with 60 members; we now have 80. During the nast eight months the association has harded 22,000 dozen eggs. It has maded 22,000 dozen eggs. It has dozen. A those \$4,480, or 22 cents a dozen. A constant of the state of the tion, has the following to say:

Why Milk Doesn't Churn

We have great difficulty in churning the cream produced by our one cow? Why is this? How can the trouble be remedied?—M. M. P., Dufferin Co., Ont.

It is a common difficulty where only It is a common difficulty where only one cow is kept, not to be able to get butter. The usual remedy is to pasteurize, that is, as soon as sufficient cream is collected for churning, set the cream can into another can of hot water, and heat the cream to a temperature of 160 degrees and allow to stand for about 10 minutes, then remove from the hot water, and cool by setting the can into a can of cold wasting the can into a can of cold was setting the can into a can of cold wa-ter. When cooled to about 70 degrees ter. When cooled to about 70 degrees add one pint of good flavored sour skimmilk, or buttermilk, preferably gotten from a neighbor who makes good butter, for each gallon of cream. Stir this well through the cream, cover, and allow to stand in a modecover, and anow to stand in a mode-rately warm room for about 20 hours, when it should be ripe and ready for churning. Churn at about 72 to 74 degrees, and the butter will usually come alright.

Sometimes it is necessary to the cow about a pound and a half of epsom salts. in the form of a drench.

—Prof. H. H. Dean, O.A.C., Guelph, Control of Insect Pests

The Division of Entomology of the Experimental Farms Branch, has recently issued a bulletin by Dr. C. Gordon Hewitt, Dominion Enter gist, on "The Control of Insect Pests in Canada."

An account is given of the history of the war against insect pasts in Canada and of the manner in which Canada and of the manner in which insect pests have invaded the country as it has been gradually opened up and cultivated. The manner in which the Dominion and Provincial governthe Dominion and Provincial govern-ments are endeavoring by legislation and other means to prevent the intro-duction of insect pests into Canada and the increase and spread of these and the increase and spread of those pests already here is described. Co-pies of this publication, Bulletin No. 9 (Second Series) Experimental pies of this publication, Bulletin No.

9 (Second Series) Experimental
Farms, may be obtained from the
Publications Branch, Department of

Agriculture, Ottawa.

Potato Canker Prof. G. E. Howitt, Botanical Dept. O. A. C., Guelph

O. A. C., Guelph
The introduction of Potato Canker
would cause serious loss to the farmers of Ontario. A careful secution A careful scruting of the seed potatoes should enable any one to detect the presence of the cas-ker. Badly cankered tubers can be noticed at a glance, as they are mis-shapen and completely covered with warty excrescences. Badly disease diseased potatoes, however, are not likely to be



A Cankered Potate

found in the seed, but tubers, which are only slightly affected and which as a casual glance appear sound. These may be detected by examining the cyce, which will be found to be slightly by protruding and composed of cluters of little nodules. The accompanying photograph shows the displaying photograph shows the displaying photograph shows the displaying bell developed at one sed of the tuber.

Potato canker is now found in England, Ireland, Scotland. Scandinavia. Germany, France, Italy and Newfoundland. On account of the shortage of the potato crop in Ontario last year, large quantities of potatoes are being imported, especially from Great Britain. The danger lies in the planting of imported potatoes infected with the canker. Farmers should make a point of knowing the source of the seed potatoes they are using and of making a careful inspection for any signs of canker before planting Suspected potatoes should be sent to Mr. H. T. Gussow, Botanist. Dominion Experimental Farm, Ottaws, or to the Botanical Department. O. A. C., Guelph, for examination and report. On no account should any suspected potatoes be planted until a report upon them has been received. the canker. Farmers should make a

The Dominion Government has decided that it will take two men to all the place made vacant by the retirement of Dr. Rutherford, one to have the administration of the veterinarian and meat inspection branch, and the other the live stock and records branch. Mr. J. E. Brethour, of Burford. Ontario, is to be appointed Live Stock Commissioner and head of the live stock records branch. The apit is reported, will be pointment, made shortly.



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Stock of Known and Proven Production WILL BE SOLD AT PUBLIC AUCTION At My Farm, near WESTON, Ont.

### Thursday, May 23rd, 1912

The offering includes 20 females from Cornelius Posch, to, who won First Prize Five Years in Succession at Toronto, also at London.

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 Champion of Canada.

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I have always used the best sires obtainable and have gone after high testing stock. Several of my females average above 4% butter lat. They have records from 10,000 lbs. 15,000 lbs. as 2-year-olds to 19,000 lbs. milk in one year as mature cows.

This is the kind of Holsteins you want for foundation stock or to improve or add to your herd.

Plan to come to my Big Sale, MAY 23rd. Send now for Catalogue. Rigs at Station on day of sale

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To make the work an easy guide for careful study and ready reference the subjects are arranged in the form of "Answers, giving in plain language all the information requisite for sucoffilly and economically operating a plant of any size

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FARM AND DAIRY - Peterboro, Ont., Can.

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Where Employed.....

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## SWINE DEPARTMENTS

Our readers are invited to ask of customers are for a surface and the customers are considered as the customers are considered as the customers are considered as the customers are customers as the customers are custom

### Facts About Pies

W. O. Morse, Halton Co., Ont.

Co., and sense is the biggest element in successful pig feeding. No animal has more likes and dislikes than the average pig, and we must cater to them if he is to do well for

Keep the hog dry and clean. This is a greater factor than the feeding. I have seen men feed much more than I do, but as the pigs were in dirty quarters they did not thrive. Half the feed will make a better hog in dry, clean quarters. It means comfort, and comfort means gains.

I prefer spare feeding to excessive feeding. If the troughs are not thor-

the animals will eat up clean and quickly. Feed will be saved by this method of feeding and not nearly so much risk will be run. It is not the amount of food that an animal takes into its stomach that cause a gain in weight, but the amount that is assimilated, and when amount that is assimilated, and when we overfeed we injure the stomach and a large part of what is eaten is not assimilated by the animal. This not assimilated by the animal. This excess food is worse than that wasted, for it gives the animal a set-back from which it does not speedily recover \_P

### Be Sure of Title

"There is altogether too much loose-ness in the methods in which farm lands change hands," said a real estate dealer to an editor of Farm and Dairy recently. "I have had several Dairy recently. "I have had several pieces of farm property on my hands recently that a little investigation showed did not legally belong to the man who was offering it. For instance, one one of the last farms I handled it was discovered that some 10 or 12 years back, the deed of transfer had not been signed by the man's wife. She therefore had a claim



The Kind of Management that Brings Success with Hogs

The Kind of Management that Drings Juccess with rougs well bred hogs housed and fed at a minimum of expense are found to be prefitable on the farm of W. J. Telford, Peterboro Co., Ont., a competitor in the farms from position. Notice the cheap portable hog house. Such a house costs are fairned competition. Notice the chapter of the proof sows or proving hogs. growing hogs.

oughly cleaned up at one feeding I awaid not give the pigs a bit to eat the next meal time, and at the next meal time they will come round hungry and squealing. That's the way to have them. Once pigs are within two weeks of the finish there is little dager of ever feeding too much, give just all they will stand.

In every bunch of hogs there is always sure to be two or three bully pigs that get more than their share of the feed. These pigs to my mind. of the feed. These pigs, to my mind, explain the unevenness in a litter more than natural tendencies inheritmore than natural tendencies inherit-ed at birth. I would take out the pigs that are too aggressive, and put them in a pen by themselves.

. . . I believe in elevated sleeping quarters both for breeding stock and market hogs. Such quarters have a double advantage. They enlarge the pen, giving full use of the floor space, and the pigs are always dry.

I prefer above all others a cross between the Berkshire and Tamworth or the Yorkshire and Berkshire. Such a cross makes an easy feeder and a good bacon hog.

### Don't Overfeed the Pigs

Many farmers who never think of giving their horses or cows more than the animals will eat up clean will, the animals will eat up clean will, when it comes to feeding the pigs, give them more than they will eat. Of course or excreteding is not good feeding. A pig fed in this manner will soon lose his appetite and thereafter it will not do its best. A safe rule in pig feeding is never to give more than

"We have come across several cases such as this where, due to carolessness in drawing up deeds, honest purches ors of property have been subjected to a great deal of worry and sometimes to a great financial loss. Before buy-ing property it is wise to be sure that Ing property it is wise to be sure that the seller has a clear title to the estate. A few dollars paid to a lawyer for investigating the title, if you are not in a position to do it yourself, is money well spent."

Farm and Dairy is one of the cleanest and brightest periodicals that enters our home. It is full of practical hints and information, and is conspicuous by the absence trashy and unreliable advertisements.—St. Clair unreliable advertisemen Adolph, Perth Co., Ont.

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ciency and reliability of the "BAKER" are "known quantities" in keeping with our past record of over 30 years. We invite honcet comparison in every way. The wheel is built on a hub re-



with our past record of over 30 years, which our past record of over 30 years, way. The wheel is built on a hub revived on a long stationary steel spin-did as a result less friction. It has a result less friction in the same of the sa THE HELLER-ALLER CO. Windsor, Ontario

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### Corn's Advantage

W. C. Palmer

Corn has an advantage over the small grains. Its growing period is during the warmest part of the year. The soil is then warmed up. This results in more plant food being made available. The days are then the longest and the sun shines the warm All these things are needed by a plant to make growth. From this it becomes plain why corn should produce more food on an acre of land than a crop that does not take advantage of the whole growing sea-

Corn has another advantage, that is that its nature of growth is such that it can be cultivated. Many may think that this is a disadvantage. The cultivation kills weeds and ceps the moisture from escaping While corn uses as much moisture as a grain crop the cultivation given it reduces the amount of moisture that evaporates from the soil—in this way making the corn crop a moisture

The corn crop has the advantage of season of growth, enabling it to produce more per acre than the grain crops, and the advantage of lending itself to being cultivated, which saves moisture and kills weeds, making it both a good producer and a crop to prepare the land for other crops.

### Potato Scab

Potato scab is one of the easiest diseases to keep under control. The method usually employed is to dip the seed potatoes in some disinfecting solution. Two kinds are used, the formaldehyde solution and the corrosive sublimate solution.

THE FORMALDEHYDE TREATMENT

The formaldehyde dip is prepared by pouring a pint of 40 per cent for-maldehyde into 30 gallons of water. Dipping the potatoes in this solution for two hours will destroy the scab.

Thirty gallons of the mixture will treat about 30 bushels of potatoes. It can be renewed by adding new mixture made up in the right propor-tions as the old is used up, but it is probably best not to use less than one gallon of the solution to each bushel. Large amounts of mud should not be allowed to accumulate in the barrel The barrels should be kept covered

While the formaldehyde solution is somewhat poisonous, if taken inter-nally, and would kill if enough were taken, it is far less deadly than the corrosive sublimate solution, and is also, on account of its peculiarities, less likely to be taken by mistake. ordinary precautions are observed, there is very little danger of any person or animal being injured through its use; and, from the standpoint of safety, this remedy is vastly more safety, this remedy is vastly more desirable than the corrosive sublimate solution.

THE CORROSIVE SUBLIMATE TREATMENT

The proportions for the corrosive sublimate solution are four ounces of corrosive sublimate to 30 gallons of water. The corrosive sublimate should first be dissolved in about a gallon of hot water before pouring it into the balance of the water required. Dipping the potatoes in this solution an hour and a half will kill the scal. the tubers.

This dip does not lose strength as the formaldehyde dip does; and may, therefore, be used almost indefinitely. The barrels, or whatever the solution is used in, should be kept securely covered, to prevent the evaporation of the water from the solution, which would make it stronger, and to prevent animals from drinking it.

DEADLY POISON Corrosive sublimate is one of the and its use must be most carefully guarded, to prevent animals from drinking of the poisonous solution or eating the treated potatoes. On account of the danger associated with the use of this remedy, the formaldehead is incorrectly incorrectly or the careful of the control of the control of the careful of hyde dip is generally far more desirable

ordinary 50-gallon barrels are convenient for dipping. Any number may be provided, according to the needs. One barrel should suffice for handling from 12 to 20 bushels a day. It is usually most convenient to put the potatoes in sacks for dipping in the barrel containing the solution. Potatoes must be cut and planted soon after dipping. If not, they should after dipping. If be spread out to dry

## Tile Drains-Early Seeding

John Fixter, With Commission of Conservation, Ottawa, Ont.

When I visited Essex County cently the farmers were plowing their tile-drained lands. Other farmers in tile-drained lands. Other farmers in the same neighborhood who have not yet caught the tile drainage fever were sitting around wondering when the water would dry up and allow them to get in their crops.

The beauty of it is that the farmer who has drained land is conserving that moisture for the use of his crops later on when the other farmers were waiting to dry out and be carried away into the atmosphere. We all know that moisture conservation is one of the principal factors in suc-Waiting for cessful crop production. oil moisture to be carried away by the sun is certainly poor management.

If the farmers of the more easternly ections had been able to visit Essex early this spring and had seen the advantages of tile draining in earlier seeding, there would soon be tile yards over every county in Eastern Ontario

### Breeding Crippled Mares

All crippled and "heavy should be bred in the fall of the year soon after the hot weather has passed. This will bring the foaling time of the crippled mare in the fall of the year, and not cause her to carry a heavy fetus through the winter and make it difficult for her to get around. It is usually all a crippled animal can do to skirmish for feed, without having an extra heavy body to interfere with her locomotion. Many horses are loose together during the fall and winter, and if the crippled mare is not active she is very liable to be kicked or hurt to the extent that abortion would oc-cur. On the other hand, if a mare delivers a colt in the fall of the year, the owner will take her up and take care of her because it will be profitable for him to do it.

A CAUSE OF ABORTION

Occasionally a "heavy" mare will fertilize during the spring season and carry the fetus to maturity, but many of them are fatigued during the hot weather to the extent that an aborweather to the extent that an abor-tion is the result. After one of these mares has lost a colt or two it is very difficult to get them to carry a colt to maturity, but if they are bred in the fall, and shown to be in foal the follow-ing apring, the owner usually feels that it will be better to turn the mare out to pasture where, if she is not interfered with, she will probably carry the colt to maturity.

There are a lot of crippled and heavy" mares bred every spring from "heavy" mares bred every spring from two to three times that get absolutely no results whatever. These same mares can be put off and bred in the fall with good results. Some of them will need treatment. They should be treated with the iodine treatment and most deadly poisons known. It must be kept out of the reach of children, fall.—American Breeder.

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George Keen, Hon. Secretary, The Cooperative Union of Canada, Brantford, Ont.

This new land was settled by men who sought to escape the old feudal-ism; the monopoly in land, the power to tax industry without labor.

to tax industry wintout labor.
Within the last two generations a
new feudalism has gradually developed more far-reaching than the old, the
feudalism of money. Vicious as was
the old feudalism, it was less dangrous owing to the sense of indiidual responsibility of landowners and the fixed circumscribed nature of monopoly

the monopoly.

The new feudalism, on the contrary,
is impersonal and, therefore, irrepossible. It is illimitable in its
operations because of its more fluid
character. The new feudalism depeads for its success upon the elimistion of competition and the cooperative activity of a 'ew people who
control money and, through the same,
every line of industry.

TARMO ON ALL BURSON.

TAXED ON ALL SIDES

By an arbitrary authority, alien to his industry, the farmer is taxed on the commodities he produces. He is taxed in a similar manner when he is taxed in a similar manner when he seeks to exchange the value of his farm produce for the merchandise he needs for his own use. The farmer's money is cooperatively operated to tax him, by its employment it warious ways, for the advantage of "special interests" which seem, at times, sufficiently strong to control legislatures and generators. and governments.

If gravitation towards virtual slav-

ery is to be stopped, the farmer will

### Test all Seed Corn

There's no use sowing dead seed corn. But that's what many of us are going to do this spring if we don't look sharp. Last year was a poor one for

seed corn. It didn't properly mature. The germinating power of much of it is low. If we plant that poor seed we farmers as a whole stand to lose thousands upon thousands of dollars. The loss to each of us will be more than we can

What is more. It isn't neces-What is more, it isn't necessary to lose anything. Let us test our seed norn. If it is weak get better, if we can't do that, use more seed per acre. But let us know what we are doing anyway. Test every ear of it.

be compelled to appreciate that the days of competition have gone for ever. The question for him to decide is whether or not the economic policy of the future to be for the farmer's benefit or to contribute, as above described, to the farmer's ruin.

### WE MUST WORK TOGETHER

When this one concrete fact crimes home to the farmers of Canada, when they learn to eradicate foolish sus-picions of each other's motives and good intentions, when they are presood intentions, when they are pre-nared in full confidence and mutual sumpathy to act together for each other's advantage, instead of in com-pation to the loss of them all, then will down a brighter day, and they will commence to enjoy a success the like of which the world has never

In pointing the way to the grand haven of cooperation, so successfully introduced in other agricultural counties, and the hone of the future in this Dominion, that section of the arricultural press of Conada which is remained velocted to the interests of the farmers is doing a noble and like Stock Convention at Ottawa.

### The Cost of Tile Draining

Jas, Marshall, Wentworth Co., Ont.

I will give the approximate cost of draining one of my own 12-acre fields. The branch drains in most of this field The branch drains in most of this field are 25 feet apart in parallel lines. Some of them are 30 feet apart. There are four, five and six inch mains in low places. The branches are two and a half to three inch tiles. They join the main drains in a elanting direction. There were 2,602 feet of five and six inch main drains that



### The Kind of Premiums We Offer

Diotime Cornucopia, the pure-bred Hol-stein calf here illustrated, was won as a premium by W. E. Watson, York Co., Ont., for securing 45 new subscribers to Farm and Dairy. This heifer calf was bred by C. R. Gies, Heldelberg, Ont. Mr. Watson is highly pleased with his prem-

had been placed in low ground years before the branches were put in. We afterwards placed 18,563 feet of smal-ler tile, making 21,170 feet of tile drains in a 12-acre field. The last draining was finished between Novem-ber 17th and December 21th, 1897.

I cannot give the exact cost to a cent, but the labor was from \$240 to cent, but the labor was from \$240 to \$250, and cost of tile about \$220 for 21,170 feet, or about \$40 an acro. I have several other fields drained like this. Every spring and after heavy rains I find dry strips over every drain. I see no reason why these drains will not continue in working order for acro. order for ages.

### More Live Stock Needed\*

Prof. M. Cumming, N.S.A.C., Truro, N. S.

In speaking of Nova Scotia and the other Maritime provinces we speak of a country where in many cases the of a country where in many cases the soil has already been exhausted of its natural fertility and we must now depend on live stock to maintain the productivity of our farms; and we need it badly. Last year in a season of drought it was a matter of uni-versal comment that, on live stock farms in the Maritime provinces crops

farms in the Maritime provinces cross were up to the average, while on others, without live stock, crops were almost a complete failure. I can recall farm after farm where as a result of adopting a system of farming that included a large number of live stock the annual production had been doubled and trobled. I think of one young farmer in particular who be a complete the province of the provinc more live stock.

more live stock.

WHERE PROGRESS IS MADE.

Our biggest development in live stock has been in dairy cattle and heavy horses. In dairying we take second place to no part of Canada. The Provincial Government has endeavored to assist the dairy industry by importing dairy sires of desirable breeding. We have found that the cheapest stock we have bought has

Cooperation the Economic Hope of the Farmer profession.

| Description of the Farmer profession of the place of the place

only. So well adapted are our provinces to dairy cattle that beef cattle have larely held their own. We are importing more and more beef every year. The reason is plain to be seen. The dairymen are making the most money. If we are to produce our own beef the first thing needed is an improvement in the milking qualities of the hard breeds. the beef breeds.

### A Tribute to the Cow

The modern dairy cow, figuratively speaking, is the harbinger of peace and the vanguard of agricultural prosperity. When fed and cared for properly she fails not to yield her for properly she fails not to yield her monthly stipend, or to replenish the soil with her waste products and thus completes the cycle of perpetual pro-duction. She not only clothes and feeds the farmer's family, but she paves the way for the prosperity of future generations; she robs not t'

An up-to-date cow is a milk-mak-An up-to-date cow is a milk-making machine and requires a special type of machinist for the highest achievement. It is just as necessary to develop dairymen as it is to develop dairy cows. It almost seems at times as if the capacity of the dairy cow has been inordinately developed and the dairyman often suffers by comparison in falling far short in measuring up to his requirements.—Dr. James Withycombe, Oregon.

## Edward Charles Ryott

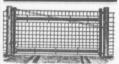
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FOR SALE—An A1 Potato Planter, nearly new, of Aspinwall Mfg. Co. make. Just planted 20 acres of potatoes. The kind used at the O.A.C. I guarantee it O.K. Have also a potato cutter for sale.—Geo. W. Anderson, Rossmore, Ont.



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HAVE you good steel gates on your farm? Get rid of wooden and cheap iron gates which must be continually fussed over and mended.

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Clay Free GateS

Will list a life-time: will not bend, break or sag; cannot rot, burn or blow down; are always easy to work; life orer snow in winter; keep 20,000 flay faites sold last year. Clay Gates sold tast year. Clay Gates Send for illustrated price list.

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You can use this razor with safety and comfort.

Once you use it you will never do without it.

"Say friend! Ever use a Safety Razor?" "No, I never felt I could afford \$5.90 for one."

"I never could afford to give that much for one either, but I noticed recently that I could get one free from Farm and Dairy. I sent for one, first getting them two new subscriptions to their weekly farmers' paper, and I tell you it's great."

"It's a Gem Junior Safety Razor" and is highly nickle-plated and oilshed. It shaves so easy I could hardly believe myself that it was taking if the whiskers.

"And it has seven genuine Damaskeened Gem Junior Blades and a co-bination stropping and shaving handle, so I can keep them sharp and in a for shaving indefinitely."

Brother Farmer! We have a Gem Safety Razor outfit for you in a substantial velvet lined box, just an described, and we'll send it to you in a substantial velvet lined box, just as above; it will be sent to subscriptions to Farm and Dairy at only 18.00 each.

This is a most useful. satisfying article and will prove a delight to any man who

We're glad to be able to offer it to you this way. We know you'll like it and tell your friends about it.

See right away about getting two of your friends to subscribe to Farm and Dairy, and then write us for your Safety Rasor.

Plan to-night who you will get to take Farm and Dairy — then see them about this matter first time you can.

## Farm and Dairy Peterboro, Ont. **Zampaniamini**

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## FARM AND DAIRY

(14)

AND RUBAL HOME

Published by The Rural Publishing Com-pany, Limited



 FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District, Quebec. Dairymen's Associations, and of Western Ontario, and Dediora District Quebec, Dairymen's Associations, and o the Canadian Holstein, Ayrshire and Jer any Cattle, Products' Associations.

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### FARM AND DAIRY PETERDORO ONT

### LIGHT ON AN IMPORTANT PROBLEM

Good salesmen secure salaries much in advance of what is paid peope of equal ability engaged in most other lines of work-in manufacture and production

There is a reason for this; it is because almost any one can manufacture and produce, but it is really a difficult matter to sell and to sell at a good fair profit.

As farmers most of us are making at least a fair success of production. In many cases we fall far short of our possibilities when it comes to selling.

Realizing the great need for education along the line of selling, and to meet the thirst, which obtains almost everywhere, for information on salesmanship. Farm and Dairy has arranged to conduct a department under the heading "Selling." To conduct this new department, we have secured the services of an expert on salesmanship in the person of Mr. Edward Dreier, until lately connected with the business management of the "Business Philosopher." but now Salesmanager for the Metal Shingle and living. Siding Co., of Preston, Ont.

The first of Mr. Dreier's articles appeared on page five of Farm and Dairy last week. The second article is on page two in this week's issue under the new department heading.

In order to make this department of greatest value to all our people our readers are invited to ask us questions concerning their selling problems. Suggestions as to topics for discussion, and all questions, will be welcomed and answered promptly through this new department of Farm and Dairy, which touches a most vital interest on the part of all our readers

### WHY BLAME THE FARMED?

"Farmers are accountable for the high cost of living!" That is an old cry in our cities. The average city dweller seems to be under the impression that we farme a are rolling in wealth. The city editors who know nothing about farming are telling us that we are not producing enough. that did we make our farms live up to one-half their possibilities food would cost only half what it now does and the cost of living problem would be solved satisfactorily - to the city people at least.

Cannot this line of reasoning be applied to city industries as well? For instance, the cost of woollen clothing has gone up considerably in recent years. Is it not, if the first premise is correct, quite reasonable to state that the high cost of woollen clothing is due to the fact that our woollen manufacturers are not producing as much as the capacity of their factories would warrant. In this latter case our city brethren recognize without any trouble that the woollen manufacturers are producing just enough of their goods to make the highest profit. If they produced goods in excessive quantities, prices would be reduced, profits would go down and the

concern would have to close its doors The case as it applies to farming is exactly the same. If we farmers as a whole were to produce in sufficient quantities to satisfy our city friends prices would go down to such a level that our business would be even less profitable than it now is. If city people would have us produce more they must pay more for the goods that we produce, for we like all other classes of the community, have to live, and our production of goods is determined by the money we can make out of it. The high cost of living must be accounted for in another than underproduction of farm produce. The underlying causes of high prices Farm and Dairy is explaining in the series of articles being run on page four each week. Did we farmers and the working men in our cities have a proper understanding of the economic conditions under which we live we would not be so bitter towards each other, but would work together to guard our common interests against

the attacks of what we may call the man traverses the distance 'financial interests.' It is at their handed; she carries pails of ater or doors that we must lay the major portion of the blame for the high cost of

### NOT MEASURED IN DOLLARS

The cash income from any farm must come from what is sold from it But we dairy farmers have an additional income that cannot be measured in dollars and cente

Where the ordinary crops are raised and removed for sale each successive crop takes away a portion of the soil fertility, and, be it wheat, corn, or oats, each removal of a crop means the taking away of some of the best of the soil. Where cows are kept and legumes are raised for part or all of their feed, this soil fertility can not only be saved, but, by a careful attention to the details of rotation, actually increased through this process.

The grain-raiser may manage to make both ends meet for a whileit is only a matter of time, and often a very short time at that-until instead of a fertile farm, he will only have a patch of desert left. dairymen, who have been surely. though perhaps slowly, increasing our bank accounts, have also made a lasting deposit in that best of all banks, our own farms, which will be an untold value to us and our chil-

### COUNTY REFORESTATION

Conservation ideas are gaining ground every day

As a result of the Act passed by the Ontario Government a year ago, empowering municipalities to engage in forestry work, the county of Hastings has taken steps to acquire waste lands for the purpose of reforestation.

Several counties in Eastern Ontario are now undertaking the reforestation schemes. These waste lands were being rapidly acquired by private parties for personal profit, but of late councils have awakened to the fact that these lands might just as well be reforested under municipal supervsion and the profits to accrue be retained for the benefit of the whole people.

Pullic sentiment in favor of reforestation has developed rapidly since Farm and Dairy, beginning with four years ago, agitated for provincial aid in county reforestation schemes. At that time the provincial government refused to consider a proposition for loaning to the counties of Northumberland and Durham money to be spent on the reforestation of the sand lands of the united counties. Now the work is extending to other counties and has the approval of all.

TRAVELS OF A FARMER'S WIFE A walk of twelve feet and back, across living-room or kitchen, twentytwo times repeated, makes a mile. Repeated thus often every day in the year-as happens with hundreds of farmers' wives-it equals a journey of three hundred and sixty-five miles in length and in the strain it puts on the woman's strength and energies.

milk, loads of dishes, basket of such plies, often the baby. Suppoing he average load on these short trips to be only ten pounds, it amounts in year to over forty tons. When to these in-door journeys is added the frequent trip to the distant well still too often demanded, even in the presence of cheap methods for supply ing running water in kitchen and bath-the wonder is that the wife and mother 'lasts' as long as she does

Why not, where such avoidable journeys are endured, try a little planning and re-arrangement almost always practicable-which may duce the indoor travel to one-half a even one-quarter the present amount Why not, above all things, at case set about bringing the well-water in the house?

"This is an alfalfa year," writes one of the largest seed dealers in Canada to Farm and Dairy. "Orders alread: received for alfalfa sed

An Alfalfa are much in excess d those received in the Veer whole season last year

The Field Husbandry Department at the Ontario Agricultural College receive more inquiries about alfalfa culture than of any other crop. The editors of Farm and Dairy find the alfalfa is being talked about even where they go. More and more farmers are growing this great crop ever year. From present indications 1919 will be a banner year in acreage sown number of need farmers seeding and in interest taken in the plant. Noon of us can afford to ignore alfalfa long

er. We must grow alfalfa if we won! keep in the running and be numbers among progressive, intelligent farm

We can all remember the time when as we asked each other what kind d a crop we had in the orchard, we referred to the hay or

A Good grain growing then Cron and not to the fruit We did not then realise that a crop of apples takes just a much out of the soil as a crop of grain. We tried to take two crop at once and got poor crops of both Experience has now taught us that the fertility that would yield u twenty-five dollars or forty dollars at acre in grain or hav, if turned over to the apple trees and supplemented with a little extra cultivation, will return one hundred dollars or more per acre. We farmers can see a but gain as quickly as any one. Those of us who have given the matter any thought now direct all the fertiliy to the production of one good crop apples. We know that we cannot a ford to grow any other crop in the or chard. Those who are still following the two-crop plan are reaping the reward in poor crops and small profit both on the ground and above it.

If you have debts to pay, forget Furthermore, it is seldom that the wo- them not until you have paid them

Cre Farm A reader ermnathy w and let it On this s farmers get for that m and our dis that violate government The farm west have

> You can mer when He is sh it is safe to

In this PAGE AD fourth in a FROM A of nure bre Gordon S. ford Park. ad similar EACH IS FOR A YE

This ad and Dairy only \$11.7 Let's figs Mr. Goodes His stor least 2,000 Holstein ca

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### Credit and Privilege

Farm and Ranch Review A reader berates us for not showing sympathy with the suggestion that the provincial governments borrow money and let it out to farmers at reduced

on this subject we are torn in our opinions between our desire to see farmers get money easily and quickly, for that means our own prosperity, that violates more sound principles of covernment.

government.

The farmers' organizations in the west have declared in favor of the

### XXIX

You can get a tip from the farmer when he advertises. He is shrewd. When he moves

it is safe to follow. In this issue appears A 1/4-PAGE ADVERTISEMENT, the

fourth in a very interesting series FROM A FARMER—a breeder of nure bred Holstein cattle-Mr Gordon S. Gooderham, of Bedford Park, Ont., who has reserved similar space to be used in FACH ISSUE EVERY WELK FOR A YEAR.

This advertisement in Farm and Dairy in 14-page space costs only \$11.76 per issue.

Let's figure what it will do for Mr. Gooderham

His story will be read by at least 2,000 breeders of pure-bred Holstein cattle, all of whom take Farm and Dairy.

Upwards of 12,500 other breeders of dairy cows will be influenced by his advertisements

Mr. Gooderham' and his Holsteins will become known throughout the length and breadth of Canada, and in the United States.

He will get buyers at satisfactory prices for the superior stock

he has to sell. His advertising, as it proceeds from week to week, will build for him in a cumulative way that will develop a force well nigh irresistible causing people to want and then to buy his Holsteins, which will make money for them the buyers -- because other people will want to buy the stock, and it will be ready of sale.

For this great service for a year Mr. Gooderham pays much less than the value of one of his best animals—this to insure profitable sales for his surplus stock and sell his other 100 if need be.

-Surely a wise and paying investment!

You, Mr. Manufacturer and you, Mr. Brother Breeder of good, pure-bred live stock, may well take it unto yourself to adopt Mr. Gooderham's plan.

Get in a weekly appeal to the nearly 15,000 dairy farmers we reach with Farm and Dairy. These well-to-do people are the ones with which it will pay you to do business.

And when your advertisement is in Farm and Dairy it is in

"A Paper Farmers Swear By."

single tax as a method of raising revenue in place of the tariff, and of course the adoption of the single tax would also tend to make money cheap er by forcing money into legitimate channels instead of being used for speculating in land

speculating in land.

Also a party or organization that
advocates the single tax proclaims its
opposition to any special priyilege
and the securing of money for farmers' use by the province would be as
much a special privilege for the
farmers as the securing of money for
the railways upon the credit of the province is a special privilege for the railway companies.

We must make progress in one di-rection only, and that is toward the single tax or the raising of revenue out of a tax upon the unearned in-crease in land value, and this will do away with the money scarcity. Any other scheme is only a patchwork. If the government adopts this proposed plan of providing farmers with cheap money it can only be compared cheap money it can only be compared to a drop of cocaine to an aching tooth. It will relieve a pain tem-porarily, but it cannot in the nature of things cure the evil

### Beware of Loose Collars

Great care should be taken in the selection of the horse's collar. No horse can do its best with a poor-fitting collar. It not only lessens the efficiency, but usually causes sores on the horse's neck.

the horse's neck.
When you buy a collar for a horse
get one that fits its neck as near as
possible. Soak the collar in water
and work it on the horse while it is
wet. This causes the collar to change
shape, fitting all the inequalities of
the neck. This may have to be done
two or three times, as the horse's
neck changes shape.

FOR A BORE NECK

FOR A SORE NECK

If the horse's neck begins to get sore, it may be toughened by washing with powdered alum and water, or oak bark and water, one or twice a day after the collar is removed. If many sores develop they should be treated surgically by a competent

Ointments, as a rule, are not to be recommended for open sores, as they recommended for open sores, as they gather dirt and produce proud flesh. Soft swellings appearing on the horse's collar bed in the spring are usually filled with fluid and should be opened immediately at the lowest point. Otherwise they will form hard swellings difficult to treat.

### WHERE DRAFT SHOULD COME

Another important thing is the regulation of the draft. The draft should be at the centre of pressure on the horse's collar bed. If this is too low, it causes the upper part of the collar to rub back and forth, and if to high the lower the collar to be and forth, and one collar to rub back and forth, and it too high the lower part rubs, causing soreness. The inside of the collar should be kept clean and the mane prevented from getting under the collar.—Dr. R. R. Dykstra, Kanssa Agri. Col.

### Seeing the Sights

An observant person sees some funny sights in a grocery store.

He can see "the cod fish," "the brussels sprout," "the tapioca flake." He may also see "the mince meat,"
"the taleave," "the ginger snap,"
"the stove polish," "the sugar scoop,"
"the year cake," "the corn starch,"
"the honey comb," "the cinamon bark.

And he will observe that the tea is a great "mixer," the coffee gets "roasted" all the time, the cucumber is usually in a pickle, and the sardines are "soused."

# DE LAVAL CREAM SEPARATORS

More Than 1.375.000 Now In

## Those Who KNOW Buy De Laval Separators

Creamerymen-Because they are experts in the handling of cream and know by long experience that the De Laval skims cleanest and wears longest. That is why 98% of the World's creameries use the De Laval exclusively. Experienced Dairymen—The De Laval is the universal favorite among big dairymen, They know that no other separator will give them such satisfactory service.

Old De Laval Users—Whenever a man who has used an old model De Laval decides to purchase a later style machine he invariably buys another De Laval.

Men Who Investigate - If anyone takes the time to investigate the merits of the various cream separators, either by finding out from other users what kind of service their machines have given or by testing other machines

out against the De Laval, the that his choice will be the Easiest De Laval. to turn. More De Laval machines easiest to

are in use than any other make. There is a reason. wash. skims the cleanest Any De Laval Agent lasts the longest will tell you

SOONER OR LATER why, or write YOU WILL BUY A to the nearest De Laval DE LAVAL office below.

DE LAVAL DAIRY SUPPLY CO., LIMITED 173 WILLIAM ST. MONTREAL 14 PRINCESS ST., WINNIPEG

# The Garden Beautiful

DO you love flowers, nice lawns," good vegetable gardens? These have a far-reaching influence for good on yourself, your family, and your friends about you. They add to the joy and the worth of living.



We have arranged for you to get a liberal Free Education on all things pertaining to amateur Horticulture. the culture of flowers, gardening and fruit growing.

We will send you free for one year The Canadian Horticulturist, a magazine which treats of all these things in a most interesting and helpful

All we ask you to do in return for this premium is to get us only one new subscriber to Farm and Dairy at only \$1.00 for a year.

Now that May is here, how sice it will be fer you to have The Canadian Hericulturis right way and coming every month to fell you more beautiful, your garden more varied and preductive, your fruit trees bushes and orchard more profitable.

See one of your neighbors or friends right away soon about taking Farm and Dairy for a year. Then send in his subscription, \$1.00, and we will send you absolutely without cost to you, The Canadian Horticulturist.

Circulation Department, Farm and Dairy, Peterboro, Ont.

Why Test Daily? By F. Odell

When a creamery is taking composite samples with a dipper the takes

delivery, regardless of the amount of

these composite samples every two weeks or once a month, does it not

show lack of good Lusiness manage

You may ask why. The answer would be: In the first place, the

samples taken are wrong. Where a creamery takes a sample of cream

creamery takes a sample of cream with a dipper the sample taken each

time is the same amount, regardless of

the large or small amount delivered, and regardless of the thinness or

sample is wrong; and does the butter-maker know for a certainty whether

the patron receives pay for the cor

rect amount of butter-fat he de-

samples are usually kept in tin-top

sample jars, and in mostly every case

they are kept two weeks or one month on a rack or shelf in the receiving room. The evaporation where

escape of moisture from the sample. After the samples are taken they must

evaporation where samples are kept in this manner is very great. This fact is due to the

In the second place, these composite

thickness of the cream.

the cream, and then tests

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Then, your

thickness of

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### A Circular to Patrons

Cream grading is no longer an experiment in western Canada. In circular recently sent to all of patrons, Mr. P. Pallesen, mar and proprictor of the Calgary Central Creamery, talks to his patrons as follows about his ideas on grading

"This year I am going to grade the ream closer than ever. The grading cream closer than ever. system is not an experiment but a strictly business proposition which worked out to the advantage of both worked out to the advantage in both the farmer and the creamery man. I can get the highest price only for strictly Number One cream. If you don't want to take care of your credon't want it; let the other fellow have it. This year I shall be able to have it. pay an extra price right along for sweet cream for city delivery."

sweet cream for city delivery.

Mr. Pallesen expects his patrons to take care of his cream but he makes it worth their while. In the same circular he quotes the prices paid in each month of 1911 for three grades of cream—Extra. No. 1 and No. 2, There is a premium of one to two tra and No. 1. and of two cents for ex-tra and No. 1. grade over cream of No. 1 grade over cream of No. 2 grade.

BOOST FOR WINTER DAIRYING

All creamery men would like to have their patrons go in more exten-sively for winter dairying. Here are a

Making an Extra

the land. High-producing cows pay you an extra profit

over average cows-and the high-producing

SHARPLES

**Tubular Cream Separator** 

will pay an extra profit no other separator can pay.

This is because Tubulars have twice the skimming

force, skim twice as clean and produce the finest

velvety cream. This extra Tubular profit appeals

strongly to shrewd dairymen and business men. One instance, out of many is the Free Masons'

Like other keen farmers, you are after extra

pays well to keep cows on wheat, fruit and other farms to enrich

Home shown above, which is located at Windsor, Nova Scotia.

Home snown above, which is located at vinusor, Nova Scoula. Reverend J B Merrill, superintendent of the home, while treasurer of a well-known creamery, discarded a disk machine for the Tubular. The simple, sanitary Sharples Dairy Tubular, which contains no disks, is the machine which does the work for this well-known home and its guests.

positively guarantees Tubulam forever. Write at once for Catalog 283 and learn about the extra TUBULAR The Sharples Separator Co. Toronto, Can. Winnipeg, Can.

Remember that the oldest separator concern on this cortinent tively guarantees Tubulars forever. Write at once for Catalog 253

Rich land pays you an extra profit over poor land. It

second second few of the arguments that Mr. Pal-Creamery Department

Butter makers are invited to send our butter makers are invited to send our butter makers are invited to send our butter makers are invited to send to sak questions on matters relating and suggest subjects and suggest subjects and suggest subjects are to Creamery Department.

If we of the arguments that Mr. Pallesen uses used uses used use uses used use in which is more extensively for winter dairying:

"2. You will have a regular income letters to Creamery Department."

all the year.

"3. You will keep up the fertility of your farm.

"4. You will have better time to

"5. You will have better stock.
"6. You can keep your hired man
the year round."

Pretty nearly covers the whole thing, doesn't it The circular such as this sent out to all the patrons is bound to have a good educational in-fluence. But Mr. Pallesen does not ask his patrons to listen to him all the time. On the back of the circu-lar are extracts from several letters that he has received from satisfied patrons telling him how well they are pleased with the service rendered the Calgary Central Creamery. T circular idea is capable of wide ap-

### Make Scales Compulsory

Alex. MacLachlan. Norfolk Co., Ont. Why should these things exist? Why not make it compulsory to use scales and put every one on the test sheet where they properly belong, and every patron the proper amount of butter fat contained in his cream. With the pivette more overrun is ob-tained, and in this every patron shares alike. But why have so much overrun? Is it not better to give the proper test and not have so much over run? If all creamery men would adopt the scales for testing I think it would do away with a great deal of this d

satisfaction which we hear of from satisfaction which we near of from patrons, and particularly the ones who are producing rich cream. Let us get away from this pipette method, which has been weighed in

the balance and found wanting. Get one. The pipette is as much behind the scales for fairness to patrons as the oil test is behind the Babcock or for getting the quality of cream as the individual can as compared with the tank system.

### Pasteurization and Starter Geo. H. Barr, Chief Dairy Div., Ottawa

(Continued from last week)

I am aware that the quality of the cream at the Renfrew Creamery is better than at many cream gathering creameries, and, for that reason, we were perhaps not able to get as bad to experiment with buttermakers handle. Some of it was, however, as bad, I think, as anyone would care to receive. On three occasions, we selected the worst flavored cream delivered to the creamery.

The flavor on the different elected might be classed as selected might be classed as stale cream, bitter, cowy, rancid. The average temperature of the cream when received was 67 degrees, the acidity .54 per cent and the fat 28.16 per cent. The following table shows the average the average score on the butter from different methods of treating this cream at the creamery:

receive proper care until they are tested. The reliability of the test depends just as much on the care of TABLE IV.—AVERAGE SCORE ON THE PLAVOR OF THE BUTTER FROM TAINT. ED, SOUR CREAM, CHURNED MAY 19th, JUNE 20th AND JULY 12th.

Age of	Raw	R	aw Cream	Pasteurized	
Butter 2 weeks Nov. 1st	Cream 40.50 36.12	10 per	cent Starter 41.66 37.44	Cream 42.08 38.88	Oream 10 per cent Start 42.50 39.15
Difference	4.38 Average	of all	4.22 the Scores.	3.20	3.34
	38.75		39.81	40.73	41.10

sampling.

These figures show that there is a | the samples as on the proper way of decided advantage in parteurizing tainted and sour cream, and a further advantage in using a starter in the pasteurized cream, as the pasteurized and starter cream butter is almost as good in flavor on November 1st as the raw cream butter was when two weeks None of the raw cream butter scored above 36.5 points in flavor on November 1st. None of the pasteur-ized lots scored under 38.5 on the same date. One lot from pasteurized cream, with starter added, scored 40 points on November 1st.

### YIELD OF BUTTER

In making a comparison of the yield of butter, the same cream and exactly the same weight was used in the two lots compared. was done as carefully as possible. and

the results should be fairly reliable. In 18 churnings each of cream with out starter and cream with 10 per cent starter added, there was practically no difference in the yield of butter. In the same number of butter churnings of pasteurized and unpasteurized cream, the loss in pasteurizing was .78 per cent. In nine churn-ings each of pasteurized cream with and without starter, the loss in the lots with 10 per cent starter added was 1.04 per cent.

In four churnings each of pasteurized sweet and sour cream (.27 per cent and .51 per cent acid) the loss in pasteurizing sour cream was 1.01 per cent.

MOISTURE IN THE BUTTER

The following table shows the average per cent moisture in cream treat-ed in four different ways, nine churnings in each lot:

CONDITIONS THAT ARE WRONG What do we find at creameries there composite samples are taken In warm weather the sample jars all mold on the inside. In winter, dur-ing the extreme cold weather, samples freeze solid. In either case how the sample in question going to give accurate results?

Where sampling is done in this manner it is a question whether the buttermaker can acquire his proper amount of overrun. One per cent evaporation means about three per cent loss in the overrun. Two per cent evaporation would mean about six per cent loss. Experiment sta-tions have shown that where samples are kept in tin-top jars in the re-ceiving room, where they are exposed to the air and high temperatures. they will evaporate from two to six cent

We believe the buttermaker should know what he is doing each and every day. He should know how many pounds of butter-fat he receives and how many pounds of butter he makes from it. The dairy industry is de-veloping more and more each year, and the rising scale points to the when it is necessary for the buttermaker to do these things as necessary as for a bank to know its daily transactions. Is not the creamery business of as much importance as any other business? It would seem that other business? It would seem that daily testing is the most reliable method to follow.—Creamery Journal.

The first rule in the handling of dairy products is cleanliness; the next is coolness.

Threshes Canada Field Peas. Cowpeas and Soy Beans from the mown vines, breaking less than 2 per cent. Also threshes Wheat, Oats, etc. "The machine I have been looking for 29 years". Prof. W. F. Massey. "A machine that will meet every demand. "Prof. H.A. Morgan, Tonn. Experiment Station. Northing like it.

Highest Toronto prices paid for Gram
delivered at any Express Office.

WE FURNISH CARS MEEE
PAY ACCOUNTS FORTMIGHTLY
ENGAGE MAN TO COLLECT AT
TO COLLECT AT
TO COLLECT AT
Write for particulars.

TABLE V.-MOISTURE IN THE BUTTER.

Raw Cream Pasteurised Cream Pasteurised Cream 10 per cent Starter 13.80 per cent 14.32 Cream 10 per cent Starter 15.50 per cent Starter 1

\*\*\*\*\* Cheese

Makers are 122222222

May 16, 10

Early Cl A. Crawfo Oxford Count onor of being be Canadian ch was in Oxfor sking was firs t was in Oxfor ociation was t was in Oxford ssed at the I sking the Pro the Agr

ANUMBE Mr. Hiram I ere in 1833, b er, and cont rd of 100 cov large and si tions held at se were not About 1860 th

mers of Oxfe engaged In 1862 mes Harris un to make ch neighbor ese at their THE PHANES. The pioneer f

hip of Norwich ord and comm tons that year.

The second c nce Lusiness George Gall and commenced first day of Ma ras operated fo were three oth nced making eason of 1865 ctories in Oxf ham, Quebec. were the Piones Oxford, Ingerso Nizorra, built is

Cheese factori rts of the cou sent ahead by that time, and i oxes of cheese In the summe Harris, proprie cheese factory, eese weighing the product of Inger brought to the pressed in a ste arpose. It wanted Buffalo, als

AN INDUSTR

Mr. Edwin was the first m export in the ( arrounding con Ayer came to 1 exported Canad that year. He port Canadian count and has

on and London sold to a firm i

## COWPEA THRESHER

BOOKLET "H" FREE

Koger Pea and Bean Thresher Co. Morristown Tenn., U.;S. A.

## WANTED-CREAM

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THE TORONTO CREAMERY CO., Ltd., Terento

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### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Cheese Department

Makers are invited to send contri-butions to this department, to ask questions on matters relating to cheer making and to suggest sub-jets for discussion. Address letters to The Cheese Maker's Department.

### Early Cheese Making

A. Crawford, Oxford Co., Ont. onford County, Ontario, has the baser of being the pioneer county in the Canadian cheese making industry. It was in Oxford County that cheese making was first brought to a science. was in Oxford that the Dairymen sociation was first organized. And was in Oxford that a resolution was sking the Provincial Legislature to tablish a dairy school in connection the Agricultural College at

Mr. Hiram Ranney, who settled here in 1833, began to make cheese rom a herd of three cows a few years liter, and continued until he had a sifer, and continued until he had a herd of 100 cows. Mr. Ranney was a large and successful exhibitor in the fifties at the Provincial Exhibi-tions held at Toronto, Hamilton, Brantford and London, where his cheese were noted for their fine qual-

About 1860 there were a number of farmers of Oxford who were successfully engaged in home cheese making. In 1862 Mr. George Galloway, James Harris and John Adams benn to make cheese on the associated system, that is getting milk from their neighbors and making the desen at their home dairies.

THE PHONERS CHEESE PACTORY The pioneer factory was built by Mr. Harvey Farrington in the Town-

hip of Norwich in the County of Oxford and commenced to make cheese an June 20th, 1864, and made ten tons that year. Mr. Farrington con-tinued in the cheese business for many

The second cheese factory to commence business in Canada was built by George Galloway, West Oxford, and commenced to make cheese on the first day of May, 1866. The factory as operated for many years. There were three other factories built in Oxford the same year and all commenced making cheese early in the model of the commenced making cheese early in the factories in Oxford and one at Farmham. Outbock. The ones in Oxford ham, Quebec. The ones in Oxford were the Pioneer, built in 1864, West Oxford, Ingersoll, Salford and East Nizorra, built in 1865.

AN INDUSTRY OF IMPORTANCE.

Cheese factories were built in many parts of the country. Cheese making went ahead by leaps and bounds from that time, and it was only a few years until Canada was exporting 300,000 boxes of cheese annually.

In the summer of 1866 Mr. James

In the summer of 1866 Mr. James Harris, proprietor of the Ingersoil cheese factory, made the mammoth cheese weighing 7,000 pounds. It was the product of three factories. West Oxford. Ingersoil and Salford, brought to the Ingersoil factory and pressed in a steel hoop made for that appear of the steel hoop made for that the same of the same factories. It was shown at Sarataga and Builsio, also at Toronto, Hamiltonia and London. It was afterwards said to a firm in England.

Mr. Edwin Caswell, of Ingersoll,
was the first man to buy cheese for
export in the County of Oxford and
surrounding counties. Mr. A. A.
Ayer came to Montreal in 1866 and ayer came to Montreal in 1900 and exported Canadian cheese for others that year. He began in 1867 to export Canadian cheese on his own account and has continued to do so up

to the present time. Cheese sold in the maker in emptying the tank each 1878 and 1879 for five and six cents a pound, the lowest price ever paid in the history of factory cheese. The highest price ever paid for factory cheese was paiu last year, 1911, when 14 34 cents was paid to many of the factories and in a few cases 15 cents was paid

DAIRYMEN'S ASSOCIATION

The idea of forming the Dairymen's Association was first introduced to the dairymen of Oxford in 1866 by Mr. Harvey Farrington, of Norwich,



The Oldest Cheese Maker in Canada

Jas. A. Crawford. Woodstock, Ont., has been making cheese longer than any other man in Canada. He has been personally connected with factory dairying in Canada since its first inception. Read his history of dairying in an adjoining

proprietor of the Pioneer cheese rac-tory of Canada. He pointed out to the dairymen of Oxford the benefits to be derived from such an associa-

tion.

The first meeting to organize the association was held in the Town Hall, Ingersoll, on July 3lst, and at a meeting on August 1st, 1867, representatives were present from many parts of Canada, about 200 altogether. Charles E. Chadwick was the first president of the association and Mr. James Noxon, secretary.

### Precautions in Pasteurization

Pasteurization should begin as soon as possible after the first whey reaches as possible after the first whey reaches the tanks to prevent the development of acid and take advantage of the temperature of 98 degrees before it begins to cool. Care must be taken that the temperature does not rise much above 160 degrees. A higher temperature will precipitate the albumen and cause the whey to be floculent and slimy. A uniform temperature of 155 degrees each day will give good results.

peracure of no degrees each day win give good results.

If possible to avoid, small or large quantities of whey should not be left over in the tank from day to day as this will eventually become sour and

this will eventually become sour and act as a culture in the new whey, rapidly raising the acidity.

The boiler abould be large enough to furnish economically the steam required. Inexpensive results cannot be obtained otherwise. The tanks should be close to the boiler and the pipes insulated to prevent condension of steam before it reaches the whey.

Pasteurization of whey is changed.

of steam before it reaches the whey.

Pasteurization of whey is advocated for the purpose of overcoming many of the difficulties of the whey question, and not as a panaceas for the evils of improperly cared for milk, rusty, old, or carelessly washed cans. In the control of th

teria. Septic tanks or other means should be employed to dispose of wash water and other factory refuse.

The patrons should cooperate with prices.

morning so that only the fresh whey will be in the tank from day to day. One of the methods adopted at many of our larger factories is to have a man hired to measure out the whey each morning; cost about 50 cents a day.—Bul. 183.

### We Need Good Roads

R. J. Rennie, Stormont Co., Ont. I notice that Farm and Dairy is making itself very much interested in the subject of larger cheese factories. It seems that we down here in Eastern Ontario and even some in Western Ontario are away behind the times when we permit small cheese factories to exist in the land.

Probably you are right. The whole tendency nowadays is towards con-centration. But isn't it a discourag-ing proposition to try to haul milk to cheese factories three, four, and five enesse factories three, four, and nive miles off with roads such as we now have. I would just drop a sugges-tion to Farm and Dairy that a good roads propaganda is needed before we start in for larger cheese factories.

## Where Others Are Ahead

G. G. Publow, Chief Dairy Instructor
E. Ont.

The need of better curing of our Canadian cheese was very forcibly im-

pressed upon me in the Old Country pressed upon me in the Old Country last summer when comparing the quality of our cheese with the English and New Zealand. Very few of the cheese from these countries are plac-ed on the market under the age of ed on the market under the age of two months and as a result are mucn better cured, and give better enors-faction to the trade in general and demand about two shillings a hun-dredweight more in price. English and Scotch makers lay considerable stress on having their cheese in bes condition for the market before hav-ing them shipped, and this is one of the factors which enables them to get

a higher price.
A number of merchants complained of our cheese being too heavy. They are not particularly anxious for cheese weighing more than 80 pounds. cheese weighing more than 80 pounds. That weight seems to be the most popular. Some merchants prefer a lighter weight cheese. I also found a few merchants who are anxious for cheese weighing 100 pounds, but they are usually wanted for window advertising purposes, and cheese intended for this purpose require to be particularly well fanished and to have clean sound rinds. Many of our cheese are lacking in this respect and complaint was made that they did complaint was made that they did not strip well.

Our best farmers cannot afford to go on breeding good cows and feeding them well only to have much of their work go for naught through the iner more careless patrons.—Chief Dairy Instructor G. G. Publow, Kingston,

A maker who works to incorporate moisture in his cheese is making a mistake. We must work to expel moisture up to a certain point, but if we then start to incorporate we will get into trouble.—W. Waddell, Middlesex Co., Ont.

One of the outstanding features of the dairy business at the present time is the scarcity of milk and more especially for the larger towns and critics. In many cases the cities are reaching out so far for a supply that it is having a serious effect on some of our cheese factories and creameries of the whole the daily situation is in a comparison of the control of



THE BUTTER-BUYER said-'Your two lots of butter taste all right-but will they keep? What kind of salt did you use ?"

THE FIRST FARMER said-"I don't know-the storekeeper gave me what he had".

THE SECOND FARMER said-"I used Windsor Dairy Salt".

THE BUTTER-BUYER said-"I want your butter. I know all about Windsor Dairy Salt-and the man who is particular enough to always use Windsor Dairy Salt is pretty sure to be particular to make good butter.

I'll take all you make-as long as you use

# WINDSOR DAIRY SALT

Cheesemaker with some experience wanted immediately to work in Ballymote Factory. Highest wages paid to satisfactory man. Apply to

George Kenney, Proprietor BALLYMOTE, ONT.

Cheesemaker Experienced bel-per wanted. Will pay \$140 for season, board included. Apply P. O. Box 190 Campbellford, Ont.

Well DRILLING MACHINES Over 70 sines and styles, for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on siles. With engines or horse powers. Strong, simple and durable: Any mechanic can operate them sadily, Send for catalog, WILLIAMS BROS., ITBACA, N.

WANTED AT ONCE

First-class butter maker to take charge of butter department in modern creamery, state lowest wages and how soon can come, year round job.

Ideal Creamery Co., Portage la Prairie, Man. W. F. DAVEY, Manager

### DAIRY FARMERS, ATTENTION!

Start the season right by shipping our cream to the Walkerton Creamery. We are in a position to handle an alimited quantity of Fresh Cream for

unimited quantity of Fress Cream for Buttermaking purposes and beg to solicit your shipments. We pay by Express Money Order, Post Office Money Order or Bank Money Order, and payments are made every two weeks. Express charges paid on all shipments.

Every can of cream carefully weighed

and tested upon arrival at Creamery. Write for cans and further particulars

Walkerton Egg & Dairy Co., Ltd. WALKERTON, ONT.

## The Second Chance

(Copyrighted)

NELLIE L. McCLUNG Author of "Sowing Seeds in Danny" (Continued from last week)

(Continued from last week)

Pearl, the oldest daughter of John Watson, a O. P. E. section man in silitord, Man., receives a sum of money and starts in to educate herself and the rest of the family. Sile proves a clever scholar but seeing that her small brothers are getting into bad habits in town, sugrests moving the family on to a farm. We are next the pearly of the start of the family on to a farm. We are next the pearly of the start of the

ARTHUR came over for his bread that evening also, and when Dr. Emory went to the organ in Dr. Emory went to the organ in the parlour and began to play, every one in the house went in to listen. He did not often play without being asked, but to-night he suggested it himself. The parlour he suggested it himself. The parlour lamp was lighted, a gorgeous affair with a large pink globe on which a stalwart deer, poised on a rock, was about to spring across a rushing stream. But the parlour lamp seemed to expend all its energy lighting up the deer and stream and the wreath of wild roses on the other side, and have very little left for the room. The doctor silently commended its dim light, for it suited his purpose better.

At Mr. Perkins's request he played At Mr. Perkins's request he played Irish reels and jigs. Mrs. Perkins had only one favourite, "Home, Sweet Home," with variations; that was the only tune she was real sure of. When the Doctor got these two orders filled he began the real business of the evening with Handel's "Largo." Mr. Perkins began to yawn and soon took his departure, closely followed by Mrs. Perkins. They unitedly declared that they "didn't like a die-away ducky piece like that that hadn't any swing to it."

ducky piece like that that hadn't any swing to it."

The Doctor's fine old eyes were shining with a real purpose as he played. "I'll suggest their thoughts for them," the old man was chuckling to himself. "Who can resist these dreamy love-songs?"—he was play-Schubert's "Screnade." "Pfulight and music! If the thou mound. I'm letting loose a whole flock of cupids. Oh, I know, I've heard their whispers—they tell you there is no death or lonelines—or separation—lying little rascals! But sweet, oh, wondrously sweet to listen to. Listen to this, Arthur—it's all yours—Martha's just as true and pure and sweet as all this—and she loves you, man slive, think of that. Sorrow and evil days and death itself will never change Martha—she's a solid rock for you to build your soul's happiness on. Dream on now, Arthur, as million-Dream on now, Arthur, as millions have dreamed before you; let your dreams keep pace with this—it will carry you on its strong tide—it will land you safe on the rainbow shore. carry you on its strong tide—it will home to her own people?" they asked land you safe on the rainbow shore, each other—not in an wikindly It carries me even, and I am old and full of evil days. What must it be to you. Arthur, for you are young and can easily believe, and the girl who loves you is right beside you. Take

the thought—it's bright with promise
—it's full of love and comfort and
home for you."

The schoolmaster stole away to his
room upstairs and took a faded photograph from an old portfolio and kissed, it rangels. ed it tenderly.

Behind the lace curtains the full moon, with a golden mist around her face, shone softly into the dimly-lighted room, and still the old man played on, the deathless songs of



"We Guarantee Pure Syrup

Notice the covered sap pail. No chance for dirt to get in this sap. A scene in Brant Co., Ont. youth and love-the sweet, changeless melodies which have come down the ages to remind us of the love that still

glorious triumphant, though the hearts that loved are dust.

CHAPTER XXXI.

MRS. CAVERS'S NEIGHBOURS.

O! the world's a curious compound, With its honey and its gall, With its cares and bitter crosses— But a good world after all. -James Whitcomb Riley.

people of the neighbourhood were disposed to wonder why Mrs. were disposed to wonder why Mrs. Cavers lived on in the old tumble-down Steadman house after her hus-band's death. "Why doesn't she go home to her own people?" they asked

mother and Aunt Edith still lived that the people of the neighborhood had associated with it the idea of wealth Unfortunately, they were wrong about this. Mrs. Cavers's mother and sister lived in a pretty white cottage, just outside one of Ontario's large Just outside one of Ontario's large cities. Roses ran over the porch, and Morning Glory vines shut in the small verandah. It was a home of refinement and good taste, but not of refinement and good taste, but not or wealth or even competence. Mrs. Cavers's only sister, Edith, and the sweet-faced mother lived there in peace and contentment, but every dollar of Edith's small salary as milliner's assistant was needed for their sustenance.

Mrs. Cavers had never let her mo Mrs. Cavers had never let her mo-ther and sister know what hard times she had come through. It was her good gift that she could hide het troubles even from them. Even now her letters were cheerful and hopeful, the kindness of her neighbours being often their theme. She made many excuses for not coming home to live.

She was afraid the damp winters would not agree with Libby Anne: she had not disposed of all her stock reasons she gave, but never the real one. She knew how hard it was to find a situation in Ontario, and now, faded and wrinkled and worn as she was, what chance had she among the many? She would stay in the West She would stay in the get a position as housekeeper on arm. She could earn her own living and Libby Anne's, and Libby Anne would go to school.

Mrs. Cavers was a brave woman, and faced the issues of life without a murmur. She told herself over and over again that she should be thankful that she had her health and such kind friends and neighbours. But kind friends and neighbours. But sometimes at night when Libby Anne was sleeping, and she sat alone by the fire, the weariness of the years rolled over her. If she could see her mother, she often thought, and feel once more that gentle touch of sympathy that never fails, if she could creep into her mother's arms, as she

creep into her mother's arms, as she had often done as a child, and cry away all the pain and sorrow she had ever known—she could forget that life had held for her so much of ill.

The Watsons' gift of two hundred dollars came like a prisoner's release, for with it she could go home. She and Libby Anne would have a visit at home anyway. There at home anyway. Then she would come back on the harvesters' excur-sion and work for three months during the busy time, and perhaps go home again. She would not think of nome again. She would not shink or the future beyond that—it was enough to know that she and Libby Anne would go home in the spring. It was in February that Libby Anne took a cold. When she had been away

took a cold. When she had been away from school a few days Pearl Watson went over to see what was wrong. Libby Anne's flushed face and burning eyes so alarmed Pearl that next day she sent a note by her father, who was going to Millford, to her friend, Dr. Clay.

Dr. Clay went out at once to see

Libby Anne, and, without alarming Mrs. Cavers, made a thorough exam-ination of the child's lungs. He found that one of them undoubtedly was affected

Mrs. Cavers was telling him about their proposed journey east, which the generous gift from the Watsons had made possible. They would go just as soon as Libby Anne's cold got etter now-the damp weather would

hetter now—the damp weather would be over then.

The doctor's face was turned away. How could he tell her? He could not tell her here in this forsaken, desolate little house. "Come for a drive, Mrs. Cavers," he said at last. "Let me take you and Libby Anne over to see Mrs. Perkins and Martha. It will do you both good."

Mrs. Cavers gladly assented, but

would going out hurt Libby Annel "Oh, no!" the doctor assured in "the fresh air will do her good." When they drove into the Perkins was yard, Martina and MIS. Perkins will be welcomed them. The doctor some calls to make across the n but he would be back in time to the home before dark, he said.



Very Young Poultry Women

The children can be taught to a great help in earing for the farm try. The little daughters of Mr. 8 Matchett, Peterboro Co. Ont., here a counding up their geese for the ion of an editor of Farm and he are starting in early to take an interpretable.

Mrs. Perkins had taken the visit MIS. Perkins had taken the visits into the parlour the doctor follow Martha into the kitchen. He wou tell Martha, for Dr. Clay, like ew one else who knew her, had learn that Martha's quiet ways were full strength. Martha would know when the doctor was the companion of the compa

He told her in a few words "Has she a chance?" ask a, quietly.

tha, quietly.
"She has a good chance," he as swered. "It is only in an early stage.

swered. "It is only in an early stage but she must be put in a tent, kep in bed, and have plenty of nourse ing food; either that or she must be sent to a sanitarium." "Where is there one?" Marth

asked 'At Gravenhurst, Muskoka." "Oh, not among strangers!" said quickly.

"But her mother can't be left alon with her," said the doctor. Martha stood still for some n Martha stood still for some ments with one hand on the textetle's shining lid. Then she spok extitle's shining lid. Then she spok and," she said. "Mother and I will help Mrs. Cavers. I'll ask father all she will be will be will be will be seen to be supported by the seen to be supp mother, but I'm sure they'll be wil-ing. They never went back on a neighbour. We must give Libby Ann chance."

The doctor looked at her with admiration. "Will you tell Mrs. Caves Martha? You're the best one to tell

her."
"All right," she answered. "I si

tell her."

The doctor drove away with a gna reverence in his heart for the que Martha. Pearl had tolk makes Martha's hopes and fears in agreat ambition she had for an education. "She won't have much ten to improve her mind now," he said to himself. "She never hesitatel, though. She may not be acquainty with the binomial theorem, but sk has a heart of gold, and that's mal. with the binomial theorem, but we has a heart of gold, and the's may important. I wonder what Arthur it thinking. He's foolish to grieve to the tow-haired Thursa when quees are passing by."

(To be continued)

May 16, 19 \*\*\*\*\* The U

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Satan's great his abilty to Each of us h ins or faults are refore they suggests trou rely faults a ot worth bothe se only too of arms the bis on soothes on weaves the There are hu it to themselv e to examine not living a ht to live d then comn in in the sa dozens an And Sata em that they

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### by Annel The Upward Look \*\*\*\*\*\*\*\*\*\*\*\*\*

The Direction of Our Lives

Whosoever committeth sin is the

greatest power over us lies his abilty to deceive us.

Each of us have some one or more

s or faults to which we are peculas or ratifs to which we are pecul-dly subject. Really they are sins.

I sins are displeasing to God.

berefore they are dangerous. But an suggests to us whenever our triely faults and, therefore, not very prious. Really, he says, they are to worth bothering much about. And we only too often, are content to take urms the bird and then draws it on soothes our consciences, and weaves the bands of our sins hter and tighter around us.

there are hundreds of thousands of essing Christians to-day who adto themselves, whenever they take to examine their lives, that they not living as close to God as they to live. They sin and repent, d then commit the same sin over in in the same way that they have And Satan keeps whispering em that they really can't help it, aver that they ought to, or to the udy of God's word, that they must ep the house clean, or their busi-ss going. And they listen to and ept Satan's suggestion that living to God will necessitate their ecting their daily duties and efore, never gain the mastery of

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their sins, and thus they sin again. "Whosover committeth sin is the servant of sin." Whosover gives way

servant of sin." Whosoever gives to an impatient temper is the servant of sin. Whosoever listens to the voice soever neglects to forgive others for things they have said or done is the servant of sin. Whosoever spends too servant of sin. Whosoever spends too much time in the pursuit of wealth or pleasure is the servant of sin. Whosoever is slothful is the servant of sin. And the wages of sin is Death.

(Romans 6:23.)

There is no excuse for us when we habitually allow our little sins-which once we recognize them to be sins become big sins, if we persist in them—to have the mastery over us. We cannot serve two masters, God and Sin The longer we continue to put up with our sins the more we cut o selves off from God. The moment we resist them and turn to God they begin to lose their power over us. Know ye not that to whom ye yield yourselves servants to obey, his servants ye are to whom ye obey; whether of sin unto death or of obedience unto righteousness?" (Romans 6:16.)

By surrendering ourselves to God

and seeking His guidance and strength we can master our sins. (Romans 6: 14.) They can no longer have dominion over us. We cannot gain, perhaps, the victory in a day or a week or a month, or it may be a year. But each week and month while we earnestly seek with God's help to gain the mastery over them, will enable us to look back over victories gained that will encourage us to continue the conflict with more confidence and increas-ed faith. "Each victory will help us some other to win." "Wherefore . . . let us lay aside every weight, and the sin which doth so easily beset us, and let us run with patience the race that is set before us, looking unto Jesu the author and finisher of our faith. (Hebrews 12:1-2.) "And the peace of God which passeth all understanding shall keep your hearts and minds through Christ Jesus." (Philippians 4:7.) The victory is worth gaining. Let us therefore fight the good fight of faith.-I.H.N.

To Mothers

"Tell me a story, please!"
You remember the sweet, beseching, little voice of vesterday, do you not. You will hear i to-morrow. Through all the years every child voice will bear the same burden: "Please tell story.

Did the plaint fall on dear ears? Were you too busy, too tired, too were you too busy, too tired, too much engrossed with home cares to tell the longed-for story? Do you realize what your child and every other child wants, longs for, needs,

other child wants, longs for, needs, when he asks for a story?

He wants food for his imagination, first of all. He doesn't live in your world. His world is a kind of unexplored borderland, a place beyond the visioning of us adults, who have grown too tall to enter its strong-holds. It is a land of beauty and desires a line of live is the strong that the strong holds. sire, a place full of fairies and flowers, sunlight and other children playing, a most delectab'e happy place for sojourning. No wonder that the lad wants to be taken there. that the little When you tell him a story you are only re-peating the words of the book, but the little lad lives it all.

AN END WORTH WHILE A story will do a great many things for a child; make him brave, helpful, true. sympathetic; but above all these it will teach him the art of visioning. He learns through a well-told story to see beyond the veil of the common-

exquisite pleasures of real idleness are denied to her; she cannot loll, she cannot waste her time. This is very cannot waste her time. This is very amusing from the woman's point of view, for woman is really the born loafer, and not man, the only difference being that she does it in private, while he does it in the semi-publicity of his club. The woman who is on loafing bent goes about it systematically. She dons a rest gown. man, who has learned nothing of the pleasures of a rest gown, will think has discovered the most gorgeous depths of laziness when he is sconced behind a newspaper in his club smoking-room exposed to the conversation of everyone who has not realized that a man who i loafing doesn't want to talk. is really

. . . He Waited too Long

Mrs. P. Richards, Wentworth Co., Ont. Could we get down in black and white the story of many a farm wo-man's life it would be a tragedy of small things. Small things indeed. But things that robbed her life of all that was worth while. In most cases. the root of the trouble is selfishness

on he part of the husband. He is anxious to install all modern improvements on his farm and around his barns, but just why his wife should ever need money he cannot see. One of these farm tragedies was well ventilated in our neighbourhood some years ago. One of our neigh-

bours who thought that the spending of all the money should be in the hands of his lordship, the man of the hands of his fordship, the man of the house, carried his selfishness a little too far. His wife rebelled and left him, and then the story of how he has stinted her in everything came

HOME ESSENTIAL TO PARM.

When the wife was no longer with him, this man began to find out what a valuable business partner she had been. Keeping bachelor's hall was not convenient, and he soon found that he could not run the house and farm too. In the city he could have boarded out, but the home is an es-sential part of the farm, and he had to stay right there.

About a year ago our farmer neigh-bor started to work to improve his home. He painted the house, re-modelled the interior, and made all things up-to-date. And then he wantthings up-to-date. And then he want-ed his wife to come back to him. But would not.

Would it not have been much more to the point for this neighbour to have installed his improvements earlier and kept his wife happy and contented? There are thousands of farmers who are pursuing the same course as did this man. Why not make your improvements now before you have driven your wives away from you or into their graves?

Household Hints

Table linen is apt to wear in the creases. Before signs of wear appear out a little off one side and hem it. This will bring the creases in a different place, and save the wear. The same may be done with the ends.

Rags should never be thrown away because they are dirty. Soap mem and leave in cold water. Boil, adding a tablespoonful of paraffin to the water, and they will be nice and clean, and most useful for any kind of polishing in the house.

Before washing home-made net cur tains having a straight-hemmed edge, He learns through a well-told story to see beyond the veil of the common-place.

"I loaf and invite my soul," says the poets. We are told by a contemporary that no woman can loaf. The



EGGS FOR HATCHING Have you any for sale? It will pay you to

## THIS WASHER MUST PAY FOR ITSELF.

A MAN tried to sell me a it was a fine horse and it ter with it. I wanted a fit know anything about horses much. And I didn't know the man very well either. ad nothing the mat-

ther. So I told him I wanted to

So I told him I wanted to
So I told him I wanted to
So I told him I wanted to
He said "Ail right" bit
pay me first, and I'l give
He said "Ail right" bit
pay me first, and I'l give
He land to the said to the
Well, I ddin't like that,
was nt "all right" and that
I might have to whistle for
might have to whistle for
hore, although I wanted
with It. So I didn't buy the
hore, although I wanted
thinking.
You see I make WashYou see I make WashNow I see I make WashI had to be to the said to the
hore, and a said to myself, lots of people may think
the hores, and about the man who owned it,
I'll had to rever know, because they wouldn't
Machines by mail. I have sold over half a millean that way, So, thought, I, it is only fair
for an month, before they pay for them, just as I
was the said to be the said to be the said to
have how who was the said to be the
machine.
I will wash tub full of very dirty
clothes in Sig Minutea. I know on other machine.
I will wash tub full of very dirty
clothes in Sig Minutea. I know on other machine.

wearing or tearing them, in less than haif the time they can be washed by hand or by any other. I know it will wash a tub full of very dirty clothes in Six Minutes. I know nother machine clothes in Six Minutes. I know nother machine clothes in Six Minutes. I know nother machine clothes in Six Minutes. I know not the machines do.

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fer how nard he may try.

Delay in making your will is an injustice to those whom you wish to be taken
care of. The courte are full of will cases
where, by legal technicality or the absence of a will, the people who inherit
property are almost the last ones that
the deceased would want to share in it.

Life is very uncertain. Life is very uncertain.
So if you wish to assure those who ar nearest and dearest to you of receiving all that you wish them to have, instead all that you wish them to have instead as the control of the second of stances

Why not send to-day, now, while it is on your mind to The Bax Will Form Co., Room 5, 275 College St., Toronto.

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Ask any good dealer to demonstrate now the New Century saves time and strength. Look at the springs that do half the work and the ball-bearings that make it run "SO EASY."

Notice the Rust Proof shaft that makes

Notice the Rust Proof shaft that makes the machine rigid and lasting, and also the Anti-Warp rust-proof steel ring sprung into groove inside tub.

These are unique features.

This machine pays for itself in the common straight and the staves. Ask for "Aunt Salina's with the staves. Ask for "Aunt Salina's with the staves. Ask for "Aunt Salina's with the staves. Ask for "Aunt Salina's Aunti Salina's with the staves of lightening work on wash day.

A-1-12

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## A House-cleaning Melody

Sing a song of cleaning house, Pocket full of nails; Four and twenty dust-pans Scrubbing brooms and pails; When the door is opened, Wife begins to sing:

"Just help me move this bureau here. And hang that picture, won't you,

And tack that carpet by the door, And stretch this one a little more; And drive this nail, and screw this screw

And here's a job I have for you—
This closet door will never catch.
I think you'll have to fix the latch;
And, oh, while you're about it, John,
I wish you'd put the cornice on.
And kang this curtain; when you're done

done
I'll hand you up the other one;
This box has got to have a hinge
Before I can put on the fringe;
And won't you mend that broken
chair?

I'd like a hook put right up there The bureau drawer must have a knob,
And here's another little job—
I really hate to ask you, dear,
But could you fix a bracket here?"

With this and that and those to do, Ad infinitum and more, too, All in a merry jingle,

And isn't that enough to make
A man wish he was single (almost)? Carrie W. Bronson, Wisconsin Agriculturist.

## The Lawn-Preparation and Seeding

The lawn is probably the most important feature that deals with the impression of a beautiful home. In making a lawn, the first feature is grading. It should always be graded making a nawn, and make gradded gradding. It should always be graded and the grass sown upon it, for the grade can with difficulty be changed in after years and must be more or less persons the grade grad manent. If hard-pan or stiff clay lies near the surface, it should be remov-ed, and only the best top portions of the soil be retained.

Drainage should be considered in

onnection with grading. It is ess tial to have the lawn well drained, for grass will not do well when there is water standing at its roots. A sandy loam soil will usually obviate any necessity for detailed attention to drainage; yet all lawns should have good under-drainage; and if the situation is flat, probably tile drainage will have to be resorted to.

SOIL PERTILITY

After the grading and the drainage are attended to the surface should have a toy-dressing of well-rotted mathematically and the surface should have a toy-dressing of well-rotted mathematical that well-seeds or any other underable foreign material coming into it. The dressing should be worked into the toy soil; and then the soil, with the worked-in dressing of manure, should be turned over with a plow or wanding.

when the plowing or spading has been completed, the ground may be levelled and thoroughly pulverized with garden-rakes or with a harrow.

If each is put upon a lawn that is

sults, timothy may be added at si rate of 10 pounds to the sove miture; or a peck of rye may be so ture; or a peck of rye had occuper acre, in order to give a green a per acre, in order to give a green a per quickly. It should pearance very quickly. It remembered that, in order t results with lawn grass-se ds should be sown just as soon ground can be worked up i spring, so that germination and growth may be secured while weather is yet cool. Most seeds germinate best in the time whethe nights and the days are compared atively cool. The usual practice sow the seeds and depend upor showers to wash them into the Very often a brush harrow, made in a thorn bush cut and dragged over ground, will give a covering that sufficient.—K. A. Kirkpatrick

## The Back Yard Beautiful

Mrs. A. P. G., Hastings Co., Ont.
"Oh, dump it in the back yas,"
How often we hear that express Too many of the back yards belt our farmhouses are a dumping-pl for the whole farm. We have to



Gables that are Attractive The storey and a half house with pli windows has an attractiveness all its or

windows has an attractiveness all its a Such windows will redeem an other plain house. The home of Robt Shie Halton Co., Ont., is here i tustrated —Photo by an editor of Farm and Di

to work out a few ideas of our with regard to what the back you should be, and we believe that have succeeded in making the h of our house almost as attractive the front

It used to be that the cattle come right up to the back door he house. We now have them fe ed back in their proper place. I yard is levelled, a nice green swa has been developed, and is kept d ped with a lawn mower. The board fence to the west that pr from winds is covered with vines. at the base is a nice border of pen nial flowers that make a great of play all summer and requires w play all summer little attention. All the fences neatly painted, and on no accounrubbish dumped in our door y.
We are so proud of it that we

with garden-rakes or with a harrow. If seed is put upon a lawn that is lumpy, and that has not been thoroughly prepared, one cannot expect good or quick results. The seed should be secured during the winter months, in anticipation of the havn that is to be made in the spring.

A very good mixture of seed to use is composed of 30 pounds of extra recleaned Kentucky Blue Grass and 10 pounds of the same quality of white clover per acre. Thirty pounds of Red Top are also very frequently added to the mixture.

The blue grass is rather slow in germination; and, to get quick results from the same content of the same content of the same content of the same quality of white clover per acre. Thirty pounds of the same quality of white clover per acre. Thirty pounds of the same quality of white clover per acre. Thirty pounds of the same quality of white clover per acre. Thirty pounds of the same quality of white clover per acre. Thirty pounds of the same quality of white clover per acre. Thirty pounds of the same quality of white clover per acre. Thirty pounds of the same quality of white clover per acre. Thirty pounds of the mixture.

The blue grass is rather slow in germination; and, to get quick re-

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For calendars write the Registrar G. Y. CHOWN Kingston, Out. July 3 to Aug. 17

Tonight Plan whom you are about taking FARM AND DAIRY.

# Homeseekers **Excursions**

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## \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* **Vincent's Health Hints** อื่อออออออออออออออออออ

Reward of Sensible Eating

Food that we take pains in eating has the finest taste of any ever taken into the mouth. We never get half the pleasure we might out of eating. Well-chewed food is delicious beyond description. It may be the very plainest of food, but if we masticate it well it satisfies the appetite as no food ever did before. Less of it will be it satisfies the appetite as no food ever did before. Less of it will be needed, too, to keep up the bodily strength. There will be absolutely no need to take pills or any other form of physic if we eat this way. We never will have any digestive troubles due to faulty earlier. due to faulty eating; that is a posi-tive fact. We need never be afraid of appendicitis; it will not come near us. We lessen our chances of cancer

a thousandfold, and if our food be clean, simple and well cooked the likeclean, simple and well cooked the like-lihood of that disease is still further greatly reduced. Would it not pay to reform in this way? Pay? It would add years to our lives and make life sweeter and happier and more blessed than any other one thing we could

WHAT IMPROVED EATING LEADS TO If there is anything I do want to steer clear of, it is being a crank about any part of my work, and especially any part of my work, and especially in regard to this matter of eating. Eating is really such a small part of living. Or it ought to be, and it is to the man and woman who live right. To be all the time thinking about eating is one of the worst things in the world. We ought to give it attention, but not make it a life object. When we rise to the also. When we rise to the place men ought when we rise to the place men ought to occupy on this subject, we will see that the purpose of eating is to glorify the One who made us and take with the deepest gratitude all He sends us, down to the minutest portion of our daily food, and turn it into brawn and brain, life and spirit, so that we will brain, life and spirit, so that we will be just what He wants us to be, pure, earnest, happy and helpful in the places where we have been placed.

CAUSE OF SOME BRUTISH MEN

But we never can reach this high But we never can reach this high standard and eat food that is not right, or good food that is not cooked right. I know this puts a big burden on the wemen folks who do the cook-ing and wrong eating have turned many a man into a brute. Why, I can tell you of men who are as cross as a sore-headed bear from morning till night. They never speak a pleaas a sore-neaded bear from morning till night. They never speak a plea-sant word to anybody, especially their own wives and children. They grump and growl around all the time. and growl around all the time. The old dog slinks away when they come, the horses lay back their ears and look as mad as hatters and as scared as a chipmunk when a gun goes off. These men don't get much comfort out of life—how could they?

TRANSFORMING MEN

But you take those same men and give them good food properly cooked and show them how to eat like human beings and they will soon be changed men. Their very faces would show it. They would smile and have a kind word for other folks; they would see that the world is not going to the dogs, and they would be healthy, happy, strong members of society. Is this fancy? Not a bit of it.

Tickets will also be on sale on certain have seen just such changes worked ates via Sarnia and Northern Navigation out in men. And it does seem to me out in men. And it does seem to me if I were a woman I would certainly work hard to learn how to cook-not just how to make good pastry, but loss now to make good pastry, but how to prepare good, pure, whole-some food ,such as people ought to put into their stomachs. There cer-tainly could be no higher ambition than to do this.

## SPECIAL PATTERN SERVICE

We realise the great interest that all of our readers take in the new spring styles, and have therefore made arrangements whereby we will be able to give many more patterns in Farm about 50 memors of the styles o 

SEMI-PRINCESSE DRESS, 7413



Flouncings and make many of the bordered materials prettiest dresses of the season. This one is very dainty in effect yet extreme-ly simple to make and it requires ma terial of only mode

rate width.

For the 16 year size will be needed 2 1-8 yards of borsize will be needed 21-8 yards of bordered material 28 inches wide and 31-2 yards 17 inches wide with 3-4 yard of plain material 36 inches wide and 1 yard 21 for the bands, 21-8 yards of insertion and 5-8 yard of tucking to make as illustrated. t in sizes for misses of age.

pattern is cut of 16 and 18 years of age.



Overlapped skirts are among the prettiest and new-est. This one gives extremely becomextremely becom-ing lines, and is both graceful and smart. It is simple smart. It is simple also and easy to make For the 16 year size will be needed

size will be needed 4 yards of material 27, 51-4 yards of inches wide when material has figure or nap. 31-2 yards 27, 21-2 yards 36 yards 37, 21-2 yards 38 or 44 when material has neither figure nor nap; width of the skirt at the lower edge

This pattern is cut in sizes for misses of 16 and 18 1 18 years of age. BREAKFAST JACKET, 7140 EMBROIDERY PATTERN, 386



The breakfast jack-et that gives an Em-pire effect and that is cut in one with the sleeves is a very new and a smart one

For the medium size will be required 51-4 yards of mate-rial 27, 25-8 yards 36 or 2 yards 44 inches

This jacket pattern This Jacket pattern is cut in three sizes, small 34 or 36, med-ium 39 or 40, large 42 or 44 inches bust measure; the emmeasure; the em-broidery pattern in-



The plain blous with just a tue over each shoulder to provide becom-ing fullness is ing fullness is available for many uses. It will serve admirably as a guimpe, it makes one of the best possible models for embroidery or for lace trimming and it is in every way

it is in every way desirable for fancy materials. For the medium size will be required 31-2 yards comaterial 18, 25

yards 27, 2 yards of b ds 36 or 44 inches wide with 2 yards of banding. This pattern is cut in sizes 34, 36, 38, 40, 42 and 44 inch bust measure.

BLOUSE OR GUIMPE, 7397

OUTING COAT, 7408



There is no or jacket that fills a more needed place a more needed place during the warm weather season than this one. It is exceedingly smart, is easy to slip on and off, requires no lining and it can be made from a variety

made from a variety of materials. For the medium size will be required 3 3-4 yards of mate-rial 27, 2 5-8 yards 36, 2 yards 44 in

This pattern cut in sizes 34, 36, 38 and 40 inch bust

GIRL'S GUIMPE, 7429



The little guimpe made in peasant kimona style is pretty and becoming one and it is, so simple that many can be made with very little effort.

For the 8 year size will be required 2.58 yards of material 18, 2 yards 27, 1 yard 36 or 44 inches wide with 11-2 yards of banding to make as thown on the for the yoke and cuffs as shown in the for the yoke and the state of the state of the yoke and the state of the yoke and the state of the yoke and th

cuffs as shown in the small view This pattern is cut in sizes for girls from 4 to 12 years of age.

BOY'S SUIT, 7400 657 EMBROIDERY PATTERN.



The Russian suit made with a single made with a single revers is a very pretty one, and this season it is much liked, finished with embroidery. Little boys like masculine clothing, but such dainty touches seem to render them to render them more childish in ef-

For the 4 year size will be required 51-2 yards of mate-rial 27, 21-2 yards 36, 21-8 yards 44 inches wide

This pattern is out in sizes for boys of 2, 4 and 6 years of age.

WAITRESS' APRON. 7421



Every housekeeper will appreciate a tasteful apron for waitress' wear. This one is so simple that it can be made readily and quickly, at the same time that it is dainty and becoming. The Every housekeeper straps over shoulders straight and if liked they can be made from embroidery.

For the medium size will be required 3.3-4 yards of mate-rial 36, 3.1-4 yards 44 inches wide.

This pattern is cut one size only.

## 11 Four

The Best Canadian Magazines

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What you are and the success you make depend much upon what you rosed. This applies with double rosed. This applies with double rosed. This applies with double rosed. The rose of the ros

hould be read by everyone who ests to make poultry raising st

pects to make poultry raising sup-FARM AND DAIRY 15.00 Subscribe through Farm and Dairy and Secure the four for one year of the period of the period of the OF Farm and Dairy and The Cana-dian Home Journal for Si-10 OF Farm and Dairy and The Cana-dian Poultry Review for Si-10 OF Farm and Dairy and The Cana-dian Poultry Review for Si-10 OF Farm and Dairy and The Cana-dian Home Journal and The Cana-dian Home Journal and The Cana-dian Horticulturist or Poultry Re-view for Si-10

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### Cleaning Paint

By Henry Link
The woodwork of a kitchen painted
with some beautiful color adds much to the pleasures of living within its borders, and there is no pleasure in seeing dirty woodwork. With a little seeing dirty woodwork. With a little work it can be washed and easily kept work it can be washed and easily kept clean by using good pure whiting, warm water and a large piece of flan-nel. Dip the cloth in the water and wring out nearly dry, then roll around

in the whiting, getting all that will stick on the cloth. Apply to the painted surface with a light rubbing, which will start the dirt and grease, and you can just see that unsightly surface crawl, follow up with warm rain water, not too warm, however, and dry with a large outing cloth.

The pain will come out looking as it did when first put on, and the colors will not be injured the least particle; delicate blues, pinks, browns or greens will come out of this cleaning the same shade as when the paint was first put on the woodwork. Never wash woodwork with soap and water, it takes so much time, is back breaking work and you feel so tired when you are done and then no doubt you have injured the colors and the acid in the soap making the paint sticky will thus catch more dirt and grease than tefore it was wasned. I have tried both ways but the whiting way beats any other method.—Ex

Smoking Meats By W. H. Tomhave

Smoking meat is an old and ancient custom that has been in vogue for centuries, and has probably un-dergone as slight a change as any branch of the meat industry. The object of smoking meat is to preserve it for summer use, and at the same time add the flavor which is so desir-able. It also makes the meat more palatable, consequently greatly im-

190 Acres 4 miles from thriving loam soil. Barn 70 by 100. Comfortable stone house. Farm is well watered with his wayings. A first-class proposition-law in the stone house in the second of ill-health leave it on account of ill-health leave it on account of ill-health priced at a low figure. Write J. G. Armstrons, Owner, Peterboro, Ont. Or apply on premises.



Lump Rock Salt, \$10 for ton lots, f.o.b. Tore

Many artificial methods of flavouring have been recommended, and materials sold on the market: but none have been discovered that are as satisfactory as smoking with a proper fuel. After the meat has been in brine for a period of six or seven weeks, it is ready to be smoked. After taking is from the brine, all pieces should be soaked in water at about 55 to 65 de-grees F. Keep the meat in the water or about five or six hours. The ob ject of this soaking is to remove all

A desirable smoke-house is one built of brick or cement; but it may be built of any material. For farm use, a convenient size is one that is about six by eight or eight by 10, and about 10 feet high. Ventilation should be provided, so that the smoke may esprovided, so that the smoke may es-cape from the house. Some people conceive the idea that all smoke should be held in the house and not allowed to escape; but when such is the case it becomes stale and does not impart to the meat as good a flavour as when it is allowed to pass from

the salt from the surface; which, if left on the meat, forms a crust and is very objectionable after smoking. After soaking, allow the meat to drip before hanging in the smoke-house.

Save Trips Down Cellar

A dumb waiter, such as the one here illustrated, will save many trips down the cellar stairs. Perishable goods may be kept in the cool cellar, but can be gotten when wanted without labor. Note how simple is the construction of such a waiter.

the smoke-house after coming in contact with the meat.

In hanging the meat in the smokeouse, no two pieces should be allowed to touch, as it means uneven smoking. The meat should be hung as high as possible, so as not to be 100

near the fire.

The best fuel to use is hard wood such as hickory, maple, or any good hard wood, or sawdust. Soft woods should be avoided, as they give off considerable carbon, which forms an undesirable coating on the outside of

the meat. In case the hard wood ca not be had, the best thing to use never be more than enough duce a continuous smudge, so as n to give off too much heat,

A light, continuous smoke should be started under the meat, and key up for a period of from 36 to 48 hours This is long enough to smoke me if the fire is not allowed to die don Meat, when properly smoked, sho be of a light straw brown or am

The Place for the Flowers

Miss Hattie Rogers, Halton Co., Out. When I see a bed of flowers study right in the centre of a nice lawn, now that the person who put it th has poor taste. It breaks the gre sward, than which there is nothi sward, than which there is noting more beautiful, and does not its show up to the advantage that would in a more inconspicuous place

The place for the flowers in pl fine place for the nowers in pa ning the home grounds is either in flower garden or in clumps and be ders at the edge of the lawn. For ders as the border set out in stranger. There are a no great admiration. There are a no great admiration in a fit here is straight lines in nature. It looks natura he mistake. It looks natura he all mens there by mistake. It looks naturand beautiful. But by all mea avoid the flower bed in a conspicut place in the lawn:

A Married Woman's Complaint

By Mrs. T. N., Glengarry Co., Out. In an article on the presented problems of married women as money in the current issue of Fara and Fireside, there are a number of reports of the actual experiences of women. Following is one of these

"Before my marriage I held to position of buyer for a large bool and stationery store in New York The firm paid me liberally and I was able to put something by each yer in the saving bank. Although a live in a beautiful home, though l ride in a motor car and wear exper-sive clothing, I literally have not the control of a single dollar.

"Whatever I buy goes on a charge count. My husband looks over the account. bills and blue pencils here and them before paying them, whatever he magards as an unnecessary purchase If I am out of postage stamps, I must ask him to bring them home for m and it is fortunate for me that I a not have to patronize the electric rarailway, as I never have small change If to-day I could take my old postion and earn my old salary, I shoul be a much happier woman."

This woman's experience is but a type of the lives that many women lead. Their husbands are not miss ly. But they do not seem to realize that the wife and mother should have some money to spend as she like. It is not only humiliating to have it ask for every cent of money we need It is positively degrading. It is a certain road to unhappiness and a certain road

Household Hints

Scraps of tissue paper, when the large enough to be used to probe clothing, may be used for rubbing w mirrors, tumblers, windows, and pe-ture glasses. Newspapers are also good for this purpose, and will point s well as chamois.

To make an old piece of lineleum di while longer, wash it well, and after it has dried paint it over with clear it has dried paint it over with convarials, taking care not to step at until perfectly dry. When necessar to clean it after varnishing wipe a with a damp cloth to remove dirt, as then polish it with beeswax and tupentine

IMPROVED F of the most in t anid the tr facturers, up recently, "in ment charact as farm impr ng with s n regardy, as co a very g

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the would rot.
kh those days, trouble was to fence and receives of time over as the bane of o est a lot to kee "A good many a ay and another, seems to me no sen more than th or one night the round the fields, the fence which ne time past, ere busy harvest field of green to it, and trato it, and tra

ith it, with the ide the following ere barely pulled veterinary from PROUD ( As I was about es on part of lown to the old li he place where to that time. He toll we ment being used it wouldn't be knee posts of, so to break. He got in trm, with the res all instructions r ement fence post
"Jack was very I
truck me, when I
had never seen I had never seen a straight as a sigu of a break in posts were all ug was smooth wire— a it used to be fack asked me ho since the fence wa haps a few month

years instead of nearer it.' "It was a fact ears that fence h ng that time not and Jack had not fter it. TI asked my bro

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and as you will the posts that us when we were boy

# Price only \$1.35 postpaid. Order through BookDept.,FARM AND DAIRY, Peterbere, 0n: G J. CLIFF, Manager Toronto, Ont USE EVERY Is this favorite WESTERN STOCK KNIFE

This Busy Farmer's Friend Known as the Western Stock Enife, is especially made and designed for

the use of cattlemen and farmers.

It is strongly and perfectly made. It is light to carry in your pocket.

He is strongly and perfectly made. It is light to carry in your pocket,

Has two extra fine steel blades and a special
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This splendid knife, will not stag handle be such a constant friend, and
which will fill a long felt need, we will not only one proper paid in return
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See a friend or neighbour first time you have the opportunity. Ask him
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you this useful knife.

FARM AND DAIRY Petersbowe

FARM AND DAIRY, Peterboro, One

5, 1912.

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IMPROVED FARM CONDITIONS

me of the most striking thing amongst farmers in the vicinity of my old a" said the travelling man of a large dian firm of agricultural implement facturers, upon his return from a

in a birthplace, in the State of New recently, "it the better and more senset character of the buildings and sign farm improvements.

"hiting with some of the farmers in the testing regarding the methods of the sent city, as compared with the past, it is a boy, was almost problitive. In the past, it is the price of this article, when I as boy was almost problitive. In the past, it is the past, it is the price of this article, when I as boy, was almost problitive. In the past, it is the pas it, and no matter where you go a sure to see something made of it.

CEMENT PENCE POSTS was particularly struck with a fence was particularly struck with a fence be my brother put up on his place, e years ago. My brother and I, you know, particularly hated looking af-fences. We used to prop the posts up halp by aid of the stones we had picked the property. Somehow these stones the property. Somehow these stones id get removed, and down would com-fence. Father used to be sid get removed, and down would come e fence. Father used to be a little hard us sometimes we thought. When the her boys were off playing, he used to us at work repairing these fences. As giones wouldn't hold the posts up, he day us dig hole deep in the ground, and is the posts down into them. These held circustle the trouble was that the well but the trouble was that the

ins the posts down into them. These held bry well, but the trouble was that the sax would roi. That did not matter as such these days, for posts were cheap such these days, for posts were cheap as the sax of t

PROUD OF HIS FENCE PROUD OF HIS PENCE
'All was about to say, my brother who
its on part of the old farm, took me
sen to the old line fence, just to look at
he place where the horses broke through
stime. He told me that when he saw
senset being used so much he wondered
if it souldn't be a good' thing to make
see peats of, so that they would nor rot
break. He got into touch he place has the
minimum to the same peat of the same peats of the same
his intructions regarding the making of
senset force now.

bil instructions reparding the making of ment fence policy of this fence, and it 'lack was very produced it to me, that 'lack was very produced it to me, that had never seen anything since. It was a straight as a die, and there wasn't a jer of arreak in it from end to end. The pors were all upright, and the wise—it is at such to be on Judge Foster's lawn. led asked me how long I thought it was the thought of the policy of the policy has a few months. Well, and the, beater a seasor it.

e nearer it."

"It was a fact that for half a dozen gars that fence had stood there, and dur my that time not a break had taken place, and Jack had not spent five minutes lookfter it.

THE COST asked my brother if the fence had not

saided my brother it too seems.

a little coate,
had he "That's the cheapest fence I is
had on my farm. It cost mere to be
had on my farm. It cost mere to be
have no much trouble with when we were
has push can never rot. The longer
had yer up the harder and stronger they
seems. I made a few lither were not
seems. I made a few lither were not
seems. I made a few lither were not
selected in the seems of the service seems of the service seems of the service seems of the service seems.

I had not of ence is that it never needs gainst them. One of the great advantages in this sort of fence is that it never needs to be repaired. I suppose in the course of time the writer will reat out and break, but that will not be the fault of the poets, but that will not be the fault of the poets do as you will remember, it was always he poets hist used to give us the worry then we were boys.

"I asked him if the posts never loose ad fell over to one side in the way sed to make so much work for us in

old days.
"'Well,' said he, 'they do loosen

old days.

and the "they do loose semitime wall, said be, "they do loose semitime wall, and be over remember how solid the
hold wooden posts used to be after they had
been in the ground a good while, and be
fore they began to rot. The longer they
remained there the solider they became,
where the solider they became,
have to tinker with them, so that they are
never disturbed, but are allowed to become
imbedded in the earth. I have sunk them
pretty desp, so that the frost will not at
sever disturbed, but are allowed to become
imbedded in the earth. I have sunk them
pretty desp, so that the frost will not at
several the solid the several the several
ten to the several the several the several
is a always just as you see it now. The
strongest man on this farm could hardly
move one of those posts. I am just now
actor it is finished the frome problem as
their larm will be estelled forever. No more
time will be wasted looking afver them,
and there will be no danger of ize horses
years upon or so-as you may remeraber.'
"I remembered all right, and as we stood
there laughing, we instinctively began rub-

there laughing, we instinctively began rub bing the sore spots once more, which father left on us upon that memorable occa

AYRSHIRE NEWS

Farm and Dairy is the recognized exponent of the Dairy interests of Canada. Breeders of Ayrshire Cattle and all members of the Canadian Ayrshire Breeders' Association are invited to send items of interest to Ayrshire breeders for publication in this column.

GREAT AYRSHIRES AT AUCTION Never before in the Ayrshire annals of have breeders had such an to secure excellent producing this country stock as will be offered them at the dis-persion sale of A. S. Turner and Son, Ryckman's Corners, Ont. Included in this herd are more cows with world records nerd are more cows with world records than in any other Ayrshire herd in Can-ada, and hence in the world. Mr. Turner has made a wonderful success of his breed-ing operations, and were it not due to a nervous breakdown on the part of Mrs. Turner, this splendid herd would not be

Turner's herd combines showyard quality and producing ability to a mark-ed degree. It is mostly, however, as milk producers that his Ayrshires have acquir-ed fame. Almost without exception they are of the long, low set type, possessing strong, vigorous constitutions, and with well developed udder and teats, the kind that make butter and money for their

Mr. Turner keens record of the milk and fat production of all the milkers in herd. To give an idea of the quality herd. To give an idea of the quality of his offering, notice the following: The mature cows have records running up to 56.7 lbs. of butter fat a year, which is equivalent to 550 lbs. of butter, which, at 35 cents a pound, a very low price, would be worth \$162.50. Three-year-olds run up to 521.9 lbs. of butter fat a year, and two-year-olds to 480.3 lbs. of butter fat. One of the cows, Briery, during April gave 2,095.75 lbs. of milk in 30 days as a three year-old, her test being 3.9. As a two-year-old, Briery's milk sold for \$254.44 wholesale. In the one month of April it was worth \$35.

The herd now consists of about 30 and mals. Of these all but three will be sold mais. Of these all but three will be sold, and it is not certain that even these will be retained. Of the whole lot, 65 are formales and 35 mileh cows. We would advise all who are looking for high-class Turner's aske on June 18th Eyekmazi's Corners is just four miles from Hamilton. Watch for further information regarding this great Ayrshire sale in the reading and advertising columns of later issues of Farm and Dairy. Gatalogues will be ready by May 2th.

NOTES FROM THE SECRETARY'S REPORT

W. F. Stephen, Huntingdon, Que.
The advertising through Exhibitions,
Dairy Tests, Record of Performance records and the press—all have combined to
bring to the notice of the public the many

bring to the notice of the public the many good qualities of the Ayrabire breed. Their attractiveness may be summed up as perfection and uniformity of type, as no other breed is just as typical in form, beauty of form, economical use of feed, uniformity in production, dairy ability and well balanced milk, the most suitable for city consumers and all other uses.



# 25 Holstein Cattle

Stock Farm, Nober, Ont, (Norfolk County)

Wednesday, MAY 22, 1912

### The Offering includes 15 Registered Holstein Friesians and 10 High-Grade Holsteins

Nearly all of the pure breds are either fresh or with calf to Gano's Faforit Butter Boy 6654, who is also offered in the sale. His dans Shrwood Gano has a record of 17,619 lbs. milk and 821 1/4 lbs. butter, at 12 years old.

All of the Pure Bred Females are in the Record of Merit or out of Rec ock with records ranging from nearly 18 lbs. for two-year-olds to 23.42 lbs. as mature cows.

to 23.42 lbs. as mature cows.

Some of the cows offered are sired by Sir Schuling Posch, No. 3416, sire of Netherland Beauty Posch, who made a Canadian record for a senior twoof Netherland Beauty Fosch, who made a Canadan record for a senior two-year-old, 3t days after freshening, viz; 48; 21 bs. milk, 20.032 jbs. butter i 6 days, 73.9 lbs. milk in one day, and Maggie Clark whose official record is nearly 25 lbs. of butter as a three-year-old. Send for a catalogue giving full particulars. Lunch at noon for those from a distance.

Trains will be met at Townsend and Hagersville on day of sale.

TERMS: Cash or six months credit to responsible parties at 6% interest.

Welby Almas,

W. J. BAILEY, Prop. Nober, Ont.

LABOR SAVING Machines appeal mightily to Farm and Dairy people— the dairy farmers—since manual labor is most ex-pensive to buy. It'll pay you to meet our people with your advertisement at the pensive to buy, It'll pay you to n time their interest will Farm Machinery Number, June 6th

OUR HERD OF

# **80 - Ayrshires - 80**

Will be sold at Unreserved Public Auction

TUESDAY, JUNE 18th, 1912



Our herd comprises more world's record producers than at any previous sale ever he

Mature Cows with records as high as 556.7 lbs. of butter fat a year.

Three-year-olds with records as high as 521.9 lbs. of butter fat a year.

Two-year-olds with records as high as 480.3 lbs. of butter fat a year.

this opportunity of getting deep milking, high testing Ayrshire We have a few bulls and bull calves from deep milking stock

Watch Farm and Dairy during next few weeks for large advertisements and illustrations of our cattle

Plan to come to our great sale, June 18th. Catalogues ready May 24. Write for yours to-night.

A. S. Turner & Son, Ryckman's Corners, Ont. Four Miles From Hamilton

## BREEDER'S DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No eard accepted under two lines nor for less than six months, or 26 insertions during twelve months. 

FOR TAMWORTH SWINE-Write John W. Todd, Corinth, Ont., R.F.D. No. 1. YORKSHIRE FIGS, all ages, either sex. Choice young boars, fit for service.—H. C. Benfield, Woodstock, Ontario.

HAMPSHIRE PIGS—Canadian Champion herd. Boar herd headers. Bows, three months and under.—Hastings Bros. Crosshill. Ont.

CLYDESDALES, Imp. Stallions and Fil-lies. Fresh Importations always on hand. Every mare guaranteed in foal. J. à J. Sample, Milverton, Ont., and Luvarne, Minn., U.S.A.

HOLSTEINS—Young stock, for sale. Sire by Imperial Pauline DeKol, whose nearest dama average 25.20 lbs. butte in 7 daya.—R. W. Walker, Utica, Ont.

HOLSTEINS AND TAMWORTHS—All ages, also S.O.W. Leghorns. Young stock for sale at any time.—J. McKenzie, Willow-dale, Ontario.

CLYDESDALES—Home of Acme. (Imp. Holsteins—Home of King Fayne Segt Clothide, nearest 7 dams W lbs. buties per week, and Broken Welsh Pontse. R. M. Hottby, G.T.E. & P.O. Manche te. (na. Myrtle O.P.E.

## HOLSTEINS

# Ourvilla Holstein Herd

(24)

Present offering—Ball Calves, five months old and younger, from our great bull, Dutchland Colantha our great be

EDMUND LAIDLAW & SONS. ELGIN COUNTY, AYLMER WEST - ONT.

### GREATEST VIEW HOLSTEIN HERD

As I have sold all my yearling bulls, I am offering my spring crop of Buil Calves, sired by Cora DeKol Pietertje's Count, half-brother May Echo, the champion R. O. P. cow with nearly 24,000 lbs. milk and 1,660 lbs. butter in 1 year, from large producing dams. Prices moderate. For particulars,

ARCHIBALD PARKS, NAPANEE, ONT.

## LAKEVIEW HOLSTEINS

antha Sir Mona, and out of heifers sired by Count Hengerveld Fayne DeKol.

E. F. OSLER BRONTE



Offers for sale three or four Holstein Bulls, fit for service, from R.O.M. and R.O.P. cows These bulls are about two-thirds black and all are good ones. Will sell reasonable to make room for the young stock this spring. H. F. PATTERSON, ALFORD JCT., ONT. Bell 'Phone on Farm

N.B. Having sold all my yearling bulls, I am now going to offer the young son of Disone's 2nd Lulu, the Dam of Lulu Keyes.

He is 5 weeks old, light in color, straight and well formed. Price \$126.

E. B. MALLORY FRANKFORD ONTARIO

LAKESIDE DAIRY AND STOCK FARM Present offering, Bull Calves from Record of Performance dams; also a few females.

W. F. BELL, BRITTANNIA BAY, ONI. Ottawa Bell Phone.

### AVONDALE FARM HOLSTEINS Yorkshire and Horned Dorsets

A. C. HARDY - Proprietor SERVICE BULLS:

SERVICE BULLS:

KING PONTIAC ARTIS CANADA--Bire,
King of the Pountace, dam, Fontac
Hing of the Pountace, dam, Fontac
His butter in 36 days
PRINCE HENGENFELD PHIFIE, -Bire,
PRINCE HENGENFELD PHIFIE,
HIS PRINCE HENGENFELD PHIFIE
HINDER HENGENFELD
HINDER

## MARKET REVIEW AND FORECAST

Toronto, Monday, May 13.—Immigration, them off the land to deliver it tatistics up to date this season are most sides there is not much hay in statistics up to date this season are most satisfactory. In fact Old Country people could not come to Canada much faster as could not come to Canada much faster as-all the steamer space available is taken up. A pleasing factor is that the immi-grants are of a better class than we have ever had before. Many of them bring money enough to buy and equip farms. Practically all are going to the north-

Prescription of the property o

WHEAT

Lake shipments of wheat are expected in a very short time, and prices have declined on Manitoba wheat in consequence. Lattest quotations are: No. 18.04; feed wheat, 66. The demants of the state of the has done much damage to fall wheat and the crop may be short.

COARSE GRAINS

Expected lake shipments have also orced down prices on Canadian western ats. Ontario oats maintain their old forced down prices on Canadan seatern onto the Canadan seatern onto the ministration of the Canadan seatern of the

MILL STUFFS

Quotations are as follows: Manitoba bran, \$25; shorts, \$27; Ontario bran, \$27; shorts, \$29. At Montreal bran is \$25 to \$27; shorts, \$27 to \$28 and middlings, \$23

Wholesale quotations remain unchanged. Strained honey is 10c to 11c in 69-1b. tins, 11c to 12c in 5 to 10-lb. tins; buckwheat honey, 6c to 7c in tins, 53-4c in barrels. No. 1 comb honey is \$2.25 to \$2.50 a doz. HIDES AND WOOL

HIDES AND WOOL

The market for hides is steady at last
week's prices Prices paid by country
merchants are: Hides, cured,
11 1-20; green, 15e to 10 1-26; lambs and
pelts, \$1 to \$1. 40; brors hides, \$3.5; horse
hair, \$50; calf skins, 15c to 14c. City
quotations are: No. 1, 12 1-26; No. 2,
11 1-2e; No. 3, 10 1-2e; calf skins, 15c to 15c.
Unwashed wool is quoted at 12 1-2e to 15.
13 1-2e; washed, 12e to 20c; rejects, 14 1-2c.

### SEEDS

SEEDS

Merchants are selling seeds at the following prices: No. 1 recleaned red clover, \$315 to \$151, No. 2, \$143.0 to \$815; timethy, No. 1, \$25 to \$815, No. 2, \$145.0 to \$815; timethy, No. 1, \$25 to \$82.20; No. 2, \$35.50 to \$91; attalfa No. 1, \$151, No. 2, \$315.50.

Dealers pay the following prices to farmers: Red clover, No. 1, \$15, No. 2, \$15.60. No. 2, \$15.00; No. 2, \$15.00;

EGGS AND POULTRY

EGGS AND FOULTRY
Eggs maintain the same level as noted
last week, and for the same cause—high
prices of all other kinds of food stuffs.
The Board of Trade are making a special
effort to educate farmers to market eggs
that are fresh rather than 17 per cent rotthe stuff of the stuff of the stuff of the stuff
last prices are premium for
last of the stuff of the stuff of the stuff
last prices are so to see the stuff
last prices is 50 to 50. Mortreal dealers
are paying 20s to 31s in the country.
Wholesale quotations on dressed poul-

are paying 20c to 21c in the country.
Wholesale quotations on dressed poultry are: Chickens, 15c to 17c; fowl, 11c to
12c; turkeys, 21c to 22c; ducks, 12c to
14c; geese, 13c to 15c. On the farmers'

the control of the co potatoes \$1.50 to \$1.00. At Montreal Green Mountains sell at \$1.75 to \$1.00 a bag in car lots on track. Prime beans are quoted here at \$2.50 to \$2.65 and hand picked, \$2.70 to \$2.75. At Montreal three-pound pickers are \$2.50

DAIRY PRODUCE

DARFY PRODUCE

Prices for dairy produce have suffered a further decline of 16 to 16, due to more liberal receipts. Prices in Canada are now considerably lower than in the United States, and the strength of the U. S. market has a tendency to prevent further declines on this side. Wholesale quota-let has a tendency to prevent further declines on this side. Wholesale quota-net prints, 28 to 28 to

winning stock, and all ages, for sale.

Address all correspondence tool:

H. LORNE LOGAN, Massger, Breckville, Ost.

Farmers are busy and quotations runded, but horses of any kind meet with a ning over \$30 for No. 1 hay will not draw attractive to the contractive of the contract

## HOLSTEINS

LYNDALE HOLSTEINS



\$2000 Bull King Pont Artis Canada BROWN BROS.

FOREST RIDGE HOLSTEINS

Herd headed by the grand to the second secon



A Daughter of Fontiac Herms: and out of Imported Dam, 15th, 1999. Large, straight and 15th, 1999. Large, straight and 15th, 1999. Large, straight and 16th ago per 15th, 1999. Large, straight and 16th, 1999. Large, straight and 16th, 1999. Large, straight and 16th, 1999. Large to Handley Company of Handley Company (1999). Large to Handley Company (1999). Large t COLLVER V. ROBBINS, RIVERBEND, ON Femwick Station, T.H.B.

## FAIRVIEW FARM HERD

Too much money is spent one year for poor bulls. Why not bey good one? Sons of Pontiac Kendyke, Rag Apple Korndyke, and its Johanna Colantha Gladi for sale; it head in herd. Come and see the careful.

e. H. DOLLAR. Heuvelton, N.Y.

RIVERVIEW HERD Offers built calves from \$ 10 10 max states at \$10.00 max states by KING 18EBSLLE WALTER whose 5 near-set dame and siter awas whose 5 near-set dame and siter awas 50.18 LBS. BUTTER IN 7 DATS and in 18s. in 30 days from dams of likes breeding, at exceptionally low figure, a P. J. SALLBY, LACHING RAPIDS, OL

## "LES CHENAUX FARMS"

VAUDREUIL, QUE,
HOLSTEINS-Winners-in the ring as
t the pail. Gold Medal herd at Otta at the pail. Gold Medal ners as Pair.

They combine Conformation and h

duction.

Bull and Heifer Calves from our mores for sale.

DR. L. de L. HARWOOD, D. BODEK,

Prop. No.

## High Testing Lynden Holstein

To avoid inbreeding I am offering at Herd Bull, Nigger Korndyke De Bor S ur Jorian and Ligg Joseph Inju mup m 1 work, tested 4.78 per cent fat. See Ex th number of Farm and Dairy Hoke Bull Calvee, for full records. Price, 8126, M Bull Calvee aired by above bull and he large record cows. Also a few go cows. S. LEMON, LYNDEN, ONT

# The Event of the Season in National Holstein Circles Decoration Day, Russell's Annual Sale May 30,1912 100 HEAD ———Special Features ———— 100 HEAD

Every head a female, either officially tested or daughter of an officially tested cow. All absolutely guaranteed without a blemish. and every one a breeder. This is your opportunity to improve your herd or lay a sure foundation for future dairy prosperity

"From Ohio's Most Reliable Holstein Breeder" WRITE FOR T. H. RUSSELL, Geneva, Ohio, U.S.A. May 16, 1

HOL SPRING B

C. HALLMAN,

HO OTE WILL

Holsteins Apply to

HC HC

ELMDALE For Sale: 3 Y Cuives, out of Re and sired by Pa is sire of Calan A.B.O., at 2 yr milk, 20.05 lbs. b Highland Lad-mon., 354 lbs. u days. If you w able price, write FRED, CARR. Be Homestead F

Offers Jextra go choice type, col-of one is a sor his dam is a gra Butter Baron. Also, 10 choice good breeding. R. R. BARR. . MISCE

LARGE ENG Young Pigs red ed dam and Ir each, with certi distance 'phone W. J. BULLOCE MER

TAMV is now offering the choicest bre Young sows I boars ready for of all ages, eith Safe delivery w. w. GEORGE

Breede



How Much

Because S you have for sal which they buy ! advertises?

Take the progre buyers for your live and Dairy.

Your advertisement you enly our low in your advertisement in your FARM AND NS TEINS high re

ing Pontia nada 1.YN, 032

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with record s. and junior or 25 lbs. but we up to R.

Write us to see them. ordville, (a) nch of (%)

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Holsto \$150. Ale and free cod tend T.

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10. 1912.

PRING BROOK Holateins and Tamworths and Indiana to the Company of the Company of

HOLSTEINS

C. HALLMAN, Waterlos Co., Breslau, Ont.

## HOLSTEINS

If you are wanting HOL-STEINS, any age, either sex, write: GORDON H. MANHARD Manhard, Ont

Holsteins I have 3 Young Bulls for Sale, fit for service, from good milking strain. OTTO SUHRING, SEBRINGVILLE, ONT

Purebred Registered
HOLSTEIN CATTLE
The Greatest Dairy Breed
state pos FREE LIJUSTRATES BOOKETS
filiesin Friesian Asso., Box 148 Battleboro Vt.

ELMDALE DAIRY HOLSTEINS For Sale: 3 Yearing Bulls, also cares out of Record of Merit dams, and sided by Paladin Ormsby. He is its of Calamity Jane Ormsby. All bb. 18,10., at 2 yrs. 2 mons, 411 bb. 18,10., at 2 yrs. 2 mons, 411 bb. 18,10., at 2 yrs. 1 mons, 54 lbs. milk, 1852 bbs. butter in 4 days. If you want this kind at a reason able price, write FRED, CARR, BOX 115, ST. THOMAS, ONT.

Homestead Holstein Stock Farm Nomesteau fivisterii Stock farm Ofers Settra good Bulls, it for service, of chice type, color and breeding. The sire of one is a son of Pontine Hermes, and is dam is a grand-daughter of Brookbank Batter Baron. Also, 10 choice Yearling Heifers, all of pod breeding. 1. R. BARR, - HARRIETSVILLE, ONT.

## MISCELLANEOUS

LARGE ENGLISH BERKSHIRES Young Pigs ready to wean from Imported dam and Imported grand sire, \$6.00 each, with rertificate of breeding. Long distance 'phone from Peterboro.
W. J. BULLOCK, LANG P. O., ONT.

MERTON LODGE

TAMWORTHS is now offering registered Tamworths of the choicest breeding and type. Young sows bred to farrow in April; boars ready for service and young pigs of all ages, either sex. Safe delivery guaranteed.
W. W. GEORGE. CRAMPTON, ONT.

Breeders! DO YOU EVER CONSIDER



How Much You Have Lost or how much business you do not get

Because Some One Does

you have for sale the stock they want and which they buy from the other fellow who

Take the progressive, paying way of getting buyers for your live stock—Advertise in Farm and Dairy.

Your advertisement in these columns will cost you only our low flat rate of 98 cants and inche Send in your advertisement to-day for next issu.

FARM AND DAIRY PETERBORO

follows: Choice heavy draft, \$200 to \$320; fair quality, \$175 to \$220; choice med. weight, 1,500 bbs. and over, \$250 to \$320; fair, \$170 to \$215; agricultural, good, \$160 to \$205; fair, \$100 to \$150; delivery horse, \$150 to \$200; drivers, \$150 to \$200 and saddlers, \$150 to \$270.

### LIVE STOCK

diers, \$150 to \$270.

LIVE STOCK

Where are prices going to stop? That is what dealers are now asking themselves, and the steady upward tendency of the cattle market certainly gives them something to think about. Even the high tendence of the cattle market certainly gives them something to think about. Even the high tendence of the cattle market so that the steady is the steady of the steady milkers, \$40 to \$50; com. to med., \$30; springers, \$40 to \$60. Calves are \$3 to

\$8.50.

Small meats are in strong demand:

Lambs, \$6 to \$8.50; spring lambs, each, \$4 to \$7.50; ewes. \$5.50 to \$8 and bucks and culls, \$4 to \$5.50.

Hogs show a net advance of 5c, packers now quoting \$8.40 to \$8.50 f.o.b. country

points.

A first-class demand marks the cattle trade at Montreal. Receipts are hardly sufficient over local demand and many butchers have been forced to go to the Toronto market to get supplies. Choice steers change hands at \$7.59 to \$7.57; good, \$7.00 to \$7.50 and from that down to \$4.50, \$7.00 to \$7.50 and from that down to \$4.50, and from that down the \$4.50 to \$4.50, yearlings, \$7.55 to \$7.50, spring lambs, \$3.50 to \$7.60, spring lambs, \$3.50 to \$7.60, spring lambs, \$3.50 to \$7.60, and \$4.50 to \$30 according to size and quality.

MONTREAL MOG MARKET

### MONTREAL HOG MARKET

MONTREAL HOG MARKET
MONTREAL SAUTHAY, MAY 11.—The high
prices paid for live hogs last week had
the result of bringing out heavy offerings
and the opening this week showed a declina in price of from 10e to 20e a cwt.,
selected lots selling at \$9.40 to \$9.55 a cwt.,
weighed off cars. There was also a weaker
feeling in the market for dressed hogs,
feeling of the market for dressed hogs,
quoting Foreign and the selling at \$1.50 to \$1.55 a cwt.,
MONTREAL HEESE NO.

MONTREAL CHEESE AND BUTTER

to \$4.25 a cet.

MONTRIAL CHEESE AND BUTTER
BYIGHT OF SUPPLY AND THE COMMITTER
BYIGHT OF SUPPLY AND THE COMMITTER
BYIGHT OF SUPPLY AND THE CHEESE
BYIGH

here that prices will have a set-back next week, as current quotations are exceed-ingly high and the cheese which are be-money, as they are still fodder-made. There was an active demand for butter this week at the advanced prices, and the market is closing again very bare of sup-ples. Five or six carloads have been

shipped to the west and the prices paid ranged from 25.5c to 27c, and this repre-sents the range of quotations on this mar-ket this week. Heavier receipts are ex-pected next week. Most dealers look, for lower prices, but all depends upon the demand from the West, and, if another half-doesn carloads are taken off this any change in the tone of this market and prices should remain unchanged.

### CHEESE MARKETS

Belleville, May 4.-800 boxes cheese sold at 12 7-8c.

Farnham, May 6.—112 boxes butter sold

Montreal, May 10.—The Quebec Chee Makers' Cooperative Society sold fine butter at 261-2c; fine, 263-8c; No. 2, 251-2c.

The Holstein Association of America wil held their 27th annual meeting at the New Court House, Syracuse, N.Y., on Wednes day, June 5th, 1912, at 10 a.m.

## AYRSHIRES BRING GOOD PRICES IN NEW BRUNSWICK

AYRSHIRES BRING GOOD PRICES IN NEW BRUNSWICK

Editor, Farm and Dairy-We sold our Ayrshires at Hill-drove Farm. East St. John, N. B., May 1st. The weather was ideal and a good number of prominent of the property of the state of

Havelock, N.B., \$30.
The 28 heads sold at an average price of about \$117 a head. This has been the most successful sale of pure-bred Ayr-shires ever held in the Maritime provinces. James A. Telfer, of Markhamville, N.B., was auctioneer, and he officiated in first-class style. The whole berd was dispersed of in a little more than two hours.—John J. Barrett, Manager, East St. John, N. B.

### AYRSHIRES

### AYRSHIRES AND YORKSHIRES

For sale-ligh class Aymhres, all ages, uncluding Caives and Bulls fit for service, and the sale of the River Side Farm - MONTEBELLO, Que

## Neidpath Ayrshire Bulls

I offer two particularly choice Yearly Bulls from R. of P. dams and grand-dams with high records, and by an Auchenbrain bred bull.

W. W. BALLANTYNE Phone.

STRATFORD, ONT.

AYRSHIRES Young Bulls and beffered on the control of the control o

ALEX HUME & CO., MENIE, ONT. Hoard's Station, G.T.R.

## **Burnside Ayrshires**

Winners in the show ring and dairy tests. Animals of both sexes. Imported or Canadian bred, for sale. Long distance phone in house.

R. R. NESS. HOWICK, QUE.

SUNNYSIDE AYRSHIRES.

Imported and home bred, are of the choicest breeding of good type and have choicest breeding of good type and have young bulk dropped this fall, sired by young bulk dropped this fall, sired by "Nether Hall Good-time"—2641—Imp., as well as a few females of various ago, for J. W. LOGAN, bowlet & Station, 264.

Dinna in house, 1

(Phone in house.)

### Ayrshires

World's Champion herd for milk and production. Some young bulls and buil akives, all from E.O.P. cows for sake akives, all from E.O.P. cows for sake the lot. Address of Tangiawyid in the lot. Address BROS. Tangiawyid Parm ROTESAY. ONTARIO

## LAKESIDE AYRSHIRES

We have a number of fine young bulls of different ages, all sired by our imported bull and the majority of them from dama entered or qualified for the record of performan. To make room or the winter we are prepared to offer these at attractive prices.

LAKESIDE FARM, PHILIPSBURG, QUE GEO. H. MONTGOMERY, Prop. 164 St James St., Montrea

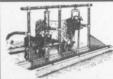
## CHOICE AYRSHIRES

A few young bull calves for sale. Write for prices.

P D. McARTHUR, North Georgetow, Howick Station on G T Ry. Oue

## Ayrshires for Sale

Bred for production and profit. Special Offering, 3 Bulls, 10 months old, weighing old base each, two bull calves, 2 months old and one four-year-old stock bull. Write GEO. H. STOKES, Onkland Stock & Dairy Farm, Tweed, Ont. Rell Phone



The Superior the only stanchion that you can adjust to tie from your smallest calf to your largest export steer. FERGUS, CANADA

### Stable Your Cattle the Superior Way

By no doing you will give them the greatest advantage in producing the maximum of the highest priced product. With SUPERIOR equipment you will have the greatest possible Sanistano, Geofort, extraction for very little expense. He had been supported by the support of the suppor

AGENTS WANTED

## The Best is None Too Good

Acting on this belief while at Byraciuse, New York State, this pass winter, I purchased some stock that would make the heart of any breeder gliad to own. Here is one of them, now dry, as photographed for me re-cently by an Editor of Farm and Dairy.



## Nicolo Pauline Friend

25.93 LBS. BUTTER IN 7 DAYS; 51.06 LBS. IN 14 DAYS.

This cow is sired by Clothide Friend Paul. he having 5 A. R. do sons. She is made of PONTIAC KORNDYKE, service fee of which bull is \$500. 1 am offered \$400 for the call from cow, be it bull or helfer.

service teo of which built. Seed: a moffered \$500 for the call from this cow, but built or helfer.

While this cow and some others I have in my stable are rather high-priced, I am working into High-resting Holsteins as a Speciality, and will be also a some some stable and the stable are rather high-priced, I am working into High-resting Holsteins as a Speciality, and will have some young atook that I am offering specially just now, this stock being from Prince Hengerveld of the Pontiacs, whose pletture and stock being from Prince Hengerveld of the Pontiacs, whose pletture and stock being from Prince Hengerveld of the Pontiacs, whose pletture and the prince of your distribution of the prince Hengerveld or you in this space last week.

Write me of young took that I am offering specially just now, this stock being from Prince Hengerveld of the Pontiacs, whose pletture and for the prince the prince of your prince of the Metropolitan Electric Cars. You are witemed to come at any time.

## THE MANOR FARM.

Gordon S. Gooderham, : : : Bedford Park, Ontario

SALES HAVE INCREASED MORE THAN ANY OTHER .

It is a well-known fact that, during the last three years, the sales of



# **Cream Separators**

have increased more than the sales of any other cream separator. There must be some reason or reasons for this great showing. These are some of the reasons:

Empire Separators skim to a trace. There isn't a machine made their equal for close skimming under difficult farm conditions.

They are easy to clean. They don't spatter oil. And they have anti-splash steel supply

So nearly frictionless they almost run themselves. Children delight in operating them, and can easily do so with perfect

They are durable. Years of service have proven their true worth. Their cost per year of service is less than any known separator. Years in advance of competing makes.

Your choice of the two standard methods of cream separation. We make both cone and disc machines. Both are fully explained in our latest catalogue. Send for a copy. Get reliable, accurate information on the subject.

EMPIRE CREAM SEPARATOR CO. OF CANADA, LIMITED. Winnipeg. Torento. Montreal,

Agents everywhere in Canada-Look for the Empire Sign.

## OUR FARMERS' CLUB Oerrespondence Invited

PRINCE EDWARD ISLAND.

PRINGE EDWARD ISLAND.

CARDIGAN, May 4-We are busy ploughing and harrowing land for seeding. A few early potatoes planted. Land is cold and damp. Seed is high Oats, 76:c potatoes, 66:; wheat, \$1.30 to \$2; timothy, 36:a h); clover, 26:t 536. Hay is bringing \$14 to \$16 a to pressed. No grain sowed up to date—H.P.

sowed up to date.—H. P. QUEEN'S CO., P. E. I. BAY VIEW, May 8.—Our Experimental Farm is arranging for more extended ex-Farm is arranging for more extended ex-periments with grain and vegetables. As herd of cattle, as well as hogs and poul-building the second of the second of the building as the second of the second of the them. An assistant second of the second of the been appointed Superintendent Clark will have a much larger staff employed this year, and he expect to have a consider-able acreage added to the farm in the most future—W.S. SECO.

QUEBEC.

COMPTON CO., QUE.

COMPTON, May 2.—We are having fine
eacher and farmers are beginning to do
eacher and farmers are beginning to do
eacher and farmers are beginning to do
eacher and farmers are beginning. weather and farmers are beginning to their spring cropping. Our roads very good at present as we have be smoothing them with the King drag-works fine and we are well pleased w it.—H. G. O.

ONTARIO

seed is very high.-J. D.
WATERLOO CO., ONT.

27c to Mc; eggs. 28c; milch cows. 850 to 370. veal, 7, for fronts, 8, for hinds. Grass seed is very high-J. D. which was backward spring. But this last week of backward spring, but this last week of warm weather is forcing growth along. Ground is in fine shape and spring seedings is about over, and now we are sowing in the seeding of the seedings of control of the seedings of clover and the seedings of clover and the seedings of clover and along the seedings of clover and affalfa are also very thin. Hay is 50 \$25.0 a bar; butter, 800.0 cf. 1.8. OXFORD CO, ONT.

WOODSTOCK, May 7.—We are busy seedings of clover and affalfa are also very thin. Hay is 50 \$25.0 a bar; butter, 800.0 cf. 1.8. OXFORD CO, ONT.

WOODSTOCK, May 7.—We are busy seedings. Land is in good shape: works fine. OXFORD CO, ONT.

WOODSTOCK, May 7.—We are busy seedings. Land is in good shape: works fine. Cold. dry weep poor; too much ice and cold. dry weep poor; too much ice and cold. dry weep poor; too much ice and cold. dry weep poor too much ice and a cattle are very thin. Quite a number are building allos, a few being built already all concrete. It is claimed they give good antisheaded the seed of the service of the service of the seed of the service of the

BRITISH COLUMBI

BRITISH COLUMBIS,
NEW WESTMINSTER DIST. B.C.
CHILLIWACK, April 29.—Crops are do
ing fine. Most of seeding is cine. Pature is good. We are having levely wature is good. We are having levely wature, with occasionally a few shown,
Fruit trees are in blossom, and many of
the spring birds, such as the robin and
warlow, are here.—J. C.

LARGE COWS MOST PROFITABLE Malcolm H. Gardiner, Delewan, Wi. In a recent issue of our A. R. O. reper the Illinois cow Blue Label Queen head In the 40 days she produced 13.55 to fair from 5.877 lbs. milk: showing an assa of over 90 lbs. milk and over the lbs. fat a day. The fat would have made of over 40 lbs. fat a day. The fat would have made over the local state of the fat of the fat and the fat a day. The fat which considered the fat of the f

days.
"But," says some short-sighted farmedairyman anxious to make his feed bold out, "such a cow would eat up all one feed; even the barn itself would not be age." feed; even the barn itself would not be safe." Eat! of course she, ate; that he what Holstein-Friesian cows are for Consafe." Eat! of course the bounds in safe." Eat! of course the bounds of the what Holstein-Friesian cow have forge pared with a good Holstein cow. Give Treist wann't even in it for appetite; all the main claim that our breeders make for her is that she is the greatest day; and the main claim that our breeders make the problem of the pr

lar's worth of food into more money that will the cows of any other dairy bred In this they are right; but in this line is mileh goat will beat the Jersey cow to frazzle. Why? Because the goat is the Frazile. Why? Because the goat is the feet and the feet and the feet and the feet and the feet as an extra an inner value from a delare worth of the feet and the floises. But if the feet as the floises worth of the feet and the floises. Friestan, is also not taken the floises friestant animal? By no means. Why? Despose that a man has a large cow at a small cow and that after each east great worth of feed the small cow has returned worth of feed the small cow the floises of the floi

cow is SI absed is about 15 to the small cover in the small cover requires four engines for months and months and that the owner pays out for a further supply of feed for the large cow, which also turns into \$84 in and Thom at the end of the fourth month the state owner as a small cover in the state of the same and the state of the same and the state of the same and the small cow; but does the farmer-dairy

DAIRY NOTES. A big argument for winter dalrying b

the thriftiness of the fall calf. "A place for everything and every thing in its place" is an excellent rule a observe in the dairy stable.

Pure-bred stock are an excellent for dation for successful dairying, but the profit they yield depends on the liberally of the feeder.

......... JER9 \*\*\*\*\*\*

May 16, 1

The firm of hay ampton. have re-bred Jersey. These animals in the Cambonds in Torcought the number the larger brought in JERSEY monting Brooders

Toronto, it ding farm partisements prizes for Jer ike the best se prizes will nmittee to de he first herd the first herd b is nearing thished short! The club is or rations of Jerse the Record of its will be pub

GOOD JER The following leid, secretary lattle Club sho

"We have compy cattle. W. is see, Ont., is the sting of seven eifers, three years and under nd under; one iree grade cowi "Among the lot Lily, 181,393, w that gave up to February west butter for out 60 days h e would proba nt the last m e slipped her hile we were, t tribute this to

"Another was O.J.O.O., a two year. She gave 55 days, test 5 heifer is a picturalued her in the ned again on 1 1 to 35 lbs. a Fith proper han

Eco on Milk i

Make I calves at the You can do

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CALFINE & atritious m duty to pay. Feeding dir

Ask your dedoes not hand order for \$2 100 lbs. to as We pay the !

CANADIAL MILLING TORON 16, 1912.

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### ...... JERSEY NEWS

The firm of B. H. Bull' and Son, of empton. have recently imported 117 are bred Jerseys from the Island of Jerg. These animals were kept for some me in the Canadian National Exhibition ng the Canadian National Exhibition nds in Toronto, where their increase ght the number up to 140. It is said to the largest importation of eattle brought into Canada.

JERSEY BREEDERS ACTIVE

IRREFY BREEDERS ACTIVE
is a meeting of the directors of the left
leger Breeders' Cattle Club held recently This
pressto. It was decided to spend \$500 ites
getertining Jersey cattle in the three
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sized from papers of Ontario. Regular
dispers at intervals in each of these
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day prize for Jersey owns that qualify and
Jain the best records in the Becord of security
deformance test. The details of how
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insuite to decide. se prizes will be awarded was left to a smittee to decide.

The first herd book to be issued by the b is nearing completion and will be shilled shortly. The club is ondeavoring to secure illus-rations of Jersey cows that have qualified in the Record of Performance test. These cis will be published in the farm papers advertise the breed.

GOOD JERSEYS FOR CANADA

The following letter received from A. W. (Laton, Strathcona, U.S.A., by Mr. R. (Laton, Strathcona, U.S.A., b

"We have completed the sale of our Jer-"We have completed the sale of Ganano-as Ont. is the purchaser; 25 in all, con-sing of seven purchered cows; three elfers, three years old; five heifers, two sars and under; four heifers, one year ad under; one bull, three years and

d under: one bull, three years and regrade cows.

'Among the lot was Lady Cartner's East-tily; 18,338, A.J.C.C., a seven-year-old as that gave us from February 14, 1911, y to February 15, 1912, 9,973 bbs. milk. west butter fat test 5.3, highest 6.7. est butter fat test 5.5, highest 5.7, at 60 days before finishing her year, would probably have tested seven per she would probably have tested seven per sent the last mouth, but, unfortunately, she slipped her call 10 days after test while we were, trying to dry her up. We attribute this to getting frozen ensilage. "Jancher was Pride's Mystery, 1618, GJ.G.O. a two-year-old under test last believed by the sent of the sent of the Bid days, test 5.4 to 7 per cent. This bid days, test 5.4 to 7 per cent. This bid days, test 5.4 to 7 per cent. This bid days, test 5.4 to 7 per cent. This bid days the sent of the sent of the sent bid again on March 11, and was giving the sent of the sent of the sent of the With proper handling she should be heard from.

## Economize on Milk for Calves and Make More Money

Raise healthy, thrifty, vigorous You can do this by using

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CALFINE is a Pure, Wholesome, utritious meal for calves. It is nade in Canada, and you have no duty to pay

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"The cow and heifer under test were not "The cow and heifer under test were not forced, but were on regular ration they would have received without being under test, viz., one pound of grain to each three pounds milk produced at the maximum flow."

ALL FORMER RECORDS BROKEN

ALL FORMER RECORDS BROKEN
Editor, Farm and Dairy-orthe readers
of Farm and Dairy would be interested in
the state of the s

J. W. Stewart, of Lyne, and myself have secured a son of Fairview Lady Korndyke, no two years old. "e was aired by Rag Apple Korndyke, a son of Fontiae Hadden to the Company of the Compa in seven days. She also gave 25,318 lbs. of milk in one year and made a worl's re-cord of 1,271 lbs. butter in one year, 75 per cent the same breeding as Pontisc Pet, 37.58 lbs. in seven days. These two cows were daughters of Pontisc Clothilde Dokol, a 25-pound daughter of Hengerveld

We could write a book about the an-cestors of this great bull. Space will not permit. Where can you find anything greater than a son of a 35-pound cow, whose dam has a record of 29 lbs. at four years old, sire's dam, 35-pound record at four years old? Anyone wishing service of this bull can secure same for \$100 per cow. For further particulars write J. per cow. For further particulars write J. hard, Manhard P. O., Ont.

DETAILS OF BELLEVILLE SALE Consigned by S. J. Foster, Bloomfield Quidee DeKol 2nd, \$165, Jas. Fitzgerald.

olloway [Solloway. Saddie Queen. \$160, H. Smith, Winnipeg. Consigned by E. B. Mallory, Frankford Rosa Omega, \$200, H. Smith. Sylvia Trenton of Glensprings, \$165, G.

Consigned by Irvine Hambly, Bay Center, Ont.

Viotoria Johanna Burke, \$160. J. B.

Consigned by R. G. Way, Trenton na Verbelle, \$215, Andrew Little, Trenton.

Trenton.
Queen Triumph, 8200, H. Smith.
Consigned by C. H. Saylor and Peter Cave,
Bloomfield, Ont.
Lilly Butter Girl, 8160, J. C. Drury.
Consigned by G. A. Kingston, Campbelliord
Princess Beta of Harlaam, 8235, Jos.

Princess Lillian of Harlaam, \$200, Jos.

Consigned by E. R. Tate, Lakefield, Ont-Jessie 2nd's Inka Wayne, \$190, H. S

Anna Belle Marie, \$170, Jos. Kilgour.

A PROGRESSIVE ADVERTISER

A PROGRESSIVE ADVERTISER
Mr. Gooderhum, notes on whose Holsteins appeared in Farm and Dairy
last week, looks upon his farm and
his cattle with the eye of a progressive
business man. His experience with certiried milk and the public in Toronto have
taught him the value of advertising. He
has started in now to make his eattle
known to Holela Extract—about the known to Holstein breeders and other breeders of dairy cattle throughout the length and breadth of Canada by adver-tising liberally each week in Parm and Dairy, which reaches these people he de-sires to interest, and with whom he can do business. Mr. Gooderham's advertisedo business. Mr. Gooderham's advertise-ment will occupy one-quarter page space in every issue for practically the whole of a year at least. As a business proposi-tion, Mr. Gooderham's advertisement is a sound investment; and it represents him in reality using the value of one of his better cown to advertise and make sale for the other 100, and their increase.

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them to the farmer. Another important recommendation is the tight-locking patented 'hook' that forms an
absolutely weather-proof surface which
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both sides and ends. IMPLICITY in itself is no reco

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security.

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The value of this be a famor as a work of present and future reference can scarcely be a famor as a work of present and future reference can scarcely be a famor as a work of present and the can be a famor as a work of present and the can be a famor as a famor and the can be a famor as a famor and the can be a famor and

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