

VOL. XXVIII

NUMBER 9

RURALATOME

PETERBORO, ONT.

MARCH 4 1909



THERE SHOULD BE AN ORCHARD AND GARDEN ON EVERY FARM

There is pleasure and profit in the growing of fruits and vegetables. A small plot of ground near the house will yield an abundance of these things for the home table; a larger area, properly planted and well-kept, will give a money return that could be had from this sideline on any farm. The little time and labor required to care for it will well repay the owner. The illustration was taken in Simcoe Co., Ont. See article on page 13.

DEVOTED TO

BETTER FARMING AND SANADIAN GOUNTRY LIFE

> Garden Number PRICE IO CENTS

NEVER HAD AN ACCIDENT

You will have to go a long way to find a person who has had an accident with a Simplex bowl. And what's more! A worn out

SIMPLEX LINK-BLADE SEPARATOR

is as scarce as hen's teeth. There are several reasons why this Separator has the reputation of being a "no break, no wear" machine.

The "Simplex" bowls are made of a very



ductile grade of seamless steel tubing, that even if it were subjected to an extreme pressure would stretch, but would not fly to pieces. The spindles are made of a special grade of high carbon steel, heat treated, to increase their toughness.

There is no safer or st.onger bowl than the low speed "Simplex" bowl, and this is a point that you should think about especially in these days of cheaply built, high bowl speed separators.

Our aim is to make a Cream Separator that is stronger than is actually necessary. When you buy a Separator buy a good one. The safest way is to get in touch with our nearest agent.

D. Derbyshire & Company

flead Office and Works: BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT.

MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS FOR A FEW UNREPRESENTED DISTRICTS

COAL AND ICE HANDLING MACHINERY TOOLS Gifford Woodlos. PLOW HUDSON, N.Y. CHICAGO, ILL. ARLINGTON, MASS CHICAGO, ILL.
ARLINGTON, MASS.

It is desirable to mention the name of this publication when writing to advertisers the market is likely to forecast the turns the market is likely to take.

Alberta May Enter Pork Industry

Alberta may taiter to a triascast,
The Province of Alberta is considering the advisability of embarking
in the bacon industry. A provincial
port commission appointed some time
ago has recently reported to the Legislature. Their recommendation is
that the government equip and operate a packing plant of a minimum
capacity of 300 per diem, whenever
how-growers give assurance of an bog-growers give assurance of an annual supply of 50,000 hogs, the management to pay two-thirds of the hogs' value down, and the balance (minus expenses and one-quarter management of pay wountries of such bogs value down, and the balance (minus expenses and one-quarter cent a pound for paying back the original outlay by the government and interest), to be paid after a reasonable period for marketing. Shares would be allotted to patrons equal to one-quarter per cent. for a sinking fund, and when the government indebtedness is paid off, the money would be used to pay interest on shares. Patrons would guarantee to give all hogs to the plant, under the green of the Aberta Legislature, the part of the Aberta Legislature, the question of sending a commission of sending a commission of increasing importance. The Danes on increasing importance. The Danes on increasing importance. The Danes it is understood, owe much of their success in producing bacon to govern-ment direction of their packing plants. ment direction of their packing plants. The proposed commission as suggested by Farm and Dairy could go thoroughly into this matter. Information secured upon this point would be of inestimable value to Alberta should the legislature decide to adopt the recommendations of the provincial pork commission. The Dominion Government would have the backing of the farmers throughout the Dominion in farmers throughout the Dominion in arranging and sending the proposed commission which would be of such vital concern to all.

Model Factories and Farms

"I would like to see model cheese factories and model farms established sactories and model farms established in every county in the province," said Mr. A. Ayer, of Montreal, the well-kinown cheese exporter, at the recent control of the Eastern On-tario Dairymen's Association. "The decilin our dairy exports," said Mr. Ayer, "is due in part to the fact that we are not making the improvements has we should. We are not weeding our compoundation of the control of the "Montreal has appointed inspectors

"Montreal has appointed inspectors to examine the quality of the milk sold in that city. Why should we allow factories to receive poor milk and to make it into cheese. We cannot make good cheese as long as poor milk is taken at the factories."

Manage thought that if they were

milk is taken at the factories."

Mr. Ayer thought that if there were
model factories and farms in every
county, that would serve as object
lessons to the people in their respective sections, he believed that it
would pay the counties of the protown such buildings and
farms. Almon such buildings and
farms. Almon such who del
as a wealthy man, and as one who as
made a great success of his extensive as a wealthy man, and as one who has made a great success of his extensive business operations in Montreal, he stated that if he had his life to live over again, he would choose the life of a farmer as being the life which has, everything considered, the most advantages and the greatest freedom.

The farm, and Mr. Ayer, it is not a superfect of the farm, and Mr. Ayer, it is not a superfect of the farm and the farm and the farm and the farm and the farm that is in the city." Mr. Ayer pointed out that there is a stability about the operations of the farm that is lacking in many business enterprises, the promany business enterprises, the pro-

The Country Life Report

In addition to the passages in President Roosevelt's special message to dent Roosevett's special message to congress with the report of the country life commission, which we quoted last week, the president says other things that are worth noting.

The president says: "To improve The president says: "To improve our system of agriculture seems to me the most urgent of the tasks which lie before us, but it cannot in my judgment be affected by measures which touch only the material and technical side of the subject. The whole business and life of the farmer whole business and life of the farmer point the commission on country life.
Our object should be to help develop in the country community the great ideals of community life, as well as of personal character. One of the of personal character. One of the most important adjuncts to this end must be the country church, and I invite your attention to what the commission says of the country church and of the need of an extension of such work as that of the Young Men's Christian Association in country communities. Let me lay make the complexity of the country of the country communities. in country communities. Let me lay special emphasis upon what the com special emphasis upon what the com-mission says on personal ideas and local leadership. Everything resolves itself in the end into the question of personality. Neither society nor government can do much for country life unless there is voluntary response in the personal ideas of the men and in the personal ideas of the men and women who live in the country.

"In the development of character the home should be more important than the school or than society at large. The influence of the farmers and farmers' wives on their children becomes the factor of first importance in determining the attitude of the next generation toward farm life. The farmer should realize that the The farmer should realize that the person who needs most consideration on the farm is his wife. If the woman shirks her duty as housewife, as home-keeper, or as the mother whose prime function is to bear and rear a sufficient number of healthy children, then she is not entitled to our regard, but if she does her duty she is more entitled to our regard even than the man who does his duty, and the man should show special consideration for her needs."

The country life commission afters

The country life commission, after emphasizing the need and demand for better roads, extension of rural free delivery of mail and a parcel post,

delivery of mail and a parcel post, sa 73:

"There must be a vast enlargement of voluntary organized effort among farmers themselves. It is indispensable that farmers shall work together for their common interest and for the national welfare. If they do mail to the common interest and for the national welfare. If they do mail to the common interest and the common interest interest in the welfare of these who pay the school taxes. Education by means of agriculture is those who pay the school taxes. Education by means of agriculture is those who pay the school taxes. Education by means of agriculture is those who pay the school taxes. Education by means of agriculture is those who pay the school taxes. Education by means of agriculture is the pay the conditions that surround the business of farming and the people who live in the country in order to take stock of our resources and to supply the farmer with knowledge." "There must be a vast enlargement

it is grow trict and cordi

For

cularl

plan

local

For

some

Cana ies in

there

Domi Middl follow stein. Blenh ing, Russe Pears Flemi Winte geau. -Gold

Abund

Saippe

Monar

much Oxhea In g Mr. Vi Early, gara. are gr Downin

of sma

market

For 1 ericton Red As Star, V McInto G. Rus

Each Week

Vol. XXVIII.

FOR WEEK ENDING MARCH 4, 1909.

No. 9

a Year

THE BEST VARIETIES OF FRUITS FOR ALL CANADA

The Kinds that are Worth Growing in each Province-Select Standard Sorts for Planting-Test Novelties.

EGINNERS in fruit growing and even experienced orchardists are often at a loss to know what varieties of fruit to select for planting. Local conditions, soil and climate vary so widely that many varieties that do well in some localities are failures in others. The demands of the market also have an important bearing on the selection. Fruits that are most acceptable in the home market are often useless for export. For the benefit of the readers of Farm and Dairy some of the leading authorities in all parts of Canada have prepared lists of the standard varieties in their provinces. Some of these are published below. They are offered not with the idea that there are not other varieties just as good, but as a guide to intending planters. When selecting, it is well to learn from the most successful

growers in the particular district that the orchard is to be planted, what varieties have done best with them and then be governed accordingly.

NOVA SCOTIA

For Nova Scotia and particularly for the Annapolis valley, Mr. G. H. Vroom, Dominion Fruit Inspector. Middleton, recommends the following: Apples - Gravenstein, Wealthy, Ribston, Blenheim, King, R. I. Greening, Stark, Fallawater, G. Russet, Spy, Nonpareil; Pears - Clapp's Favorite, Flemish Beauty, Bartlett, Bosc, Louise Bonne, Howell Winter Nelis, Anjou, Clairgeau, Comice, Hardy; Plums -Golden Prolific, Burbank, Abundance, Grand Duke, Snipper's Pride, Lombard, Monarch, Washington, Dam-Victoria, German

Prune; Peaches-Crosby, Waterloo; Cherries (not much grown except for home use)-Gov. Wood, Oxheart, Tartarian, English Morello.

In grapes which are not grown extensively, Mr. Vroom recommends Moore's Early, Campbell's Early, Champion, Delaware, Brighton, and Niagara. All the leading varieties of strawberries are grown. Cuthbert and Herbert raspberries, Downing gooseberries and most all other varieties of small fruits are grown for home use and local markets.

NEW BRUNSWICK

For New Brunswick, Mr. J. C. Gilman of Fredericton offers the ollowing selection: Apples-Red Astrachan, Duchess, Dudley Winter or North Star, Wealthy, Alexander, Wolf River, Fameuse, McIntosh, Bishop Pippin or Yellow Bellflower, G. Russet; Plums-Moore's Arctic, Golden Prolific, Lombard, Green Gage; Cherries-Early Richmond; Currants-Red Dutch, Fay, Versailles, Cherry, White Grape, Black Naples; Strawberries-Crescent, Warfield, Senator Dunlop, Splendid, Glen Mary, Bubach, Sample; Red Raspberries-King, Herbert, Cuthbert, Golden Prolific; Blackberries-Snyder, Taylor, Agawam, Wachusett Thornless; Gooseberries-Downing, Pearl, Houghton.

PRINCE EDWARD ISLAND

For Prince Edward Island, the following list of varieties is the selection of Mr. Johnston of Long River: Apples-Crimson Beauty, Yellow Transparent, Red Astrachan, Duchess, Wealthy, Alexander, Wolf River, Stark; Pears-Clapp's Favorite, Bartlett; Plums-Saunders, Moore's Arctic, Victoria, Lombard, Damson; Cherries-



The King of Small Fruits is the Strawberry

The dilustration shows a strawberry picking scene in Peel Co. Ont., last summer. Every farmer cannot have an large plantation as this, unless he is in the business for money, but he should have at least a few rows plantel lear the home to supply the home table.

English Morello; Blackberries-Snyder, Agawam; Currants-Cherry; Gooseberries-Downing, and Houghton.

OUEBEC

For Quebec, a list of the most popular varieties, furnished by Prof. G. Reynaud of La Trappe, is as follows: Apples-Yellow Transparent, Lowland Raspberry, Montreal Peach, St. Lawrence, Duchess, Wealthy, Alexander, Wolf River, McIntosh, Fameuse, Pewaukee, Salome; Pears-Flemish Beauty; Plums-Early Yellow, Nicolas, Niagara, Perdrigon, Lombard, Bradshaw, Green Gage, Reine Claude, Pond's Seedling, Geuii, Coe's Golden Drop; Cherries-Early Richmond, Empress Eugenie, Louis Philippe, Large Montgomery, English Morello, May Duke; Grapes-Champion, Moore's Early, Moore's Diamond, Concord, Delaware, Rogers' Vergennes, Niagara; Strawberries-

Bederwood, Wilson, Sharpless, Uncle Jim, Sample, Bubach; Red Raspberries-Cuthbert, Marlboro; Currants-White Grape, Cherry, Fay, Versailles, Lee's Prolific, Black Naples; Gooseberries -Downing, Whitesmith, Smith's Improved, Triumph, Houghton, Red Jacket, Pearl, Industry.

Another list of standard varieties for Quebec was prepared by Prof. W. S. Blair of Macdonald College, as follows: Apples-Yellow Transparent, Duchess, Wealthy, Fameuse, McIntosh Red, Milwaukee, Canada Red, and G. Russet; Pears-Flemish Beauty and Clapp's Favorite; Cherries-Montmorency, Early Richmond, Ostheim, English Morello; Red Raspberries-Marlboro, Herbert, Cuthbert; Purple Raspberries-Columbian, Shaffer; Black Raspberries-Older, Hilborn; Blackberries-Snyder, Agawam; Red Currants-Wilder, Pomona; White Currants-White Grape; Black Currants-Victoria, Champion; American Gooseberries-Pearl, Red Jacket; English Gooseberries -Whitesmith, Industry; Strawberries-Senator Dunlop. Sample, Marshall, Dornan; Grapes-

Campbell's Early, Moore's Diamond.

ONTARIO

For Ontario, the most satisfactory varieties for general planting, according to Mr. J. W. Crow, Ontario Agricultural College, Guelph, are as follows: Apples - Duchess, Alexander, Wealthy, Snow, R.I. Greening, Baldwin, Spy, Ben Davis; Pears - Clapp, Bartlett, Duchess, Kieffer; Cherries - Richmond, Montmorency; Peaches-St. John, Early Crawford, Fitzgerald, Elberta, Smock; Plums-Burbank, Bradshaw, Shipper's Pride, Grand Duke, Reine Claude; Grapes - Moore's Early, Delaware, Lindley, Concord, Niagara.

The standard varieties of small fruits recommended by Mr. Crow are, in Blackberries -Agawam, Snyder; Raspberries-Marlboro, Her-

bert, Cuthbert; Black Raspberries-Hilborn, Gregg; Purple Raspberries-Columbian, Shaffer; Black Currants-Lee's Prolific, Naples; Red Currants-Cherry, Fay, Victoria; Gooseberries-Pearl, Red Jacket, Whitesmith; Strawberries-Van Deman, Bederwood, Splendid, Senator Dunlop, Sample, Williams.

A list of varieties more or less similar to the one recommended by Mr. Crow is the choice also of Mr. P. W Hodgetts, secretary of the Ontario Fruit Growers' Association. A few additional sorts are mentioned by Mr. Hodgetts as follows: Apples-Gravenstein, McIntosh, Blenheim, King, Hubbardston, Stark; Pears-Boussock, Howell, Bosc, Clairgeau, Anjou, Winter Nelis, Lawrence; Cherries-Wood, Knight, Napoleon, Tartarian, English Morello; Feaches—Brigdon, Reeves; Plums—Red June, Geuii, Lombard, Monarch,

Yellow Egg; Grapes—Campbell's Early, Worden, Wilder, Agawam, Vergennes.

MANITOBA

For Manitoba, the following list is recommended by Mr. A. P. Stevenson, of Nelson: Apples—Volga Anis, Repka, Kislaga, Blush Cal-ville, Ukarine, Lowland Raspberry, Charlamoff, Anisette, Peerless, Simbrisk, Wealthy, Antonofka, Hibernal; Crabapples—Transcendent, Whitney, Phillips, Hyslop, Minnesota, Gen, Grant; Plums—Ocheeda, Cheney, Aitken, Mammoth, Wood, Bixley, Wyant; Cherries—Compass Cherry (for southeastern parts); Grapes—Beta, Moore's Early (for southeastern parts).

The small fruits that have grown successfully on Mr. Stevenson's plantation are: Gooseberries—Houghton, Smith's Improved, Rideau, Mabel, Joslyn, Champion; Red Currants—Stewart's, Raby Castle, North Star; White Currants—White Grape; Black Currants—Lee's Prolific, Naples, Climax; Red Raspberries—Loudon, Shipper's Pride, Minnetonka, Sunbeam, Kenyon; Purple Raspberry—Shaffer; Black Raspberries—Older, Hilborn; Strawberries—Bederwood, Senator Dunlop, Gandy.

SASKATCHEWAN

For Saskatchewan, fruits that have done well in some parts of the province and that reasonably may be expected to give satisfaction in most districts where fruit growing has been more or less satisfactority conducted are recommended by Mr. Angus MacKay, Superintendent, Experimental Farm, Indian Head, as follows: Crabapples—Wild Siberian, (Pyrus baccata), Silvia, Golden, Cavan, Aurora, Northern Queen, Novelty, Pioneer, Prince, Charle Tony; Plums—Aitken, Weaver, De Soto, Manuscha wild plum, Cheney, Carsterson; Cherries—Sand, Compass, Pin and Choke cherries.

The varieties of small fruits that may be planted, according to Mr. MacKay, are the following: Strawberries-Dunlop, South Dakota No. 1, South Dakota No. 2, Bisel, Daisy, Daniel Boone, Johnson's Early, Alpine, St. Antoine, St. Joseph and Jean d'Arc; Red Raspberries-Dr. Reider, Marlboro, Cuthbert, Herbert, Miller, Turner, Mary, Garfield, Columbia, Palmer; Yellow Raspberries Golden Queen, Caroline; Black Raspberries-Hilborn, Older, Red Currants-Red Dutch, Victoria, Raby Castle, Fay; White Currents-White Cherry, White Imperial, White Grape, White Dutch; Black Currants-Lee's Prolific, Magnus, Climax, Black Naples; Gooseberries-Houghton, Smith's Improved, Pale Red, Red Jacket, Carrie, Saunders, Downing, Edna, Companion, Industry.

BRITISH COLUMBIA

For British Columbia the following list of varieties has been compiled from a report of the Board of Horticulture of the Provincial Department of Agriculture: Apples—Yellow Transparent, Duchess, Gravenstein, Wealthy, Cox's Orange Pippin, King, Spitzenberg, Red Cheek Pippin, Spy,Newton Pippin; Crabapples—Hyslop, Martha, Transcendent; Pears—Bartlett, Boussock, Louise Bonne, Clairgeau, Hardy, Anjou; Plums—Peach Plum, Prince Englebert, Monarch, Pond's Seedling, Yellow Egg, Italian Prune; Cherries—Royal Anne, Windsor, Black Tartarian, Bing, English Morello, Belle Magnifique, Olivet; Peaches—Hale's Early, St. John, Early Crawford, Early Charlotte, Elberta; Grapes—Campbell's Early, Moore's Diamond.

The varieties of small fruits best suited for British Columbia, according to Mr. R. W. Hodson, Live Stock Commissioner, are as follows: Strawberries—Magoon, Improved Sharpless, Paxton; Raspberries—Cuthbert, Antwerp, Golden Queen, Fillbasket; Blackberries—Erie, Snyder, Logan, Evergreen, Phenomenal, Mammoth; Dewberry—Lucretia; Gooseberries—Champion, Industry, Red Jacket, Whitesmith, Victoria; Currants—Fay, Cherry, Lee's Prolific, Black Naples, White Grape.

Send photographs of orchards for publication in Farm and Dairy.

Renovating The Neglected Orchard

J. C. Harris, Oxford Co., Ont.

It is conceded by our best orchardists that one acre of apple orchard well cared for will give as much profit as 10 acres of any other farm crop. In other words, a 10-acre orchard of the right varieties on a 100-acre farm can be made to produce as much net profit as the remaining 90 acres in farm crops. If this be true, surely we will be well repaid for systematically caring for whatever orchard (large or small) we may have



A Familiar Scene in Some Localities

When an orchard becomes so neglected as this, it should be done away with altogether and re-planted. The photograph was taken in Brant County, Out.

on our farm. I do not purpose in this paper to go into details but rather to give a few general points that are apt to be overlooked by the beginner in fruit growing.

In our locality, many of the orchards (I include all unsprayed ones) look unhealthy and not thrifty. The life of our trees, where not sprayed, is sapped by insects and fungi. We should no more expect to see paying crops on these orchards than we would expect to get a profit from our animals if they are covered with lice.

If I had an orchard that has been neglected for some years, I would endeavor to get at least one-half a load of manure under each tree this winter, commencing about two feet from the trunk of the tree and spreading it out as far as the branches extend.

PRUNING

In the spring, start pruning as soon as the weather is favorable. Prune to keep the tree symmetrical and open. Avoid cutting large limbs as much as possible. Trim with a ladder from the outside of the tree, thinning the ends of the limbs so as to let in the sun and air. Be careful to encourage and protect the fruit spurs, on the limbs on the inside of the trees. These little twigs or fruit spurs along the limbs are where we find our choicest fruit. We do not want clusters of fruit on the outside of our trees.

Some time ago an old man who has made a business of pruning in our locality for many years, came to me for a job. I thought it a chance of getting some new idea on the subject. He took the saw and commenced clearing the limbs of all their fruit spurs. I can assure you that he did not continue very long.

SPRAYING

When the trees are pruned and open they are ready to spray. Should there be no scale in your district, it will not be necessary to spray until the blossoms are beginning to fall. This spraying is the pivot of success of the entire operation for the destruction of the codling moth and apple scab. Do not wait until the blossoms are all fallen. Do the work thoroughly. Put on lots of material (drenching a little won't hurt). Spray four sides of each tree this spring if possible. Any part of the tree missed when going north and south can be easily seen when going east and west and the tree thus is completely covered.

I apply two later sprays, one about 10 days later, the other two or three weeks later. I use

six pounds bluestone, eight pounds lime, six or seven ounces of Paris green to 40 gallons of water prepared the usual way. I intend this season to use arsenate of lead instead of Paris green, as it is more certain.

A few of the important points to be remembered in spraying are: .

1. Have a good outfit with high derrick so that you can see well what you are doing.

Keep the liquid well stirred or your efforts will be fruitless.
 Start in time. Do not wait for the weather.

Spray with the wind, if possible.

4. Be sure that your lime is fresh and put in

Be sure that your lime is fresh and put in plenty.

5. Remember that the June spraying, as blossoms are falling, is the most important. Do it thoroughly. This one spraying with no more will give excellent results in most seasons, but spray once or twice more if you can.

THINNING FRUIT ON TREES

Thin a few of your overloaded trees, taking off all small and inferior fruit (which can be done with little expense) and see what a wonderful difference there is in your apple crop of 1909, compared with last year. Many farmers in our district who paid little attention to their orchards two or three years ago, are now considering the orchard the best asset on the farm and are giving it every care. Try it this year and you will not require to be asked to do so in future.

Lime-Sulphur Wash for Spraying

The lime-sulphur wash has come into prominence as a successful remedy for treating the San Jose scale on fruit trees. It is an excellent combined insecticide and fungicide; that is, it may be used for treating both insects and diseases. Among the apple tree pest that this remedy will control effectively is the oyater shell scale. Its preparation is described by Mr. Robert Thompson, St. Catharines, Ont., as follows:

"The lime-sulphur wash can be prepared by boiling with the heat of lime, but this is not safe to depend on as some of the barrels may not get sufficient cooking, owing to some defect in the lime, or something else may result, where this is applied, in not killing all the scale. A better plan is to arrange for a number or growers to have an engine or boiler and cook by steam.



A Spray Pump on a Stone-boat

Where the orchard is near the place where the spraying mixture is made, this is a convenient way of mounting a spray pump for use when the frost is coming out and the ground is soft.

Where this is not available, an agricultural boiler can be rigged up. Where the steam is used, the cooking can usually be done in about an hour. When the agricultural boiler is used it will take longer. When boiled with steam or agricultural boiler bring twelve to fourteen gallons of water to the boil, then throw in twenty pounds of good addi gallo "(C the then way, is poin only also ture spray

Th

years

arous

of pr

M

lime

puly

loss. some light cover board was (on so reme ded o nurse volun nish in th St. J ed. in A

The

last s

St. J

a sick

I got

enoug

stock

along

first-c

Julian

One spring grown The secarly is can be grow for be hadd garden who g each y

Dairy, follows
"I see in Aug The gr or coa plants spring this cr market crop w spinach until e from 75

"To a Kitney, will gro fence w drift an same e

crop bi

lime and quickly add eighteen pounds of finely pulverized sulphur. Stir occasionally. Dilute by adding enough water to make forty to fifty gallons.

"Commence spraying early in the season. Spray the sides of the trees from the windward side, then watch until the wind blows from the other way, and do the other side; a good stiff breeze is preferable. This helps to carry the spray to points on the opposite side of the tree and not only insures better and more thorough work, but also obviates the disagreeable features of the mixture falling back on the clothes and person when spraying is done in calm weather."

To Make Peach Trees Hardier

A. M. Smith, Lincoln Co., Ont.

The destruction of peach orchards for several years in the Essex peninsula by root freezing aroused the attention of planters to the necessity of providing some remedy or prevention for this loss. Cover crops and mulching were tried with some measure of success but, on account of the light sandy soil, it was difficult to produce a good cover crop and mulching was expensive. board of control of the experimental fruit stations was consulted. They suggested growing the trees on something hardier than their own roots as a remedy. They tried to purchase some trees budded on plum but could find none, either at the nurseries in Canada or the United States; so, I volunteered to grow them some if they would furnish me the stocks. Accordingly they sent me in the spring of 1907, 500 each of Americana and St. Julian plum stocks which were carefully planted. They made a fair growth and were budded in August.

The buds took fairly well and made a good start last spring, but about mid-summer, those on the St. Julian stock stopped growing and had quite a sickly appearance (something like the yellows), I got only ten trees out of the entire lot big enough to plant last fall. Those on the Americana stock made a vigorous growth, quite equal to some alongside of them on peach roots. I got over 300 first-class trees out of the 500 budded. The St. Julian will have to be grown another year and it is not likely that they will ever be good trees.

How to Grow Spinach

One of the most popular greens for table use in spring and early summer is spinach. It is easily grown and should be found in every farm garden. The seed may be sown in hotbeds or cold frames early in spring or outdoors as soon as the ground can be worked. It is also a profitable crop to grow for market. The earliest spinach of fall may be had by sowing the seed in the fall. A market gardener in Peterboro Co., Mr. Charles Kitney, who grows about an half an arce of this crop each year, and who recently called on Farm and Dairy, gives his experience with spinach as follows.

"I sow the seed broadcast about the last week in August. The best variety is Large Flanders. The ground should then be mulched with straw or coarse manure. This helps to protect the plants and to drain off the surface water. In spring it is not necessary to weed or cultivate this crop. It grows rapidly. The first lot for market usually is cut about the first of May. The crop will last about one month. Spring-sown spinach comes in when this is done and lasts until early cabbage. The early spinach sells from 75 cents to \$1.00 a bushel. The spring-sown crop brings less money but is more plentiful.

"To grow spinach successfully," concluded Mr. Kitney, "a suitable location must be chosen. It will grow best on the southern side of a hedge or fence where it will be protected. The snow should drift and lie on it. Spinach will stand about the same extremes of temperature as fall wheat."

An Experience with Small Fruits

A. W. Peart, Halton Co., Ont.

Some valuable information about the growing of currants, blackberries and raspberries was given by Mr. A. W. Peart, of the Burlington district in an address delivered some time ago to growers in that locality. Mr. Peart spoke in part as follows: "We have tested some thirty or forty varieties of red and black currants. Only a few of them have been found good. The red currants that have been successful include the old Cherry, Victoria and Wilder, the latter being a new variety. The North Star and Prince Albert also have done well. These varieties cover the season well, the Prince Albert being a very persistent clinger. Of the black varieties of currants, the best with us have been Naples, Black Victoria, Collins' Prolific and Saunders. The varieties also cover the season well.

"In blackberries, we have tested thirty or forty varieties and found a great many to be tender. Only six or eight proved hardy enough for the Burlington district. The good varieties include a sufficient depth to insure avoiding this mistake.

"Before planting small fruits, and trees, I cut
off the ends of the roots. When they come from

the nursery the ends generally are more or less bruised. These ends are cut off obliquely on the under side so that the cut surfaces come in close contact with the soil. When this has been done, if the soil is removed some little time after the bushes have been planted, it will be found that soft growths have started out from the roots and obtained a grip on the soil. These growths help to give the bush or tree an early start. I also trim back the tops so that they will correspond with the roots. In the case of currants and rasp-berries, I prefer to plant the rows six feet apart and with blackberries seven or eight feet.

"With a moderate acreage you can start to thin early in February and continue to work until the middle of April. My practice has been to do this work in the spring. In the case of the Cuthbert raspberries, I find that if the old canes are taken out in the fall, it has a tendency to expose the bushes to the gales. This does not apply to the



A Plantation of Raspberries That Gives Much Pleasure and Profit

Raspberries are easily grown, either in patches by themselves, or between the trees in the orchard. There is or reason why very farm home in Ganada should not have a patch near-by for family use. The scene illustrated was photographed in Bruce Co, Ont., at picking time.

the Ancient Britain, Snyder Western Triumph and Agawam. All of these are of medium size, are hardy and first-class for commercial purposes. In raspberries, the old varieties, Marlboro and Cuthbert are the best, the former being a week to 10 days earlier than the latter.

"I prefer to do my planting in the spring. If the soil is thoroughly under-drained and there is no fear of heaving. I see no particular objection to fall planting. As regards the soil, I try to have the same conditions as we desire when planting a field of barley or oats. The ground should be sufficiently dry to have life in it. Work can be saved by plowing a deep furrow in the line you intend to plant. In this furrow, plant the currants, blackberries or raspberries as the case may be.

"Too many of us are in a hurry when planting and plant too shallow. It does not pay. The crown of the root is not deep enough in the soil and the wind blows the bushes or tree until it grows in a slanting position. A good many years ago I made this mistake when planting an orchard of apples. Ever since I have aimed to plant at

Marlboro, which does not grow so high. In the spring pruning, I cut the Cuthbert to about three and one-half feet.

"There are certain varieties of blackberries such as stitutinny, the laterals of which should not be cut off close to the main vine as, by so doing there will be but little fruit. The Ancient Britain and Snyder varieties, however, can be cut off closer, because their fruit buds are nearer thestem.

"I plow to the rows in the fall," said Mr. Peart,
"to keep the water from the roots. In the spring,
I like to use the one-horae spring-tooth cultivator.
It is better to cultivate frequently. The more
often this work is done, the better will be the
fruit. Raspberries I have sometimes cultivated
between pickings and believe that it pays.

"Currants are voracious feeders, and if they are given sufficient fertilizer they do well. They can be grown on almost any variety of soil. My experience has been that a nice, mellow clay loam is the best adapted for all varieties of fruit, except strawberries. Stable manure, well-rotted, makes about as good a fertilizer as can be secured. Wood ashes are good on light soils."

Long Experience in Sugar Making

F. H. Mizener, Brome Co., Que.

For the last 20 years or more I have been engaged in making maple syrup and sugar, at first using a pan and heater. This method was superior to the old system of iron kettles. For the last four years I have used the Grimm Champion evaporator and have found it as far in advance of the pan and heater as that method was of the kettle. The evaporator takes less wood, boils in more sap in a much shorter time, and makes a far superior article. By its use the syrup can be boiled down thick enough to can, thereby saving the second time heating necessary with other methods. This second heating darkens the syrup and this makes it an inferior art By using good bright tin buckets, tin spouts, and using nothing but tin and galvanized utensils in the bush, and by keeping everything perfectly clean and in good condition, there is nothing to prevent one from making a first-class article which will bring the highest market price.

Cleanliness and haste are two of the most important points in sugar making. Keep the syruping-off pans clean. Mine are washed every morning before we commence to boil. Gather the sap often and boil it very quickly.

With regard to spouts, I have used a great many kinds, but consider the Grimm spout far superior to all others. The bore is very small, and with it the tree requires no rossing, which is an advantage as rossing injures the tree to a certain extent. The bark is left in its proper place, the sun cannot strike the bore, thus preventing the sap from souring. I would advise the No. 2 spout with the bucket wire. The wind cannot blow the bucket off with these, as it surely will do with other spouts.

Let the Commission Tell Us

W. H. McNish, Leeds Co., Ont.

I note with a great deal of satisfaction that the Dominion Swine Breeders' Association at their annual meeting endorsed the proposal of Farm and Dairy to send a commission over to Europe to inquire into the methods adopted in those countries that produce large quantities of bacon for the export trade. This was a very important step taken by the association, and, when the deputation appointed by that body waits on the Department of Agriculture, their wants should be recognised.

The expense of sending over a commission of say three or four farmers would be a trifle compared with the results of the report, for, I am sure such a commission would stimulate the production of bacon as nothing else would. The people would be satisfied.

If the Danish methods of hog feeding are more economical than ours, we want to know it. On the other hand, if the credit to their great success is due to co-operative packing houses, we also want to know that. No country has at their disposal the raw material for the production of choice bacon to equal Canada, and why should we not do more at the business? Let the commission tell us.

Is the Hog Business Profitable?

J. S. Kyle, Dundas Co., Ont.

It would be advisable to appoint a commission as suggested by Farm and Dairy to investigate the hog question thoroughly and find out if it is paying the Danish farmers to buy our grain, and where the profit and loss is. The Danes may be no better off than we are but are hoping against hope to come out all right in the deal, and are actually losing at the present time. We know and feel that if they can skand the strain long enough they will win in the end.

If that is their game to run us out, we would

like to know it, as I consider we Ontario farmers can stand that business as long as they. If it is for the want of knowledge of proper feeding or care of his majesty, the hog, we as a class can compare favorably with anything in Europe, if we have the necessary inforration. If there are really dollars in the hog business, we are the boys that would like to know where to get at them, so we will not be ousted from our British market. As we are true descendants of John Bull, what we have we want to hold, if we do not have to pay too much for our catch.

Milk Fever

Dr. H. G. Reed, V.S., Hallon Co., Ont.

Parturient Apoplexy or Milk Fever is a disease peculiar to newly-calved cows. It usually appears from the first to the fourth day after calving.



An Ayrshire Cow that Has Won Honors

"Eva of Menis," bred and owned by Mr. A'ex. Hume of Northumberland Co., Ont., was an outstanding the Toronto, Ohad, or and Sherbrooke Exhibitions. She gave 8,500 lbs. of milk, testing 4.5 per cent. fat.

Sometimes it occurs as late as a week after calving, when the attack is usually of a mild kind, and instances have been known where the cow was affected before calving. It is more likely to affect animals of the dairy breeds although many milking animals of the beef breeds are by no means immune from its action

The best cows are the most likely to contract the disease. A cow which is a poor milker is almost immune; neither is a cow in poor condition likely to suffer, although exceptions will occur in the latter case. The heavy milking cow



Some Thrifty Shropshire Ram Lambs

Sheep are recognized as a strong score in combatting week. Sheep of good type an country, just as efficient at such work as are more indifferensorts, and they are worth more when ready for market. The above lambs were bred and fed at the Exprimental Farm, Ottawa.

especially if she is in good condition is the kind most liable to an attack.

The first symptoms are an excited and nervous condition, a moving about in the stall in an excited manner with a gradual loss of power till the patient lies down and is unable to rise. She will lie with her head thrown sideways along her ribs and will be unable to raise it up. In some cases the patient will be stretched full length on one side unable even to lie up in a natural condition.

Any man who has ever seen a well-marked case of the disease will never have any trouble recognizing another when he sees it. It has been a source of great loss to dairymen in the past, more so than it is likely to be in the future as Veterinary science has recently discovered more successful methods of treatment. But while it is well for the dairyman to know that the disease can now be successfully treated it is better that he should undersiand that it is possible so to manage his cows as to make it almost a certainty that he will not have a case of it to treat.

Cows, especially if in good condition as very cow should be, at calving time should not be fed any rich or stimulating food such as corn, wheat or pea meal for at least two weeks before coming in, they should have succulent food such as clover, hay, silage or roots, but no meal, the bowels should be kept relaxed. Food such as described will usually keep them right, but if constipation should be present give one or two pounds of epsom salts to overcome that condition. Cows fed in this manner for two weeks before and for one week after calving are not at all likely to suffer from milk fever. Many a good cow has been lost because her owner was too anxious to have her make a big showing at the pail as soon as she came in and in order to enable her to do so fed her to excess and the result was milk fever.

Another preventive measure is not to milk the udder out clean for two or three days after calving, milk out a little at a time and do it often. This seems to be nature's method, for under natural conditions the calf does the milking and we all know the manner in which he will go about business. Newly calved cows should be kept dry and warm. Allowing them in a draught which predisposes to a chill is liable to produce an attack of milk fever. They should not be allowed to drink large quantites of cold water which will also predisposes to chill.

The curative treatment consists in simply milking the udder out dry and filling each of the four quarters with pure oxygen gas. This treatment rarely fails to cure. No person should ever attempt to pour any liquid, not even water, into the throat of a cow suffering from this disease because the throat is paralyzed. The cow cannot perform the act of swallowing and the fluid is almost sure to run down the wind-pipe into the lungs killing the patient sometimes right at once, at other times probably not for some days.

The Ensilage Proposition

C. D. Cook, Hochelaga Co., Que.

If your cows don't pay whose fault is it? It is a case where it is right up to you Mr. Dairy-Farmer, it is your problem, and it is your pocket-book that is affected.

You can't run a furnace to advantage without proper fuel, and neither can you run a dairy to advantage without proper feed. Of course you could fill your coal stove with cobble stones, and it would be just as full as if you used coal, but it would be a pretty chilly thing to gather around on winter evenings, and no sane person would really blame the stove because it didn't throw out any heat. On the same principle you can fill the old cow up on straw, mouldy hay and frozen cornstalks, but no sane person ought to blame the poor creature if she didn't give any milk.

Your dairy is to you what the manufacturer's mill is to him. He realizes that in order to run his plant successfully, he must use proper fuel for his boiler to generate steam, and you, in order to run your dairy at a profit, must use proper feed to produce milk, and that brings us to the subject of ensilage.

There are just four ways for you to look at this ensilage proposition, and each way spells profit. It will save your hay, decrease your grain bills, make more milk, and benefit your land.

The average hay crop is about one and one-

lag

goo

It

tha

ed

T

fe

mi

wl

me

an

va

lar

sea

you and goo put is I B of t their boa

last to a a ha tion some prov

well ratio hay. Er with thriv

I wi

I ha

It be

ducti

Pretakin shoul degree They hours them

They hours them absorb killed fed se

7

half tons an acre. The average corn crop, planted for ensilage, 1s from 15 to 20 tons an acre. Three tons of ensilage contains about the same feeding value as one ton of hay, and has more milk producing qualities. It's very easy to figure which is the most profitable, and every dairy farmer has land that would be benefitted by plowing and planting to corn, while the frequent cultivation that the corn crop necessitates, puts the land in the best possible condition for the next season's crop.

To produce milk with ensilage requires but comparatively a small amount of grain, because ensilage itself contains milk producing elements. You can begin feeding it in the fall as soon as your sile is filled, and you will be surprised to see how your cows will come up on their milk, and in the spring you will be just as agreeably surprised by the milk yield, while the extra money jingling in your pockets will have a very pleasant sound.

But it is absolutely impossible to produce good ensilage without a good silo. Don't make a mistake and think you can produce first-grade ensilage in a second-grade silo. A large number of good farmers have failed on that same proposition. It is cheaper for you to profit by their experience than to pay for it yourself. You would not expect very choice hay to come out of a barn with leaky roof and boards off the sides, neither can you expect good ensilage from a make-shift silo, and as you naturally expect a silo to last for a good many years, it certainly won't pay you to put up anything but a good one. Just which kind is best you must determine for yourself.

But the fact remains now, as at the beginning of this article, if your coss don't pay it's not all their fault. The old cow never enjoyed being a boarder, just feed her good ensilage, and see how quick she will become a dividend payer.

A Varied Use for Silage

S. E. Lane, Hastings Co., Ont.

Our grain as well as our hay crops were short last year. I find that ensilage takes their place to a certain extent in feeding ho.ses. We feed a half-bushel per horse each day. This, in addition to a light feed of hay each meal time and some pulped roots and a quart of oats at night, proves very satisfactory. My horses are doing as

Kind Words About Poultry Number

Ed. Farm and Dairy.—The special poultry number of Farm and Dairy is a great credit to its editors. It is the best thing on Poultry in a practical way that I have ever seen, poultry papers not excepted.—J. R. Hutchison, B.S.A., Thunder Bay District, Ont.

well on this ration as they did last year on a ration of three gallons of oats a day and plenty of hay.

Ensilage is also good for pigs. I feed it along with roots and a little meal, and my pigs seem to thrive well on it. When I get whey in the spring I will be able to finish them oft in short order. I have fed silage to milch cows for three years. It beats everything as a winter feed for milk production.

The Brooding of Chicks

J. R. Hope, Northumberland Co., Ont.

Prepare the brooder for the chickens before taking them from the incubator. The brooder should be at a temperature of from 95 to 100 degrees. Never be in a hurry to feed the chicks. They should not be fed at least until they are 48 hours old. Nature has abundantly provided for them in the whole of the yoke which has been absorbed previously to hatching. More chicks are killed by being fed too soon than by not being fed soon enough.

Bread crumbs soaked in milk and squeezed dry are excellent for the first feed. Scatter some sand or fine grit in the feeding apartment of the brooder. Keep a drinking fountain full of water where they can have access to it at all times. As they grow older let them run out of the brooder. Provide lots of exercise for them at all times by scattering cracked grains in chaff and thus making them scratch for it. It is necessary to give them some sort of green food if there is no grass for them to run to.

A Bad Weed

Bladder Campion is a weed that has come to stay a while, with Ontario farmers. It will require most heroic measures to stop it now that it has got such a footbold in many parts of the province. It is also called bell weed, rattle box, white cockle and other colloquial names. It has widened its constituency very largely through being carried in hay and in clover seed. It becomes bad in old meadows and the roots get to be very large with age.

The plant has a crown from which a number of string-like stalks, the size of a lead pencil and larger spring, and when each of these reach the surface, they send up a number of strong flowering stems, the number and strength depending may be that the bladder campion was started in this way.

All clover seed grown in localities where bladder campion exists should be carefully examined for the presence of its seed which resembles catchify seed in appearance, only it is a little larger and darker in color. Quantities of this seed are sold every spring in red clover seed and the unsuspecting farmer buys it and increase his troubles. Furthermore he has no redress through the law as the Seed Control Act does not mention it as yet. It will soon be added to the list of noxious weeds as it ought to be.

The time to fight this weed is when it first appears on your farm. Get to know it by consulting the bulletin on the Farm Weeds of Canada, which you will find in your public library or public school, and on page 39 see its description and opposite to that a cut of the plant itself. Plate 16.—"Weed Fighter."

A Disease Among Colts

"A disease called Joint or Naval III that has been prevalent throughout Ontario, has caused the death of many colts," said Mr. W. F. Kydd, the well-known institute speaker recently to a representative of Farm and Dairy. "At one time," continued Mr. Kydd, "nearly all authorities were



A String of Youngsters that Anybody would be Proud to Own

These registered Clydesdate colts were bred on the western prairies by Mr. Daniel Osborne, East Assinibola Co., Sask. Mt. Osborne breeds a large number of heavy horses and considers them one of the best paying assets of his farm.

upon the age of the plant, and the quality of the soil. The plant is mostly spread and perpetuated by its seed, but any piece of the crown cut off with the plow may become the progenitor of other plants. It has been maintained by some that to cut this plant deep in the soil and below the crown will kill it. My experience leads me to believe, that, wherever a piece of the thick fleshy part of the root, from which the true roots runs into the soil at the lower part is cut, and the crown is attached to the upper part, that it will repair the injury by producing a new crown.

It is well known at any rate that it will grow most rapidly if the stalks are only cut off above the crown. In handling individual plants, a handful or so of salt placed over the root will kill it. Where it occurs in field cultivation and in quantity, a short rotation of crops should be adopted at once. A rotation like clover, corn or roots, or rape, and grain every three years is the most advisable. Where a sharp broad-shared cultivator is used in the cultivation of a bare fallow or after harvest cultivation, it goes a long way to weaken these plants. Where seed falls to the ground, it should be encouraged to grow right away and then the plants killed by cultivation as the stalk of the control of the

This weed is a long-live and its leaves resemble somewhat the ver, grown as a door-yard plant quite frequently and which can take on the proportions of a weed when allowed to escape from the flower garden. It

agreed that it was caused by a germ entering the body through the naval cord opening. At present, some authorities say that the foal is born with this disease. Be that as it may, I would, in every case tie the naval cord with a strong pace of twine and close to the body and then cut off the cord below the tying. Have a ten per cent. solution of carbolic acid, previously prepared, ready for use. Dip the string in this solution to kill all germs that may be on it, and wet the cords and surroundings with this solution several times a day, until the cord falls off and the opening is throughly closed.

ANOTHER TROUBLE

Many foals have a secretion in their bowels that they are unable to pass. This secretion is usually called meconium. This can be detected easily by the foal straining and being unable to get rid of this secretion. This condition requires immediate attention. Generally, an injection is necessary. Inject a tea-cup full of liquid every four or five hours until the excreta has a yellow color. This tells you that the mother's milk is passing through the body. I would suggest that milk be used for injection. It should be taken direct from the cow, as it will then be of proper temperature. The fat in the milk has a soothing influence. Milk will dissolve hard lumps as well as any other liquid and the bowel has power to absorb nourishment from the milk as long as it is retained.

British American Business College

Y.M.C.A. Building, TORONTO Established 1860.

The oldest and one of the most reliable of Canadian business and shorthand schools. Open during

July and August. Enter any time. Write for information.

T. M. WATSON, Principal.

CALVES Raise them without Milk. WHITE & GILLESPIE, Peterboro, Ont.

ALFALFA SEED

Are you going to seed down a field with this valuable Forage Plant? YOUR

SUCCESS atly depends on the seed you select.
"Gold" Brand, we honestly think is best of last season's crop. It is large,

PURE & CLEAN

, raised in Montana. The most northern e in U.S.A. It is therefore best suited our climate conditions. Sow 20 lbs. per

BUY NOW

ent price \$13.00 per bus., F.O.B. Toronto Bags 25c. each.

RED CLOVER, ALSYKE & TIMOTHY "Sun" Brand Red Clover, \$ 7.75 bush. Ocean " Alsike " 11.00 " cean " Alsike " 11.00 " iamond Brand Timothy, 3.25 " These Grade No. 1. Government Standard

PURE CLEAN THE BEST ASK FOR SAMPLES AND JUDGE FOR YOURSELVES

'e have selected these seeds first and st for their purity. You cannot get cleaner seed in Canada.

Seeds For the Farm Send for Catalogue

GEO. KEITH & SONS

124 King St. East

ONTARIO

Good Cows in Demand

A few days ago a buyer from the States gave the high price of \$2,000 to a farmer near Brockville for one cow: This is believed to be the highest price ever paid for a Canadian cow. What made the animal so valuable? Granted that sie was a mouse of beauty and an exquisite type of her breed, the fact remains that her act-ual performance largely helped to effect the sale. She has a record of 121 pounds of butter in 30 days. The records, those figures down in black Granted that she was a model records, those figures down in black and white, assisted in making the

When farmers generally commence to keep records of individual cowswe may heep records of individual cowswe may more such excellent specimens, but a general improvement in the production of the average herd. Records alone can furnish the information necessary to enable intelligent selection of the company of the company of the promising cows, and the rejection of those that are not professhe. Such those that are not professhe such selection, coupled with more liberal feeding, will repay any farmer abundantly. As scores of farmers in Canada can testify, it has often resulted in an additional \$15 and even \$25 income per cow within four years. keep records of individual cows we may \$25 income per cow within four years. This means millions of dollars for the farmers of Ontario and Quebec, even from the present number of cowa. The Dairy Commissioner, Ottawa, will be glad to supply record blanks for weights of milk, and to assist in organizing cow testing associations.—C. F. W.

Likes Alfalfa

Editor, Farm and Dairy.—I had heard so much about the merits of al-falfa hay, I decided last summer to try an experiment with it, and to grow 1½ acres of alfalfa for the first time. The results I have obtained from it have been so satisfactory, that I have decided to increase my acreage next summer.

soon as I started feeding alfalfa hay to my cows, their milk production increased until I was getting as much as 50 lbs. of milk a day more as much as 50 lbs. of milk a day more with a herd of nine cows, than they gave when I fed them grain, corn and mangles. I am now feeding them alfalfa and mangles. The cows are alfalfa and mangles. The cows are looking better than they ever did, and are always anxious for their feed. Alfalfa is a crop that hundreds of farmers could grow to splendid advantage.—T. E. Jory, Peterboro Co.

Farm and Dairy is a real value to the farmer and to the dairyman. I prize it very much.-Wm. Bate, Richmond Co., Que.

Imports of U.S.A. Hog Products

Editor, Farm and Dairy —The Editor of the Weekly Sun of Toronto makes the following statement in his report of the annual meeting of the Swine Breeders' Association held Feb. 3rd in Toronto. "Some of the statements made during the discounter of the statements and during the discounter of the statements and during the statement of the stat Swine Breeders' Association held Feb. 3rd in Torouto. "Some of the statements made during the discussion which occurred in connection with these proposals indicate that at least some of those present were not conversant with the facts of the case, and that others have not fully considered the effect that must be brought about if some of these proposals are carried if some of these proposals are carried. that others have not ruly consulted the effect that must be brought about if some of these proposals are carried into effect. For instance, D. C. Flatt, President of the Swine Breeders' Association, declared that 'half the portionsumed in Canadian cities to-day was of American origin.' The Sun editor says 'it would be interesting to know from what source Mr. Flatt derived his information.'' In the first place I would inform the Sun that such a statement was never made by me, and that other reliable newspaper men were present and they do not quote me as saying any such thing.

Now, for the special information.

quote me as saying any suon taing.

Now, for the special information
of the Weekly Sun, I will state the
facts as they were at the corrention,
that a certain packer had said that
"half the pork consumed in our Canadian cities was of American origin."



Mr. D. C. Flatt, Millgrove, Ont.

Mr. D. C. Flatt, Millgrove, Ont.

The President of the Dominion Swine Breeders' Association, Mr. D. C. Flatt, of Millgrove, is one of the most successful breeders of hogs in Canada, he having the present of the present of the control of the contr

It looks to me that the Sun does not feel friendly towards the present move of the swine producers of Can-ada in asking that a 4c duty be placed on American hog products coming into Canada.

to Canada.

The Sun in presenting its case, says that the total exports of bacon and hams from the U.S. to all British American ports, including Newfoundland, for the 11 months ending with November, amounted to a little over \$600,000. I can see no use of the Sun trying to mislead the people. Why does it not give the last official report of American hog products coming into Canada? Possibly it has some special reason for not doing so. I will give the figures of the last

official report and let the men who omcial report and let the men who are producing the hogs of our country judge for themselves as to whether the amount of American hog products coming into Canada is not having an influence on the fluctuations in the market values of our hog products. I will quote from Mar. 31, 1907 to Mar. 31, 1908.

Total Hog Products 29,083,640 \$2,834,311 It signifies the interesting to know that duplit be interesting to know that duplit be interesting to know that duplit be interesting to the supports to the U.S. amounted to only \$5,211. The above amounted to only \$5,211. The above the effect upon the bought of the U.S. we must pay 5c. a lb. duty, while they may dump our markets full at 2c. a lb. duty.—D. C. Flatt. Wentworth Co., Cat. 29,983,640 \$2,834,311

Reesessessessessessesses The Feeders' Corner

The Feeders' Corner is for the use of our subscribers. Any interested are in-vited to ask questions, or send items of interest. All questions will receive prompt attention. x,0000000000000000000000

Scours in Calves

Would you please give me advice as to how to treat calf with scours. I have a pure-bred male calf, month old, scours pre-bred male calf, month old, scours to the second pre-bred many control of the second pre-b

welland Port, Ont.

Thoroughly clean pen and sprinkle lime about floor. Whitewash walls, if possible. Give a dose of one-half oz. castor oil. Thoroughly clean feed pail each time it is used. Reduce amount of milk being fed to three quarts aday. Mix a little lime water with milk. of milk being fed to three quartas day. Mix a little lime water with milk, Hen gradually change to limber who was to gradually change to skim milk again. Replace a small amount of whole milk with the skim milk and about half a cupful per diem of limber water. Add to the skim milk and about half a cupful per diem of limber water sm. I quantity of timothy hay .- J

for

(the mil

par

that

1¼

thre

Sele

turi

A Ho

40 fe

As

of w

you in p

Weed Seeds for Sheep

Weed Seeds for Sneep
If sheep be fed ragweed seed is there
any danger of it germinating after it is
hauled out. Also is a little buckwheat
seeps sheep?—R. Marshville, Ont.
R. Ragweet of the sheep is not
likely to germined to sheep is not
likely to germined to sheep is not
through the sheep. The danger lies
in such sead as gotted. in such seed as gets scattered about in such seed as gets scattering and escapes being eaten before getting into the manure. The better plan would be to grind them finely and mis with bran and oats.

A small amount of buckwheat is a

satisfactory grain for sheep. The ragweed seed ground might be fed with the buckwheat if the latter were cracked before feeding.—J. H. Grisdale, Agriculturist, C. E. F. Ottawa.

Our new Price List of Dairy Supplies is out. If you have not received a copy yet you had better write for one. There are

Have You Received One?

some interesting prices quoted. We supply everything necessary for the Creamery and Cheese Factory. Don't think of ordering until you have seen our prices.

R. M. BALLANTYNE, Limited

- Dairy Supplies STRATFORD

ONT.

the most effective and cheapest liquid fer-tilizer for ALFALFA. CLOVER and all le-

gumes, Enriches the soil in NITROGEN, benefits

ccess guaranteed Send 20 ets. for small trial bottle and test it in your home. Price \$2 per acre. Write for particulars to

Dr. Reiche Nitragin Co. MILWAUKEE WIS

It is desirable to mention the name of this publication when writing to advertisers

Growing Feed For Cattle

Growing Feed For Cattle
Will you kindly let me know what you
consider the best feed which we could
consider the best feed which we could
consider the best feed which we could
constitute a large part of their food, and
we would be glad of any information
which you can give us which would enwhich you can give us which would enmeed to plant of these ment we would
constitute a large part of their food, and
we would be glad of any information
which you can give us which would enmeed to plant of these
constitute to the control of the conprovide for fattening 20 head of cattle,
O. N. Co. Montreal, Que.

To winter 20 head of cattle, fattening them and keeping in mind at the
same time the production of manure
in considerable quantities, would require approximately the following
amount of materials:—Four tons

in considerable quantities, would require approximately the following amount of meterials:—Four tons bran, two tons oil cake meal, two tons gluten meal, 20 tons straw, eight to 10 tons hay, and about 100 tons of ensilage or roots. If less roots or ensilage are provided then the quantity of hay would have to be increased, likewise the quantity of meal above mentioned.

If corn were grown, then about three acres would be required. If roots, then about six acres would be necessary. Equal areas of turnips

Satisfied with Results

Brockville, Ont Brockville, Ont.

Ed. Farm and Dairy.—We have obtained such good results by our advertising in "FARM and DAIRY" that we have almost entirely confined our advertising to your paper. By vertising to your paper. By your medium, we find the peo-ple that we are desirous of in-teresting, and we have had such results as to warrant our con tinuing our ad. in "FARM and

(Signed) D. Derbyshire & Co.

and mangels would be the most likely to prove satisfactory when it came to feeding.

If and is not in shape to grow hay, then I would suggest as a substitute for the hay the growing of about eight acres of a mixture of peas and oats sown at the rate of three and a half bushels an acre, equal parts of peas and oats obey at the rate of the rate of the control of the

milk stage) and cured as hay.

If grain is grown on the farm, then
part of the bran might be replaced
by oats and part of the gluten meal
by barley. The oil cake meal should
be retained.—J. H. Grisdale.

Variety of Corn to Grow

What is the best kind of corn to grow for the silo?—Subscriber, Teeswater, Ont. The Selected Learning, White Cap Yellow Dent, Longfellow and Early Mastodon, are the varieties of that are likely to suit you best.

that are likely to suit you best. I would suggest that you sow about 1½ of the area to each of the varieties named, or if you wish to sow only three varieties, then I would suggest one-quarter area Longfellow, one-half Selected Leaming or white Cap Yellow Dent, and one-quarter to Early Mastodon.—J. H. Grisdale, Agriculturist, C. E. F., Ottawa.

Amount of Cement for Wall

How much cement and how much gravel would be required for a wall of a building 40 feet by 60 feet by 8 feet?—C. A., Huron Co., Ont.

As you do not state the class of As you do not state the class of building this is for, or the thickness of wall, we are at a loss how to give you figures, so are figuring on a basis of a 12 inch wall. If less is required, you will be able to deduct from this in proportion. As we understand it, this would be for a barn, probably

FARM MANAGEMENT of the would do. This would mean and the presence of the abscesses can there is 1600 cubic feet of wall which only be suspected during life. there is 1800 cubic feet of wall which will take 60 yards of gravel, and if built of a proportion of 1 to 8, which is all right for barn, work if coarse sand is used, it will take 51 bbls. of cement.—London Concrete Machinery Co., Limited, W. Pocock, Mgr.

Cement Floors in Horse Stalls Would you advise putting a cement floor n horse stalls or planking them? Is it niurious to horses' feet to stand on ement?—E. A. B., Wildmay, Ont.

Cement makes the best kind of a floor for a horse stall. It is advisable, however, to lay planks on top of the cement. While it cannot be said that the cement is injurious to the horses' feet, it is difficult to keep horses sharp shod in winter on such a floor, besides it being a cold floor to lie on. The planks on top of the cement have proved very popular with all those who have installed them.

Our Veterinary Adviser

LUMP JAW.—Two year old steer has a ump just under his jaw. It is not at-ached to the bone.—W. S. C., Orono, Ont.

This is lump jaw. Get your veter-inarian to dissect it out, and he will give you a dressing to use until the wound is healed. About a week after wound is healed. About a week after the operation give the iodide of po-tassium treatment. This consists in giving the drug three times daily. Commence with one dram doses and increase the dose by one-half dram daily until he refuses food and water, tears run from eyes and saliva from mouth, and the skin becomes scruffy, when any of these symptoms become well marked cease giving the drug.

FATALITY IN HORSE.-Horse took dis temper, ran freely from nostrils: abscess formed and broke in neck. In about five days the discharge from nostrils became very foetid. He died in three days.—No

Your horse had an attack of what is known as irregular strangles. In these cases abscesses form in various parts; doubtless in your case there parts; doubtless in your case there was an abscess or abscesses in some of the internal organs and this caused death. It requires a careful post mor

Warranted to Give Satisfaction. Gembault's **Caustic Balsam**



Has Imitators But No Competitors.

as limitaturs but no competitors.
Safe, Speedy and Positive Cure for Cure, Splint. Sweeny, Cappes Hock, Strained Tendons, Founder, Wind Furs, and I sameness from Spavin, Ninghone and Lancenses from Spavin, Yinghone all skin diseases of Cartaites, Diphtheria. Revenues all Bunches from Horses or Cattle.

As a Human Remedy for Rheumatism, prains, Sore Throat, etc., it is invaluable. Every bottle of Gaustie Balsam sold is Every bottle of Gaustie Balsam sold is protified to the state of the

The Lawrence-Williams Co., Toronto, Ont.

DON'T FEED YOUR CALVES MILK Blatchford's Calf Meal ,

IS BETTER, CHEAPER, MORE HEALTHFUL It is conceded to be the only real milk substitute in the world. Makes stronger and healthier animals and sweeter, fruer, whiter veal than any other known method of feeding. Prevents scouring. Costs half as much as milk and con-

tains no mill feed or other by-products. While 100M for our valuable free book, "He to Raise Calves Cheaply and Successful Without Milk.

It contains the concentrated experience of the gener-tions which this firm has spent in learning to produce a absolutely perfect calf food. The 50,000 farmers who e using Blatchford's Calf Meal today know it value. Your name on a postal will bring this book.

Address : STEEL, BRIGGS SEED CO., Ltd., - - TORONTO, ONT.

LAND for SETTLEMENT

Lands are offered for settlement in some cases FREE, in others at 50 CENTS per acre, in various districts in NORTHERN ONTARIO.

Write for information as to terms, homestead regulations, special railway rates, etc.

THOS. SOUTHWORTH,
Director of Colonization, Toronto HON. JAMES S. DUFF,

This Feed Costs Nothing

if you count the results it gives. Livingston's Oil Cake is just what cows need.

It tastes good—is easily digested—keeps stock in prime condition all the year round—actually increases the percentage of Butter Fat by 16% over Pasture Grass. The richer has cream, the more money you the cream, the more money you It tastes good—is the cream, the more money you make. Livingston's is the feed that pays for itself.



Livingston's Dairy Oil Cake

A \$5,000 DAN PATCH STALLION FREE

This New Picture of DAN PATCH 1:55 in Six Brilliant Colors MAILED FREE TO



DAN PATCH 1:58

This new picture of Dan Patch 1355, is the Fineset I have ever gotten out for framing. It is printed in an brilliant colors and is free of advertising. It gives his age and a list of all the ast if you stood on the standard from a "Speed Photograph" it shows Dan as lifetile as if you stood on the standard from the standard printing seed exhibitions. You cought to have a fine picture of the King of all Hairons and thrilling seed exhibitions. You cought to have a fine picture of the King of all Hairons and thrilling seed exhibitions. You cought to have a fine picture of the King of all Hairons and thrilling seed exhibitions. The standard is the standard from the standard

A \$5,000 DAN PATCH STALLION FREE

A 55, OOO UAN PAIGN SIALLIUM PREE

An Absolute Y ree Bits / counting consess Without Money or Purchase Consideration and 0 Jesn To Any Farmer, Guesses Without Money or Purchase Consideration And 0 Jesn To Any Farmer, Guesses Without Money or Purchase Consideration And 0 Jesn To Any Farmer, Guesses With Consess of the Co

** Mail this Free Coupon To-Day to E. B. &AVAGE. TOTONIO, Ganada.

**ETYON MUST FILL IN THE THERE BLANK LINES BY THIS FIRE COLOR CAND.

**ETYON MUST FILL IN THE THERE BLANK LINES BY THIS FIRE COUPONED.

**E. B. SAVER, International Stock Food Co., Toronto, Willyou please mail me Postage Paid and Color of February of The Parks 1825, the World's Champine Harmann Color of the Parks 1825, the World's Champine Harmann Color of

Post Office.....Province....

************ POULTRY YARD

. Poultry on the Farm

J. Durst, Huron Co., O.

Of late years farmers and their families have taken much more interest in poultry raising than formerly. The result has been that this branch of the farm is now an important source of wealth to the country. There are yet, however, a very great many who believe that poultry cannot be made to pay and that fowls are more bother. The second of the pay and that fowls are more bother than they are worth. Those who hontant hey are worth. Those who home Of late years farmers and their fam-

to pay and that fowls are more bother than they are worth. Those who honestly hold that opinion had better leave poultry alone, for it is certain that unless they like the birds, and will take pleasure and interest in caring for them and providing for their wants, they cannot make poultry pay. The same principle applies to all other classes of live stock. If a man does not like the animals he is handling sufficiently well to watch them closely and supply them with all they need and perhaps a little more, he had better give them up and devote his attention to something that has no life injit. In dealing with living and injit. In dealing with living and injit. In dealing with living and injit. attention to something that has no life-in it. In dealing with living and in-telligent creatures, it is the little atten-tions that count quite as much as the observance of general rules. A great many farmers fall with poultry in beine careless in little thines, for in-stance proper housing. Give your soulire plents of room if possible, the possible of the possible of the possible of the possible of the they searced have for a space round. Providing exercise is an-other common failing. To many simother common failing. Too many sim-

ply throw down the feed for their hens. It is greedily gobbled up by the fowl, who then go and stand in a corner the rest of the day. Keep plenty of cut straw on the floor and have the hens seratch for all they eat. This will keep them healthy. Then feed a variety of feed. There are no laws to be laid down in regard to feeding, as different poultry men adopt different ways of feeding. Above all keep plenty of grit, oyster-shell, ground bone, charcoal and fresh water, also plenty of fresh air, and ground bone, charcoal and fresh water, also plenty of fresh air, and be very careful to have them free from lice. These are just a few of the many things to be looked after in the poultry line

KREP AWAY FROM MONGRELS

The poultry man aims to produce always the best type of the breed to which he is devoting his attention; at least he ought to. But, how often de we see a flock on the farm, where characteristics of every known breed show forth. Such a mixture the writer always detests. If you wish to have success take a breed of foul, good egg producers, and don't cross them. Keep them pure.

It is the hen that lays that is the one that pays, but there are two classes. The first being that which is useful only for the production of eggs, the birds being a little too small for the birds being a little too small for market purposes. The second class comprises the breeds which are suffi-cient in size to make them important as producers of wholesome and at-tractive meat. It must not be under-stood, however, that the larger breeds are deficient as egg producers, this is not the case. In fact in the exper-

ience of the writer, some strains of ience of the writer, some strains of these breeds were most profitable egg producers. They were more so because they were good winter layers, which birds of the exclusively egg-producing class seldom are, unless they receive more care and attention during the winter months than they are likely to winter months than they are likely to get upon a farm.

get upon a farm.

From my considerable experience with the rearing of poultry, both by the natural methods, and also by means of the incubator, I have found the natural method, or hatching by means of the clucking hen to be the most profitable for the farmer. My reasons are various: 1st. The farmer seldom takes time to tend an incubator properly. 2nd. Each succeeding ceneration hatched by the incubator is weaker than its predecessor. 3rd. If one happens to spoil a hatch in the fore happens to spoil a hatch in the fine happens to spoil a hatch in the fine happens to spoil a hatch in the laws a most desirable table fowl. In fact, they are acknowledged by many authorise seaker than its predecessor. 3rd. They are ranked among the best of They are ranked among the best of incubator his less is greater than with

Hatch Chickens by Steam Stahl "Wood on Hon" an "Excelsior incubators assure big hatches

GEO. H. STAHL, Bex 32E QUINCY, ILL.



Or fol 20 fee

ro

an ho tho

une

per and

ure aga pla 1 u row are

stra

age, that orch

Ho

A.

A

ous

Pari secti

care.

barre neces

ture

poun

A lit

20 po barre

is bes

and le give

To

To



A Good Specimen of a Favorite English Breed

The illustration taken from life is a typical Silver Gray Dorking male, owned by Mr. Walter McGlennon, Northumberland Co., Ont. He has won many 1st, and special prizes at leading Ontario ponitry shows.

the hen. Good hatches are had by ters admirably, and if given the proboth methods. However, if one wants per care and attention which any to rear good strong specimens for fowl should have, they will fill the tegs basket to the entire satisfaction of their owner.

From the standpoint of the farmer the Darking should be specially con-

A General Purpose Fowl

Wallace McGlennon, Northumberland Co., Ont.

In this advanced age we are constantly looking for something new, and in many cases an improvement on the old. While in the chicken world we are making new varieties and breeds every season or two, the writer does not think that the attention of the people should be drawn away from some of the varieties of poultry which have stood from the ages down. I refer particularly to the Silver Gray Dorking. We have the White, Colored and Silver Gray varieties of this breed which the American Standard of Perfection recognizes, but perhaps the variety which is the most popular and which is the most extensively bred is the Silver Gray. The Dorking is one of the oldest if not the oldest breed in existence to-day, being bred in the early days of British history. It is of English parentage, but it has been bred and greatly improved in this country for many years back. does not think that the attention of

The Dorking is a very low set fowl, The Dorking is a very low set fowl, with a long, full breast. Its legs are short and stout, which tends to give this long, low set appearance. The flesh is of very delicate fibre, and is very juicy and sweet. They are much finer boned than other breeds of fowl

the Dorking should be especially con-sidered. Combine their qualities in a bird and see what we have: Good size, good laying qualities, fine table qualities, splendid setters and good mothers, very docile to handle, and last, but not least, a most beautiful breed.

breed.

For the man who is "only keeping a few hens," where is there anything that will fall the bill better than this. This is the fowl that should have the attention of every fancier, small breeder and farmer, for experience has taught the writer that they are indeed worthy of attention from all

sides.

It is not my wish to belittle other breeds. Anything in the shape of a hen has a place with me, but while other breeders are praising up the good qualities of their favorites, Dorking fanciers should blow their horns to. Let us hear from some of the other breeders

Never feed decayed meat, mouldy grain, or give fowls stale water to

Start with the breed that you think you want, and then stick to it. The stock-raiser who shifts every few years to a new breed never gets anywhere his operations, except nearer to the poor-house, perhaps.

FENCE TALK No. 4

Before you buy any fence—even Page Fence—make it prove up its value. Then you'll know what you're getting. Test it two ways, thus;

Have the dealer cut for you, before your eyes, a piece of horizontal wire from the roll of Page fence and any other fence. Now for the fire-test. Heat both pieces cherry-red; cool them in cold water, and start to bend them.

The Page wire will have taken such a temper that after breaking off a piece the fresh end will cut glass—because it is "high-earbon" steel that takes a temper. That proves its toughness, its hardness, its power to stretch farther, stay tighter, and sag never.

The other wire will bend like copper wire—because it is only hard drawn steel, that won't take a temper. That shows it up as soft, weak-breaks at 1,800 lbs. compared with Page wire that stands 2,400 lbs. tensile strain. Shows it up, too as sure to sag, hard to make tight, certain to give out soone by far.

And then the eye-test-look at the locks of the over fence. Have the man give you one to cut apart. Study it where the wires cross; look for marred surface where the cross comes— that means weakness. Then look at the cut-apart Page lock positive, cannot slip a little bit, shows no sign of squeezing or

Look, too, that the running wires are wavy enough to allow amply for expansion and contraction—as the Page does.

Last, the third test-the cost-test. A Page Fence stands up and stands tight on two posts to any other fence's three. Figure the fence-posts saved, digging labor saved, and the time saved in putting up the fence.

Apply every test—and you will choose Page Fence every time. Send now for valuable free book that teaches how to make sure of fence value before you buy. Write for it to the Page Wire Fence Co., Ltd., Walkerville, Toronto, Montreal, St. John, Vancouver, Victoria, and find out why.

"PAGE FENCES WEAR

It is desirable to mention the name of this publication when writing to advertiser-

Receseseseseseseses HORTICULTURE **B***********************

Many Fruits on a Small Area

The illustration on the front cover of this issue of Farm and Dairy shows of this issue of Farm and Daily shows a corner of the orchard and garden of Mr. W. J. Justice, Simose Co., Ont. It is described by the cwner as follows: "The plum trees shown are 20 feet apart between the rows by 10 feat in the row. The orcomed in these feet in the row. The ground in these rows is devoted entirely to the plums. It is kept clear from weeds and wen manured. The space between the rows is commission in the space between the rows. manured. The space between the rows is occupied in the centre by a row of either red currants or gooseberries, and on either side of this I grow strawberries until the trees, by top and root, prevent it. It is surprising how long they can be grown profitably if the soil is properly treated with well-rotted stable manure and thoroughly worked. thoroughly worked.

thoroughly worked.

After a crop of strawberries has been harvested, the plants are plowed under at once if the plum crop will under at once if the plum crop will pormit, and manured and plowed pormit, and manured in the plant of the plant with a crop of some early vegetables.
I use freely a 12-tooth cultivator harrow in working the soil while the crops row in working the son while the crops are growing, using care when the strawberries are near fruiting. I use about 20 team loads of good manure per acre each season. I find that plum trees, when they reach a certain age, cease to be profitable and should be grubbed. I had to treat several that way last fall. Other fruits also are grown in other parts of this orchard."

How to Make Bordeaux Mixture

A. C. Blair, Peterboro Co., Ont. A standard remedy for the treatment of apple scab and other fung-ous diseases of the orchard is the Bor-deaux mixture. When combined with Paris green, it is also an effective on-secticide for the treatment of each secticide for the treatment of cod-ling moth and other pests. It is not difficult to make but requires some

care.

To prepare it properly, at least two barrels besides the spray pump are necessary, and four barrels are better. The usual formula ior Bordeaux mixture is four pounds of bluestone, four pounds of lime to 40 gallons of water. pounds of lime to 40 gallons of water. A little more lime may be beneficial and will do no harm.

To make a stock solution, dissolve 20 pounds of bluestone in one of the barrels with 20 gallons of water. This is best done by placing the bluestone is been done by placing the objection of the state of the water in the barrel and leaving it over night. This will give one pound of bluestone to each lig; for bud moths and cigar case

gallon of water. In another barrel slake 20 pounds of lime and when slaked add sufficient water to make 20 gallons. This will also give a stock solution of one pound of lime to each gallon of water.

When about

gation or water.

When about to spray the trees, place 16 gallons of water in the third barrel and four gallons of the bluestone stock solution, making in all 20 gallons, or half a barrel. In the fourth barrel place 16 gallons of water

M. G. Bruner, Essex Co., Ont. At a recent meeting of the South Essex (Ont.) Fruit Growers' Associa-tion the following resolution was passed: "Resolved, that in the opin-



The Power Sprayer is Being Ueed More Extensively as the Season's go By In localities where the acreage of orchards is not large, it is most convenient and cheaper of evis or more fare the acreage of orchards is not large, it is most convenient and cheaper ment of Agriculture as bounts to the men who co-operate in this manner, and who make application for sames a bount to the men who co-operate in this manner, and who

make application for same.

and four gallons of the milk of lime, and four gallons of the milk of lime, and four gallons in all, or half a barrel. This may then be poured into the spray pump and mixed thoroughly, when it will be ready for application. If the third and fourth barrel, the third and fourth barrel, the four gallons of bluestone may be placed in the pump immediately the pump nearly filled with water the pump nearly filled with water

To add the insecticidal property to To add the insecticidal property to the mixture, mix four ounces of good Paris green to a paste with a little water, dilute with water enough to enable it to pour and add same to the mixture in the pump. If the Paris green is not good, another ounce or two may be used.

These operations may be repeated until all the stock solution is used, when more will have to be made if required. When spraying keep the mixture thoroughly agitated, as Paris green will not dissolve in water but remains in suspension. It is best the park for times. First when the park in the

borer; third, immediately after the blossoms fall, for codling moth; also on the arsenate of lead paste, for apple scab and leaf eating insects.

[Essex Fruit Meeting M. G. Bruner, Essex Co. Ont.] resolved that the tuningation stations are no longer of any benefit, but rather an injury to trees being im-ported from the neighbouring states by the rough or careless handling the trees receive while passing through some of these stations; therefore, we ask the government to remove same, as there is a law in each and every state which compels every nurseryman to fumigate their trees before they leave the nursery" These same we ask the government to remove the seryman to fumigate their trees before they leave the nursery? These came resolutions have been also passed by the Leamington Fruit Grover? Asso-ciation at their last regular meeting. I have had trees killed by the land-ling they received at the Windsor Sta-tion in the spring of 1907. The trees had been undone to be fumigated and not properly re-packed. When they reached me the roots were as dry as straw.

The Essex county council appropriates \$25 each year to our association for the purpose of getting new fruits of the members to test as to the adaptability of our county to the growing of such new fruit trees or plants. As president of the association for the trees and plants at a meeting in the trees and plants at a meeting in January, and found that on an average three-quarters of the trees died. The cause was in almost every case laid to the funigation; hence the above resolution. The Essex county council appropri-

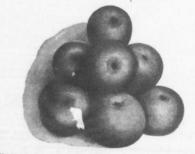
Take a greater interest in the farm garden and you will be pleased with the results.

There should be a small piece of ground set aside near the house for the growing of vegetables for home



with Campbell's Nico Soap and Campbell's Prepared Bordeaux Mixture

If you want to grow fruit like this



Write to-day for our Manual of Instructions and Testimonials from

BLACKIE BROS. NOVA SCOTIA



SPRAMOTOR OFFICE

LONDON

It is desirable to mention the name of this publication when writing to advertisers It is desirable

to mention the name of this publication when writing to advertise

Absolutely Free

A \$1000 ACCIDENT INSURANCE POLICY

FOR ONE YEAR-

Given away for securing only TWO NEW Yearly Subscriptions to FARM AND DAIRY. This policy is from the

IMPERIAL GUARANTEE AND ACCIDENT INSURANCE COMPANY OF CANADA

FARM AND DAIRY has arranged with the above Company, through THE PETERBORO EXAMINER, whereby it is able to offer, absolutely free, up-to-date Accident Policies upon the following conditions:

Any one sending us one new yearly subscription to Farm and Dairy at \$1 will receive a \$1000 Accident Policy, with all the benefits provided therein.

Take advantage of this offer immediately. It is the greatest remium ofter we have ever made. Remember, there is no fe, whatever attached to this policy. It is absolutely free, if you send us \$1.00 and the name of one new subscriber to FARM AND DAIRY.

The Imperial Guarantee and Accident Insurance Company is one of the strongest in Canada.

SAMPLE COPIES ON APPLICATION TO

Circulation Manager

arm and Dairy

Peterboro.

The Brown-Tail Moth

In the issue of Farm and Dairy for In the issue of raini and Daily ion February 11th, reference was made to the possibility of the brown-tail moth the possibility of the brown-tail moth gaining an entrance to Canada through the importation of nursery stock from Europe. Already this pest is to be found in Nova Scotia. To aid in controlling it, and in preventing its spread to other provinces, from that and other sources the following. ing its spread to other provinces, from that and other sources, the following extract from the 1906 report of Dr. Jas. Fletcher, late Dominion Ento-mologist, is reprinted:

motogrist, is reprinted:
"The brown-tail moth, which has
been the cause of enormous loss in
Europe and the United States, is undoubtedly established in one locality in Nova Scotia, and probably in several others. It is important to find out the range of infestation, and everybody is urged to send in any suspicious nests of insects or clusters of leaves webbed together, particu-larly if they contain caterpillars, whenever they are noticed on the

trees.
"The collection of winter nests is
the best and easiest means of controlling this insect. The collection of
these nests must be done carefully,
with as little handling as possible,
and all should be burnt at once when
cut from the trees. This work must

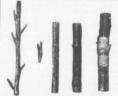
cut from the trees. This work must be done before the buds burst. "Any trees bearing nests of the brown-tail moth, after the buds have opened, must be sprayed with some oisonous mixture for the destruction

of the caterpillars.

The establishment of the browntail moth in Canada is a serious mat-ter, affecting everybody in the dis-trict where the insects occur. What is now only a matter of considerable interest, may, if neglected, become a public calamity. Specimens for examination may be sent to the Entoamination may be sent to the Ento-mologist, Central Experimental Farm,

Propagating Trees and Plants H. Holz, Central Experimental Farm, Ottawa,

In order to get the same variety again, we have to propagate. This may be done by cuttings, budding or grafting. Grapes, curants and gooseberries are generally propagated by grating. Grapes, curants and goose-berries are generally propagated by cuttings. The principal thing in mak-ing cuttings, is a sharp knife to make a clean cut. The wound will callous



Different Steps in Operation of Budding

Different Steps in Operation of Bedding cover quicker and start to root quicker than if done with a dull knife.

Budding is done on a large scale by most of the nurserymen, especially in stone fruits such as plums, peaches and cherries, and also in pears and apples. For budding or grafting select healthy, strong stock. For cherries, seed of the bird cherry gathered as soon as ripe and sowing in early fall, will make in two years' time some excellent stock for budding and graftexcellent stock for budding and graft-ing. In plums, our common American rig: in plums, our common American varieties will make some fine stock if treated in the same way as the bird cherry. In apples, seed of hardy crabs is used the most in this part of the country. If sown in fall and left growing for one year in a seed bed and then terroring for the country. contagy. In sown in that and err growing for one year in a seed bed and then transplanted in nursery rows, these will, after growing one year in these will, after growing one year in the work of the seed of the

What is called the "scion" is gener What is called the "scion" is generally taken from one year's growth of a fruit tree, or any other tree, so long as it is used for grafting; for instance, if I would get scions now, I would get the growth from 1908.

takes a new In top (See

makin beeswa by we not h is: 21/4 10 oz.

better

T. Car Duri

threate cherry,

the att le abou

common Borer, Borer confines

trees numero

When the beet the hole

tions ar



How Root-Grafting is Do

The best time to get them, if possible, The next time to get them, it possible, is before the real cold weather sets in. They can then be kept in a root house or cellar buried in sand, to keep them from drying out. Always get scions from healthiest and most productive trees. One of the accompanying illustrees. One of the accompanying illus trees. One of the accompanying illustrations shows the various steps in the operations of budding. All the tools you need for this purpose is only a budding knife.

There are different ways of grafting, such as root grafting, crown grafting, and top grafting. The tools necessary

THE MOST IMPORTANT FARM MACHINE

THE MANURE SPREADER

Are you Saving Money, or are you Losing it by being without One?

You believe that money spent for a mowing machine or a binder is well invested. Still you use these machines only a few days in the year. You use the hay rake, because it saves you time and

labor. These are valuable machines. They are now counted indispensable by most farmers, even though they stand unused over eleven months in the year.

But a manure spreader is a still more valuable machine. But a manure spreader is a still more valuable machine is to keep up the fertility of the soil. It is the machine is to keep up the fertility of the soil. It is the machine is to keep up the fertility of the soil. It is the real usefulness of all your other far the one on which the real usefulness of all your other far the soil of the so

on your farm.

You will have choice of two different spreaders in the L. H. C. line—the Cloverleaf, endless apron spreader, and the Corn King, return apron spereder. Each of these spreaders handles the manure in all conditions perfectly and will give you long satisfactory service.

These spreaders are not ordinary. Their frames are made to the conditions of the conditio

Any one of these machines will, if given proper care, last a lifetime.

The labor of spreading manure is greatly lessened by using one of these I. H. C. spreaders. Not only is the labor lessened, but it is changed into agreeable work.

But the strongest reason for using an I. H. C. spreader is the increased value you get out of the manure. The best authorities agree that manure spread by an I. H. C. spreader has at least double the value of manure spread by the spreader has at least double the value of manure spread by the spreader has at least double the value of manure spreader has at least double the value

The I. H. C. spreaders pulverize and make the manure fine, and spread it evenly over the ground just as thick or as thin as may be required. The manure is placed upon the ground in a condition that is at once available for beliant life. All is washed by the first shower into the soil—none is wasted.

soil—none is wasted.

The good effects upon the crop are immediate and the permanent benefit to the land is greater than when the manure is spread by hand. There is no question but a manure is proad by an I. H. C. manure spreader will give an immediate the manure of the manure is not an I. H. C. manure spreader the machine you should have?

Are you not losing money instead of saving money by

Call on the International local agent and investigate one of these machines. He will supply you with catalogs and particulars, or if you prefer write nearest branch house.

CANADIAN BRANCHES: Brandon, Calgary, Edmonton, Hamilton, London, Montreal, Ottawa, Regina, Saskatoon, St. John, Winnipeg.



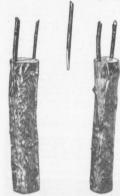
INTERNATIONAL HARVESTER COMPANY OF AMERICA CHICAGO, U.S.A.

for this operation are a budding knife, grafting knife, saw, shears, a large knife for splitting and a mallet. Root knife for splitting and a mallet. Root knife for splitting is always done during the knife for some first splitting is always done during the first splitting is always for splitting the first splitting the first splitting the first splitting to the first splitting to the first splitting to the first splitting the first split

Farm that, by waxing them over, we get a larger percentage to grow. In the crown graft, the stock is left in the ground undisturbed and the work is done the latter end of April and the early part of May. To have a success in cherries, this should be done as soon as the snow is gone in the spring.

done as soon as the snow is gone in the spring.

The operation of top grafting is mearly the same as crown grafting only it is done on branches of trees and sometimes on trunks, if they are not too large, at the height desired. In top grafting it is better not to cut off too many branches in one year as well weaken the tree too much and the tree is and to die. It generally the tree is and to die. It generally it will weaken the tree too much and the tree is apt to die. It generally



An Example of Cleft Grafting

takes from three to four years to get a new top on a fairly good sized tree. In top grafting the cleft graft is used. illustration).

(See the illustration).

The following recipe is used for making grafting wax: Resin, 4 parts; all by becawax, 2 parts; tallow will be weight. A little mora tallow will not hurt. Another wax resummended is: 2½ lbs. of rosin; ½ lb. of becawax, 10 oz. of boiled paint oil. This is the better wax for outdoors.

A Dangerous Pest

L. Caesar, Ontario Agricultural Col-lege, Guelph.

lege, Guelph.

During this coming season fruitgrowers of the Niagara district from
Hamilton to Niagara-on-the-Lake are
threatened with serious injury to their
threatened with serious injury to their
theattacks of a very small black beetle about one twelfth of an inch long,
commonly known as the Shet-hole
Borer, Fruit Bark Beetle, or Pin
Borer. Under normal conditions it
confines its attacks to dead or dying
trees. When it become seasively
numerous, however, it has the dangersous habit of attacking perfectly healthy trees.

When healthy trees are attacked by When healthy trees are attacked by the beetles, gum masses aoon form over the holes bored by the insects through the bark. Very similar gum exuda-tions are caused by fungous diseases, such as Brown Rot. It say, how-wer, to tell whether the gum has been caused by the beetles or not. When-ever such is the case a round shot-like hole will be seen in the bark when the gum has been removed.

the gum had been removed.

The object of the beetle in attacking healthy. The object of the beetle in attacking healthy the service of the beetle in the service of the because is only in dead or dying trees that they can lay their eggs and produce offspring. This fact gives the clue to away and practicable removed, especially when we know that they pass the winter chiefly in the grub stage, twelf when the bark of the dead or dying twelf when the service of the servic

THE REMEDY

Cut down and burn before April all dead and dying fruit trees of every kind and prus off dead branches. It is all important to off dead branches. It is all important before the substantial trees and the substantial trees are the beetles would still on them. If this suggests a dead upon by the fruit-trowers as the substantial danger to orchards from this tall danger to orchards from the will be removed. Each fruit-trower will be removed. all danger to orchards from this peet will be removed. Each fruit-grown should in his own interests not only look after his own orchard but do his best to get his neighbor to do like-wise, because the insects will fly or a considerable distance from one or-chard to another.

chard to another.

Trees with cum masses on them

Trees with the end so badly weakend down unless the are so badly weakend that they are in the to breed
where the gum is exuding, become of the
whole the down the substitute of the contrees where the gum is exuding.

Substance drives them out. Such their
substance drives them out. Such the
substance drives them out. Such the
substance drives the out.

The substitute of the substitute of the
substitute of the substitute of the
substitute of the substitute of the
substitute of the substitute of the
substitute of the
substitute of the substitute of the
substitute of the substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of the
substitute of

Growing Tomatoes for Cannery Louis P. Hubbs, Prince Edward Co., Ont.

Whether tomatoes are to be grown for home use or for the canning factory it is desirable that they commence to ripen their fruit early in the season, to avoid the early frosts which we so often have in this country. The first thing necessary to the production of a large crop is the securing of alarge well-grown plants at the proper time for transplanting, which in this locality is the last three or four days of May or the first three or four days in June. To secure these plants the seed should be sown the street when the first three or four days in June. To secure these plants the test of the first three or four days in June. To secure these plants the test of the first three of the first three of the first three or four days in June. To secure these plants the test deep whether the first three or four days in June. To some the test of the first three or four days in June. To some these plants the test of the first three or four days in June. To some the first three days in June 1 to the first three days in June 2 to the first three days in Jun

tected from the cold winds.

Too much care cannot be exercised in the selection of good seed. Sow the seed of drills about four inches apart, covering south half an inch deep and firm the soil well on top. As soon as the plant segment of the segm

MOVE TO COLD FRAMES

At about five weeks from the time of sowing the seed the plants should be ready to transplant to the cold frames. These cold frames. These cold frames prepared by placing about four incess of coarse horse manure in the bottom of the frame. Put on this at least five inches of good garden soil. Have this soil made very fine in the bed and be careful to place the soil at an even discount of the frame. The soil at an even five inches a part each way.

If the plants should be set about four the lies apart each way.

If the same and the first in the first plants should show signs of new growth in two risk days. As soon as the new first in since the first plants are in in the careful advisable but aboutley air is not only advisable but aboutley are in is not only at the end of two weeks from the time of transplanting the cotton should be

taken off at least part of the day. Give plenty of water when necessary but do not water too often.

As it gets near the time to trans-

As it gets near the time to trans-plant to the field the plants should be left uncovered a longer time each day, and finally leaving them uncover-ed night and day if the weather does not get too cold. The water supply should be diminished a few days before transplanting in order that the plants may make a slow, stocky growth. The ideal plant is about four to five inches high and nearly as thick as a lead high and nearly as thick as a lead idea plant is about four to five inches high and nearly as thick as a lead pencil and of a good dark color. If handled this way the plants should start growth very quickly in the field. TRANSPLANTING

Great care should be taken in re-Great care should be taken in removing the plants from the cold frame in order to not break moving them to the field. The carrier or the field the plants can be set in the field without plants can be set in the field without plants can the field without plants can the field without plants can the crop will be and more money made by getting the crop all ripe and depreced to the factory at a time when they are all wanted.

CULTIVATION

CULTIVATION

Cultivation should begin as soon as the plants are set. The early cultivation should be deep and close to the plants, but later it should be shallow in order not to injure the roots. The later the cultivation can be continued the later the cultivation can be continued the later the cultivation can be continued. later the cultivation can be continued the longer the picking season will last. When plants are the picking season will last. When plants are the plants are the plants are the plants are the well hilled up with a hoe, but looking seeds the plants are the plants get a good start. In getting the land ready for toma-tose it should be rich and well plowed in the fall. In the suring as soon as

toes it should be rich and well plowed in the fall. In the spring as soon as the land is dry enough to cultivate cover of this issue of Farm and Dairy well, it should be cultivated and kept may be found on page 11, at top of well stirred until it is time to set the liftst column.

plants in the field. In this way the land will be bound to be loose and moist and the continuous cultivating during the summer will keep the land moist. Early cultivation will also have a tendency to prevent the grubs from destroying the growing plants.

A Hedge in One Year

A Hedge in One Year

T. McVittie, York Go., Ont.
It is easy to have a hedge from seed in one year. The mock cypress (Kochia scoparia) is the plant that will do it. It is a half-hardy annual and, of course, will have to be renewed every year. It will grow two or three feet in height and, if the plants are grown individually, four or five feet in circumference, forming compact bushes. It makes an effective authors are grown individually. The small authors mental hedge. The small authors mental hedge. The small authors mental hedge. The small control of the seed of t

very often destroyed by overcrowding when planting.

To grow for pot culture, the seed may be sown in March, giving the same treatment as for balsam or other similar annuals. They should be given good drainage, if intended for potential to the control of the same they are constitued as a constituent warr along the

as they are sometimes very slow in germinating. germinating.

For outdoor culture the seed may be sown in April and the seedlings planted out about three feet for the property of the seed of May, taking care to be seed out watered until established in watered until established in pround where they are to remain for ground where they are to remain for the summer. The seed may be purchased from seedsmen that advertise in Farm and Dairy.

in Farm and Dairy.



Graphic Demonstration of Experiment by the



We don't ask you to take our un-We don't ask you to take our un-supported word as to the superiority of Home-grown Seeds, we give you FACTS, as demonstrated by ex-perts of the Ontario Agricultural College. To make you acquainted

R.R.R.S

Reliable Red Ribbon Seeds

We will send you FREE, a package of Canadian Crown White Icicle Radish, and our new catalogue, if you ask for same. Also kindly send us names of friends who are busing reads this who are buying seeds this spring.

ONTARIO SEED CO., 113 King Street, Waterloo, Ont.

Pioneer Canadian Seed Growers to mention the name of this publication when writing to advertise

do in Ju all

resi mir of We

indi con

wou

mur

F and

inch in t

and class

piece botte

a su

h

to

fo

ESTABLISHED 1850

EEDS SATISFY

Regal Red Clover, \$ 7.50 Bushel Regal Alsike " \$10.50 Regal Lucerne , \$11.50 Regal Timothy , \$ 3.00

Cotton Bags, 25c. each The above brand is our best grade of Seed and complies with the conditions of the Seed Control Act

FREE-Write for our handsomely illustrated 100 page catalogue of Vege-table, Flower and Farm Seeds, Bulbs, Plants, Poultry Supplies, Garden Implements, etc.



Send for

The "Bissell"

Land Rollers.

Disk Harrows. Just send post-Card request by first mail to Elora, and we'll see that this interesting

Catalogue journeys to you by return mail.

Address: Dept. 1)

A Busy Man's Garden

A falson "A Busy Man's Garden."

A talk on "A Busy Man's Garden."

was given by Mr. R. B. Whyte
Ottawa, at the convention of the Quebee Pomological Society. He remarked that a garden was a part of the
home and, therefore, should be so arranged in summer that the owner
could live for a large part of the time
out-of-doors. Consequently, a certain
out-of-doors. Consequently, a certain
should not be open was needed. It
should not be a pince where a person
could grow that in which he was most
interested. Some grow vegetables. interested interested. Some grow vegetables, others fruit and others flowers. To be complete, more or less of the three should be included.

should be included.

How can a garden be made to fill these conditions? In the first place, a point very much overlocked was that of having wide, roomy paths, which must be soft to the feet and dry, clean, and easily kept dean. Secondly, there must be pleasant resting places here and there. It is impossible to the second of the second o ing places here and there. It is important to have summer-houses in suitable and proper places, where a person could sit down and read, or pass the time in any way he wished. Thirdly, time being limited, it is important to have labor-saving tools and to always have them sharp and ready for use. The things worth growing in such a garden are the best of vegetables and fruits, but it does not pay to grow turnips or potators.

to grow turnips or potatoes.

The great interest of the garden is the flower department. Grow such flowers as will give a continuity of bloom all summer and up to the time of frost.

ments we have shown you many points wherein the "Bissell" Land Rollers and Disk Harrows are superior to other

THE KING OF DISK HARROWS.

The "Bissell"

machines. But we would like to send you our catalogue so that you can study the whole detailed construction of these better-built, better-working, lighter-draft machines.

other advertise-

They should be grown in masses, as this gives an idea of the mass of color and beauty. They should be grown for quantity, garden decoration and cutting. For best results spring and cutting. For best results spring and cutting blants, annuals, perennials and climbers. For early flowers, Dutch bulbs were necessary. In May the first perennials come into bloom, and

dimers. For early flowers, Dutch bulls buils being necessary. In May the first open mind the me into bloom, and June, which time into bloom, and June, which time into the month, is the month of the read flower month, is the month of the first annuals come.

"One of the great problems in a carden," remarked Mr. Whyte, "is to have no waste ground; things should be coming up all the time." He spoke of the pleasure he experienced when in England last spring in visiting some peony gardens and seeing when in England has spring in visi-ing some peony gardens and seeing the wonderful improvement that had taken place in the last two or three vears in the size and color of peonies. He said that 25 years from now everybody would be growing peonies.

Transplanting Fruit Trees

W. J. Stevenson, Ontario Co., Ont Years of experience have taught us Years of experience have taught us that many lose their young trees through neglect at planning time. Be sure that the soil is in proper condition both in fertility and drainace. It is easier to prepare it before than after planning.

Secure none but first-class stock as you are only planning once; a mistake at this time is, for the balance of your life, a regret. Go over your bundle of trees and carefully exam.

you are only planting once; a mustake at this time is, for the balance of your life, a regret. Go over your bundle of trees and carefully examine the roots. Cut away all mutilated parts. Use a very sharp knile to make a smooth cut. Always bold the tree with the top on the ground and prune the root so that the cut will be on the under side; thus the young roots that spring from the cut will strike downwards instead of upwards as would be the case if the root is cut on the upper side.

The hole must be made large enough to receive the roots freely, and deep enough to allow several inches of good surface soil to be placed in the good surface soil to be placed in the depth and the tree stood in nursery. Hold perfectly upright. Fill with finest and best earth from the surface,

Hold perfectly upright. Fill with finest and best earth from the surface. Be careful that every root is covered

Be careful that every root is covered properly and pack firmly until near the top of the hole and then fill in surface light and loose.

Mulching is done by placing a layer of coarse manure from three to six inches deep, extending two or three feet further in each direction than the roots. This protects the earth about the roots retained. about the roots, retains the requisite moisture, and obviates the necessity

watering.
Pruning should now be done, removing all limbs to the point to where it is desired to have the top. where it is desired to nave the top.

Then cut back each limb, leaving from
four to six buds of last season's
growth. The necessity of pruning at
time of setting is generally a very
heart-breaking one as it spoils the
appearance of the trees for a time;
however, it must be done. Care

appearance of the trees for a time; however, it must be done. Care should also be used to give the proper form to the tree. The head may be left high or low as the planter prefers. Cultivation and training after planting is very important, but often neglected. After taking all the neglected. After taking all the control of the property of the prope planting their trees, many fair of success by not taking that after-care and attention that is essential. The wants of your growing trees must be carefully foreseen, and a faithful effort made to insure health and product-

Pruning should be done each year so that no necessity may arise for cutting large limbs. Trim as early as possible to the required height that it is intended that the head should be, and then the removal of large limbs

will not be necessary; but, when such operation becomes imperative, pare the wound smooth and cover with wax or thick paint to protect from the action of weather.

Articles for Fruit Growers and Gardeners

The March number of the The Can-adian Horticulturist, which is publish-ed in the same office as Farm and Dairy, and which is the only paper in Canada devoted exclusively to fruit growing and gardening, contains a wealth of valuable information. For the fruit grower there are articles on the best varieties of fruits for our the orchards, on spraying, orchard implements, root killing of trees and prements, root killing of trees and pre-vention, how to judge fruit properly, and on a score of other practical top-ies. A number of letters from the various provinces gives the fruit news of the Dominion.

An article on the making and man-min of hatbade is expendingly prac-

aging of hotbeds is exceedingly prac-tical. How to irrigate vegetables and small fruits is dealt with. For those who are interested in ornament-al gardening such topics are discussed as the best shrubs for planting, growing asters, sowing flower seeds, plant-ing for winter effect, window boxes ing for winter effect, window and so forth. An excellent and so forth. An excellent article tells what to do in the garden and orchard this month.

This number of The Canadian Hor-

ticulturist is an excellent one. The publication is improving with each issue. All persons interested in hortisulture should subscribe for it. The subscribtion price is only 60 cents a year or two years for \$1.00. If you will-send \$1.20 you will receive both The Canadian Horticulturist and Farm and Dairy for one year.

The pear takes kindly to most soils, but prefers a loose and strong clay.

Keep the orchard soil in good tilth until the first of August, and then sow a cover crop of clover. Allow it to remain until the following spring and then plow it under



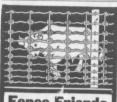
T.E.BISSELL COMPANY LIMITED.

If you want the most powerful. speedy, and serviceable hand

SPRAYING

The kind with the causes for trouble, delay and their consequent expensiveness left out, write at once to-

W. H. BRAND JORDAN STATION



Fence Friends

The Fence That Saves Expense

of the reasons why PEERLESS

n Wire Fence is better than other
is because of the PEERLESS

to fencing. Write for it today.

The Banwell Hoxie Wire Fence Co. Ltd., Dept. C.

Is Trying Cranberries

J. W. Ackerman, Norfolk Co., Ont.

J. W. Ackerman, Norfolk Co., Ont.

I planted a small plot of cranberries
in the spring of 1908 and they have
done nicely considering the late planting; I did not get them planted until
June 9th. Cranberries can be grown
all right but there is some work in
connection with the business.

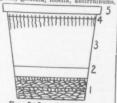
To prepare the ground I removed
the sod, which I cut about two inches
deep and unheeled it. Then I spaded
the ground and got it as near level
as possible. I put about two inches
of light sand on it and it is ready to
plant.

I have about half an acre prepared to plant this spring. I intend plant-ing about the first of May or the later part of April. I will tell more about my experience later.

Sowing Garden Seeds

We have failed as yet to procure sieves from any of the leading seed firms for the purpose of grading or sifting soil for seed sowing. For sifting soil for seed sowing. For this purpose a fine mesh of mosquito netting purpose a fine mesh of mosquito netting for the soil of the soil

gonia, gloxinia, lobelia, antirrhinums





Sowing Garden Seeds

A. V. Main, Lanark Co., Ont.

The success of our seeds generally results in how we treat them for germination. We are to apt to lay common echo. We are to apt to lay common echo. We are to apt to lay to the month of the construction of bad seed is our seed as rubbiased individual who furnishes slike on the condemning his seed as rubbiased individual who furnishes that the mountity altogether, but the non-appearance of seed germinating is often due to our own negligence.

For flower seeds good, clean pots and between the deep with several holes bored in the deep with a fine rose can an hour prior to sowing. The size of the seed will do not apply a shower bath overhead but hold the seed pot half way down in a pail or tank of tepid water. The soil from the bottom finding its way and the surface has bottom finding its way to sow in the surface has bottom finding its way for a good and ways, and better the seed tearmine the seed determine the seed determine the seed determine the seed of the seed will do with half an bottom of the pots or boxes, that the bottom of the pots or boxes, the seed of the seed of the seed of the seed of the seed will not be a seed down and the seed of the seed

SPRAYING

PROFIT

It is now recognized throughout the fruit growing countries of the world, and particularly in our own Dominion, that to grow fruit successfully and for profit

SPRAYING

is essential. Only in this way is the fruit grower able to protect himself from the ravages of the countless pests with which his crops are assailed year after year. Spraying has become a matter of simplicity, and in no case can a fruit grower urge that he cannot afford time for this very necessary operation.

COOPER'S VI FLUID

has been found to be the ideal Winter Spray. It requires only the addition of water to be ready for application to the tree. It kills spores of fungi and destroys pests so

OYSTER SHELL BARK LOUSE.

It invigorates the tree and is altogether the finest Fungicide and Insecticide ever placed before farmers.

SEND FOR FREE BOOK ON SPRAYING TO-

WM. COOPER & NEPHEWS, 152 Bay Street, TORONTO

FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Com-ON PUBLIC

FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District Quebbe Dairymon's Associations, and of the Canadian Holstein, Ayrshire, and Jer-sey Cattle Breeder' Associations.

2. SUBSCRIPTION PROCESSIONS.
2. SUBSCRIPTION PRICE, \$1.00 a year, strictly in advance. Great Britain, \$1.00 a year, for all countries, except Canada and Great Britain, add \$00. for postage, A year's subscription free for a club of two new subscribers.

3. REMITTANCES should be made by Post Office or Money Order, or Registered Letter. Postage stamps accepted for amounts less than \$1.00. On all checks add 20 cents for exchange fee required at the banks.

CHANGE OF ADDRESS — When nge of address is ordered, both t and new addresses must be given. old and new addresses must be given.

5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's iscarded.

6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

any agricultural pleased to receive

any agricultural topic. We are always pleased to receive practical articles. The CIRCULATION STATEMENT CIRCULATION STATEMENT and the content of the paper sent subscriptions to Farm and the content of the paper sent subscriptions to the content of the paper showing its do not contain any dead circulation. Sworm detailed statements of the circulation of the paper, showing its distribution of the paper show

FARM AND DAIRY PETERBORO, ONT.

TORONTO OFFICE: Room 306 Manning Chambers, 72 Queen St., West, Toronto.

TAKE CARE OF THE ORCHARD

The orchard bears the brunt of neglect on many farms. Once it is planted, it is left to take care of itself. The weeds and grass are allowed to grow, the soil is never fertilized, the limbs are never pruned, insects and diseases are given full swing and the trees must fight for an existence. The other crops of the farm are given all the attention that they need but the old orchard receives none. Is it any wonder that many farmers say that the orchard doesn't pay?

There is an orchard located within three miles of the office of Farm and Dairy that doesn't pay one-fifth what it sshould. In it there are over 200 mature trees. Last year these yielded 100 barrels of apples, 75 of them No. I's and No. 2's, and 25 culls. In its best year it yielded about 200 barrels of which 150 were No. 1's and No. 2's. These apples were sold for \$1.00 a barrel in the orchard. The average 75 cents. Had these trees been cared for properly and regularly every year, they would have given a return of \$5.00 a tree at least.

Consider another instance. years ago the farmers of Norfolk County in the vicinity of Simcoe had orchards similar to this one, and they knew that they were not paying. These men knew that there was a market for good fruit, and they decided to grow good fruit. They got together, largely through the influence of one man, who had been in the apple business for some years, and organized a co-operative association They cultivated and fertilized their orchards, they grow cover crops, they pruned systematically, sprayed intelli gently, and paid attention to all the demands of up-to-date orchard management. Last year they received \$10.00 a tree for their fruit. Does not this prove that it pays to attend to the orchard?

Farmers who have orchards should look after them. Those who have none should plant them. Then form a co-operative association for selling the fruit to the best advantage. It pays to make the most of the orchard.

HAVE A GARDEN

Every farm should have a vegetable garden to supply the home table but on how many do we find them? There are hundreds of farms where grain and root crops for stock feeding are grown on large areas, but scarcely a rod of land is devoted to the growing of vegetables for home use. should not farmers and their families have vegetables all the year around then the labor and expense incidental to their culture is so small? It is, in most cases, because gardening is considered by the farmers as work for the women folks and the women folks haven't the time. This condition of affairs should not be. A small plot of ground laid out so that it can be worked by horse power, should be set aside for this purpose, and it should be worked by the men. It should be located near the house, where convenient for working at odd times and for gathering the crops as required.

Those farmers who have gardens would not be without them for ten times their cost in time and expense. They know the pleasure and profit that the garden yields. If you have not had a garden, start one this spring. Once the start is made, the plot will grow in usefulness and in

THE NET PROFIT THAT COUNTS

The members of the Dominion Ayrshire Cattle Breeders' Association recently passed a resolution urging Hon. Sydney Fisher to so extend the work of the cow testing associations as to provide for the gathering of information that will show the cost of producing the milk as well as the net profit per cow. It is to be hoped that Hon. Mr. Fisher will adopt the suggestions.

Of late years, altogether too much attention has been given to the making of large milk and butter records without taking into consideration the without crop rotation and the use of

danger that the craze for large records may lead us into dangerous ex-In order that they might tremes. make large records some breeders have been allowing their cows to go dry for a year so that they would enter the test in the best possible condition. If they are to hold their own, other breeders will have to do the same. Large records, made under such conditions, are not of as great value as those made under conditions within reach of the average breeder or farmer

After all, it is not the quantity of milk or butter fat a cow produces that is most important. It is the net profit she returns above the cost of feed and care. If too much importance is attached to large records it is apt to divert attention from what is almost equally important, that is, the study of economical methods of feeding.

In the cow testing associations in Scotland and Denmark the cost of production is considered and the net profit per cow is, figured out It should be the case in Canada. We would like to see Hon. Mr. Fisher appoint one or two capable men this year to investigate carefully the conditions governing the production of milk on a few dozen representative dairy farms. The results would add immensely to the interest taken in the work of the associations and to its

SOIL FERTILITY IMPORTANT

It is commonly said that, as farmers, we adhere too closely to the ways of our fathers. The statement for the most part is true, yet it must be remembered that we need not so muca a revolution of farm practice as we do an improvement of it.

All agriculture depends upon the growth of plants. The profit accrung to us depends primarily upon the value of the crops the farm produces. Continuous cropping the soil results in a loss of fertility. With what rapidity and to what extent, the enced many years ago before adopting is great at all times. a rational system of mixed farming and live stock husbandry.

In the older sections of the West, the soil at one time was thought to be inexhaustible. The evils of continuous cropping have there long since become apparent. Many have been obliged to move on to a virgin soil or to change their methods of farming. To build up and maintain a fertile soil is the most important problem that confronts us.

The subject of soil fertility is a complex one. It is one of our foremost economic questions and must be given serious consideration. It is high time that those of us, especially, who grow and sell grain, were investigating beneath the surface. The cause of poor yields lies there. Soil fertility should receive more study at our hands. It should be one of the foremost topics at farmers' institutes and agricultural meetings.

We have been forced to recognize the fact that all soils are exhaustible. Plant food cannot be maintained per tree, therefore, at their best, was cost of production. There is grave manure. Plant food, not unlike min raise the coming year?

crals, cannot reproduce itself. Its supply is limited and that type of agriculture which removes this wealth from our soil and sells it off the farm, and makes no equivalent return, is not permanent. Give thought to the fertility of the soil. It is the basis of all agriculture.

CONVENIENCES IN FARM HOMES

A sign of the good times that farmers in many localities are experiencing is the modern improvements that are being installed in many farm homes. Recently while in Durham Co., an editorial representative of Farm and Dairy was pleased to note the spirit of progressiveness with which the farmers of that locality seemed imbued. This was noticeable in many ways, but particularly in the matter of installing conveniences in the house and thus lightening the burden of those whose domain is therein.

A case particularly worthy of mention was in the house of Mr. Northcott. His son, being handy with tools and desiring to have things as up-todate as possible upon the farm, had placed in the house a modern system of plumbing, including a hot and cold water system, and bath room. A cesspool had been constructed in the garden to take care of all waste water from the house. The water was supplied from the well at the barn and forced to the house by means of the windmill. Everything about the system was all that could be desired. It had been installed at a considerable cost, but we were assured it was a paying investment and worth while.

Why should the farmer's wife not have these conveniences? Even the laboring man in the city has his hot water attachment to his stove, and water "on tap." We put the water into our barns for our cattle. Why should we not place it also in the house? The farmer's wife is the money maker of the farm. She feeds them all. Why not give her the consideration that modern conveniences majority of Ontario farmers experi- allow and thus lighten her load which

BREED THE BEST

"Horses, except good ones, are rather dull," writes our correspondent from Belwood, Wellington Co., Ont. How often the force of this statement has been brought home to us through the ups and downs of the horse breeding business! horses are ever in demand. At the best of times, there is but an indifferent market for the other sort.

fa

to

by

th

op

by

ca Th

gr

foo

Now is the time to view the stallion you will use next spring. Make sure that he is the best obtainable for your purpose. When the choice of a stallion is left until the travelling season, one is too often victimized by the glib-tongued stallioner. A good horse can be raised on practically the same amount of feed as the indifferent one. The better horse will cost a few dollars more in stallion fees at the outset, but this will be returned many-fold in the extra value at selling time; besides, there is an ever-ready market awaiting it. Which will you

Manitoba Dairymen Convene

"Manitoba is making considerable progress in milk production and in the manufacture of milk products. the manufacture of milk products. Manitoba will make me paid progress, however, when its dairymen pay more attention to the 'cond of dairying,' no said Mr. T. L. Hacker, Professor of Dairy Husbandry Park, Minn., as he addressed the 23rd annual convention of the Manitoba Dairymen's Association held at the Agricultural College, Winnipeg, recently. Professor Hacker is recognized as the foremost expert on the American continent on the feeding

nized as the foremost expert on the American continent on the feeding of dairy cows with balanced rations for scientific milk production. The attendance at all the meetings was large and the interest of the audience was sustained to the end. The membership of the association has increased during the past year. It now numbers upwards of 115. Some of the prominent sneakers at the con-It now numbers upwards of 115. Some of the prominent speakers at the convention, besides Prof. Haecker, were Mr. J. H. Sheppard, Dean of the Agricultural College, Fargo, N.D., J. A. Ruddiek, Dairy Commissioner, Ottawa, Prof. J. W. Mitchell, Prof. essor of Dairying, and Prof. Bedford, of the M. A. C., Winnipeg.

OFFICERS OFFICERS
The officers elected were: Pres.,
W. B. Gilrey, of McGregor (re-elect-ed); lat vice-pres., J. P. O. Allaire,
St. Boniface; 2nd vice-pres., L. A.
Race; sec.-treas, W. J. Carson,
Winnipeg; directors, D. Langill,
Woodlands; Chas. Tully, Reaburn;
L. A. Gibson, Winnipeg; J. R. Nesbitt, Shoal Lake; John Gill, Oak
River.

The president, Mr. W. R. Gilroy, in opening the convention, reviewed the very successful season that the farmers and dairymen in Manitoba have just experienced. He paid a touching tribute to the late Mr. Waugh, one of the founders of the Manitoba Dairymen's Association, whose portrait was unveiled during

Mr. J. A. Ruddick addressed the meeting on the outlook for the Manineeting on the outlook for the Mann-toba dairymen. He reviewed his visit to the dairy countries of the old world, and showed along what lines Canadians should follow. Dean J. H. Sheppard gave a very practical address on the "Selection and Points of the Dairy Cow." At one of the evenress on the "Selection and Points of the Dairy Cow." At one of the even-ing meetings the "Evolution of Dairy-ing in Manitoba," from 1870 to the present date was handled by Mr. Champion, who is the only surviving member of the founders of the Mani-toba Dairyene". Accurage toba Dairymen's Association.

MANITOBA'S WEALTH

While speaking on the advantages to agriculture and the dairy business to soil maintenance, Dean Sheppard said, "The first six inches of Manitoba soil constitutes all of Manitoba's tons soil constitutes all or manitons as wealth. She has no great forests, fisheries, rivers or manufacturers to fall back on. If the fertility of Mani-tobs soil is wasted, the prosperity of Manitoba is gone." The speaker warned farmers not to rob their lands by continuous wheat mining until they by continuous wheat mining until they were worn out like the wheat land of the Dakotas. He urged them to adopt soil preserving methods before it was too late.

Dakota they can grow more wheat on a rotation of roots followed by wheat for three years than they can by growing wheat for four years. can by growing wheat for four years. Tho root crop is extra profit. By Tho root crop is the profit of the color of crops is stated. Where a rotation of crops is stated with the profit of the color of crops is the profit of the color of crops is the profit of the profi

then the silage produced will be sweet and good. Mr. J. A. Ruddick gave an illustrated lecture on his old coun-try trip, showing pictures of the old country buildings and stock. The convention all through was one of the most successful ever held in the West.

Dairy Breeds For Dairying

"The advantages of Employing Dairy Bred Stock" was the subject handled by Prof. Haecker, of St. Dairy Bred Stock" was the subject handled by Prof. Haecker, of St. Anthony Park, Minn., an American expert on the feeding of dairy cows and balanced rations for scientific milk production, at the recent Dairy-men's Convention held at Winnipeg. He pointed out that: He pointed out that the dairymen He pointed out that the dairymen or Manitoba would make much more pro-gress when they paid more attention to "the cow end of dairying." That is, they should breed cows that will make large yearly milk records. For the special dairy farm, where the best of feed and care can be given, the Josaw and Guernaw are the most.

the Jersey and Guernsey are the most profitable dairy cows. But under av-erage Minnesota and Manitoba farm erage Minnesota and Manitons tarm conditions, where the cows get only ordinary care and feed, he would not recommend the somewhat delicate dairy breeds. He would recommend the improvement of common cows by better feeding, selection of the best wilkers and grading up. As better feeding, selection of the best milkers, and grading up. As the herd improves the dairyman will also increase his stock of information and experience, and will then be ready to care for the special dairy cow as she must be cared for. The average dairy cow of Manitoba

The average dairy cow of Manitoba was a better much cow than the average farmer was a good dairyman. By this was meant that the common cows did not receive the care and food nec-essary to bring out their utmost milk capabilities.

At the Minn. College dairy, they At the Minn. College dairy, they have always kept common cattle to compare with the dairy breeds. The special dairy cows invariably gave greater returns for feed consumed. To illustrate what effect dairy farms had on milk production, 18 years ago the herd was divided into two sets, the heaft wown in one day and the year. the herd was divided into two sets, the beefy cows in one lot, and the regular dairy type in the other. The angular cows averaged 359 pounds of butter, produced at a cost of 11.7 cents a pound; while the beefy cows averaged only 265 pounds, produced are accepted only 265 pounds, produced are accepted only 265 pounds, produced are accepted only 265 pounds, produced as a cost of 14.2 cents. All these cows are good dairy cows. Type has a lot to do with economical milk production.

Some interesting comparisons could be made between the best and poorest cows in the Minnesota hero. The poorest cow in the herd gave a gross income of \$52, with a net profit of \$19, while the best cow gave a gross moome of \$95, and a net profit of \$56. The poor cow was one of common farm stock, the good one a Jersey. Thus one high-ch ss Jersey cow is worth two common cows for dairy purposes.

Our Insurance Premium Offer

Elsewhere in this issue will be found the details of our offer to give absolutely free of cost for the securing of lutely free of cost for the securing only one new yearly subscription to only one new yearly subscription to Farm and Dairy at \$1,00, an up-todate accident insurance policy. This policy is issued by the Imperial Guar-antee and Accident Insurance Co. of

In recent years the liability to accidents on the farm is much greater than was the case several years ago, owing to the introduction of laborcan by growing wheat for four years. The root crop is extra profit. By growing clover the wheat crop following gave bigger y-ields. Where a rotation of crops is adopted, live stock fodders produce more money from the control of crops is adopted, live stock fodders produce more money from the control of crops in adopted, live stock fodders produce more money from a control of the control of the

USUAL CROP OF CREAM SEPARATOR SNARES AND TARES

If actual merit alone prevailed the DE LAVAL cream separator would be the only one made, sold or used.

But the dairy farmer with his dollars is an alluring proposition to those who "need the money," so that every season brings with it a new crop of separator fakes and fables, with some of the old conjurers over again and always a few fresh ones.

Last year the new and improved line of DE LAVAL machines literally swept the field. This year everybody has a "new" machine, which is the one thing they universally harp upon in their talk and advertising. But it is mostly bosh and nonsense. There is mighty little new to them. No more DE LAVAL patents have expired, so that there is nothing else "new" that they can lay hold of this year.

There's the usual crop of fakirs appropriating the facts of DE LAVAL separator use and the endorsements DE LAVAL separators have received, and quoting them as though they applied to their own inferior imitations of the standard cream separator.

There's the concern that makes an inferior disc separator and speaks of the "disc" separator being "the machine which has won out universally in Europe, the home of the disc separator." True, but it was the DE LAVAL that has done the winning out in Europe, as it has in America.

There's the political separator concern, with the new "year" or "cents" trademark, whose claims it is to be hoped nobody ever believes, and which manifestly practises the circus man's theory that the great American public ever likes to be fooled.

There's the only concern which has stuck to the abandoned DE LAVAL "hollow bowl," of 30 years ago, but will this year desperately join the procession of 10 year back DE LAVAL imitations with a "disky bucket bowl" machine.

There's the "Trust," striving to complete its monopoly of dealer and farmer, harvesting much costly separator experience, largely at the expense of buyers-for-use, through trying to build a cream separator like ordinarily made farm machinery.

There's the "mail order" outfit, with their cheaply made machines, bought here and there, not made by themselves or sold under the real manufacturer's name, all claiming the earth, and many of the things that should be below it.

But the merry lot changes and dwindles every year. They gradually drop out and leave their unfortunate patrons helpless with trashy machines. More will fade away this year. The dairy farmer, like the creamery man, is coming to know something of separators. He doesn't swallow mere "claims" so eas ily. Ninety-eight per cent. of the world's creamerymen use DE LAVAL machines. The percentage of farm users content with nothing else is always increasing.

There isn't a single reason why every man who buys a cream separator this year should not buy a DE LAVAL. There are many reasons why he should. The best costs no more than the various grades of inferior imitating machines.

A DE LAVAL catalogue may be had for the asking. A DE LAVAL machine may be tried for the asking.

THE DE LAVAL SEPARATOR CO.

173-177 WILLIAM STREET MONTREAL

14 AND 16 PRINCESS STREET WINNIPEG

Whey Butter

Reports have been received by the Department of Agriculture from J. W. Mitchell and Frank Herns upon the seperimental work conducted by the seperimental work of the seperimental work, and also that of Professor Dean. So far as we have been able to learn the reports show that allowing for shrinkage in separating the whey and the loss of fat in the butter-milk, 1,000 lbs. of whey from cheese made under average factory conditions, will yield about 2.3 lbs. of butters, which we will be seen as a lb. less than regular cream to accume that it will not pay a factory receiving less than 10,000 lbs. of milk per day to make whey butter. The business may be made profitable by a number of factories combining and separating the whey at each factory and forwarding the cream to a central station to be made into butter. Whey butter, when properly made, is of fair quality when fresh, but it will not keep for any length of time.

Affecting the Over-run

James Stonehouse, Creamery Instructor, Eastern Ont. The manner of testing at different creameries sometimes very materially affects the over-run, and consequently affects the price paid per lb. of

Creamery Department
Butter Makers are invited to send contributions to this department, to ask questions on
matter relating botter making and to sugmatter setting to butter making and to sugtending of the tests a difference of
two per cent. can easily be made
from what the actual reading should
be. A difference of two per cent. on
a 25 per cent. cream makes a difference of 1½ cents a lb. of fat if the
butter is sold for 20 cents a lb.
Where there is a uniform lowertender.

butter is sold for 20 cents a lb.
Where there is a uniform lowering of the tests in a creamery the
patrons do not suffer, as that does
not affect the amount of money to
edivided among the patrons, but it
does affect the price patrons, but it
does affect the price patrons, or
erent creamers, if one creamery
reads correctly and another reads too

low.

These are factors entering into the manufacture of butter which affect the over-run seriously. These factors are or should be largely under the control of the maker. If a maker can take a vat of cream and make 50 lbs. more butter than another maker can, that is skill which is worth money to a community; but the manipulating of tests is not the them and the same than a train instead of the ability of the control of the maker. If a maker can take a vat of cream and make 50 lbs. more butter than another maker can, that is skill which is worth money to a community; but the manipulating of tests is not the than pulsar. can, that is skill which is worth money to a community; but the manipula-ting of tests is not the kind of skill we want and is of no value to the patrons of some other creamery dispatrons of some other creamery dis-satisfied with the returns they are

Creamery Business in Manitoba

The increase in value of dairy products in Manitoba during the last ten years was outlined by Professor J. W. Mitchell, the newly appointed professor of dairying at the M. A. C. at the recent convention of the Manitoba Dairymen's Association. In the period 1896 to 1900 the average production of butter was 2,690,922 pounds, valued at \$87,944.78, or 14 cents a pound. From 1901 to 1905 the average production had increased to 4,301,173 pounds, valued at \$722,336.78, or 16.8 cents a pound. the average production had increased to 4,301,178 pounds, valued at \$722,336.78, or 16.8 cents a pound. In 1906 and 1907 the average was

5,533,769 pounds, valued at \$1,115,543.81, or 20.1 cents a pound. Thus, during this time the production of butter had increased over 200 per cent., and the price per pound had increased from 14 to 20 cents a

Professor Mitchell drew attention rroressor antenen crew attention to the unsatisfactory rates of the ex-press companies on sweet cream. The express rates on sweet cream are twice express rates on sweet cream are twice as high as on soured cream. As a result, the cream is never delivered until it is ripened; then it arrives at the factory overripe, and in unfit condition for making good butter.

A committee was appointed to wait on the Railway Commission in March

At a recent meeting of the Montreal Produce Merchants Association it was stated that a creamery could be equipped with a pasteurizing plant for about \$150.

about \$150.

Messrs. Hodgson Bros. & Rowson,
Limited, Cheese and Butter exporters,
Montreal, take exception to this statement as misleading and unfair to the
ment as misleading and unfair to the
state of the state of the state of the state
it will retard, more than anything
the adoption of this very necessary improvement in our butter trade,
sary improvement in corprised swill
goes out, creameries proprietors will
goes out, creameries proprietors will
goes out, creameries proprietors They fear if this statement as to cost goes out, creameries proprietors will not be able to get any increased price for making of their patrons and will, therefore do their patrons and will, therefore do their patrons and to delay the adoption in their power to delay the adoption. They ask that a plain the condition of the actual cost be made and condition the actual cost be made and conditions of the Trade Bulletin, as follows of the Trade Bulletin, as follows of the Trade Bulletin, as follows.

we are convinced that an outlay of at least \$300, would be necessary to properly equip the ordinary factory, the property equip the ordinary factory, and the property of the property of the labor, the property of the property of the maker, that he should be paid as ary, in ordinary of the property of the least ½ cent more price for the butter so treated, and we are satis-fied the trade generally would be wil-least ½ cent more per pound more for butter properly pasteurized. we are convinced that an outlay of

butter so treated, and we are satisfied the trade generally would be willeast ¼ cent more per pound. It was the will be will b

As an indication of the food value of milk, Professor Long states that a man of average weight (1984) when kept inactive, can live arthoconciums put on flesh on three quarts a day he could do a good day's work. So much fluid would, however, not be a suitable diet for a healthy man. But four quarts of milk are equal in food value to 1½ lbs. of bread, 1½ lbs. of post-loses, ½ lb. of boncless beef and 3 oz. of tutter, and there is no waste, while the considerable waste in the other ration excepting the butter. other ration excepting the butter.

Renew Your Subscription Now.

See That Can? It Never Moves!

Other separator manufacturers have been trying to imitate it for five years. That shows their high opinion of a low, steady supply can which need not be removed in order to take the bowl out of the machine.

OUR machines are the only cream separators that have such a supply can. Other manufacturers have not been able to imitate it. That is because all common "disc" or "bucket bowl" separators have bowls fed through the top-such bowls



IN A CLASS BY ITSELF

always be lifted off before the covers or bowl can be removed.

OW supply cans are only possible in cream separators having a suspended bowl fed through the bottom. Our machines are the only cream separators having such bowls, and our patents prevents any other manufacturer from making them.

SUPPOSE you had the supply can, on any separator, full of milk and found it necessary to remove the bowl? It would be mighty inconvenient to lift the supply can off, wouldn't it? No need to with the Tubular.

bowls fed through the top—such bowls must have the supply can set directly over them. Consequently, the supply cans are always the highest part of all common "disc" or "bucket bowl" machines and must be provided by the supply can and must be be provided by the supply cans set says to fill, not necessary to move to take out the leading industries. 1908 sales were way be provided by the supply cans, so easy to fill not necessary to move to take out the leading industries. 1908 sales were way be provided by the supply cans, so easy to fill not necessary to move to take out the supply cans, so easy to fill not necessary to move to take out the leading industries. 1908 sales were way be provided by the supply cans are always the highest part of all common beautiful to the supply cans, so easy to fill not necessary to move to take out the leading industries. 1908 sales were way be provided by the supply cans are always the highest part of all common beautiful to the supply cans are always the highest part of all common beautiful to the supply cans are always to fill not necessary to move to take out the supply cans, so easy to fill not necessary to move to take out the supply cans, so easy to fill not necessary to move to take out the supply cans, so easy to fill not necessary to move to take out the supply cans, so easy to fill not necessary to move to take out the supply cans, so easy to fill not necessary to move to take out the supply cans, so easy to fill not necessary to move to take out the supply cans, so easy to fill not necessary to move to take out the supply cans, so easy to fill not necessary to make their manufacture one of Canada's necessary to make the remaining the supply cans, so easy to fill not necessary to fill no

sive Tubular advantages wil make our 1909 business still greater. Write for Catalog1 No. 253. It will interest you.



The Sharples Separator Co.

Toronto, Ont.

Winnipeg. Man.

Important Meeting of Dairymen

The question of legislation was
taken up and discussed at a joint
meeting of a deputation from the
Eastern Ontario Dairymen's Association and the Western Ontario Dairymen's Association and the Western Ontario Dairymen's Association held in the office of
Mr. George A. Putnam, Parliament
Buildings, Toronto, on Wed., Feb.
24th. Those present were: J. R.
Dargarel, M.L.A., Elgin, Heary Glendinning, Manilla, James R. Anderson,
Mountain View, T. A. Thompson, Almidden, C. G. Publow, Kingston, James
Whit, C. G. Publow, Kingston, James
Whit, C. G. Publow, Kingston, James
Whit, C. B. Murphy, Brockville, F.
R. Herns, L. M.
R. H. Herns, L. M. H.
R. H. H. H. H. H. H. H.
R. H. H. H. H. H. H. H.
R. H. H. H. H. H. H. H. H. H.
R. H. H. H. H. H. H. H. H. H

tee.

It was moved by T. A. Thompson and seconded by Mr. J. J. Parsons, that the joint committee request the Minister of Agriculture to pass some kind of legislation that will prevent the indiscriminate building of cheese the indiscriminate building of cheese the indiscriminate building of the indiscriminate bui

appointee of the Government. The motion was carried.

The following clauses in the Dairy Act were recommended to be amended. Sec 14 by giving power to the instruc-tor to inspect the product manufac-tured therefrom (cheese butter or con-densed milk)

tured therefrom (cheese butter or con-densed milk). Mored by Mr. Glendinning, second-ed by Mr. Everetts, that Messrs. Herns, Publow, Dargavel and Put-mb appointed a committee to go over the act and suggest the above and some other improvements thereto.

Carried.

Moved by Mr. Glendinning, seconded by Mr. Everetts, "that in the opinion of this joint committee two magistrates with 'Provincial Powers' magistrates with 'Provincial Powers' should be appointed to adjudicate upon all cases of violation of the Cheese and Butter Act, of Ontar and Butter Act, et al. (1997) and that the Minister of Agriculture he asked to make such appointments." Carriet.

Moved by Henry Glendinning, see

Cheese Department

Makers are invited to send contributions to be inition of Canada be memorialized to head contributions to the Cheese Maker's Department.

Makers are invited to send contributions to be inition of Canada be memorialized to the department. The area of the Cheese Maker's Department. The state of the Cheese Maker's Department. The cheese Maker's Department was taken up, and an explanation of the working of the competition in the West was explained by Mr. F. Herns. He read the rules adopted by the Western Association during the past year, and after much discussion it was defined that a Dairy Herds' Competition was taken up and discussed at a joint taken up and the province similar to the particula

quire.

The Minister of Agriculture, Mr.

Duff, was introduced to the various
members of the deputation, after
which the resolutions which had been memoers or the deputation, after which the resolutions which had been passed, were read to the Hon, gentleman, and able addresses delivered by Mr. T. A. Thompson, as mover of these resolutions, and Mr. J. J. Parsons, as seconder, as well as Mr. G. G. Publow, Chief Instructor for Eastern Ontario, F. R. Herns, Chief Instructor for Western Ontario, M. K. Everetts, John H. Singleton, Dr. Preston, M.P.P., and John R. Dargavet, M.P.P., president. Hon. Minister of Agriculture gave Hon. Minister of Agriculture gave Increasing address, and said that he would do everything in his power land the control of the deputation.

Mr. Thomas Mulvey, B.A., K.C. Mr. Thomas Mulvey, B.A., K.U., was present, and gave it as his opin-ion that a request for the appoint-ment of a magistrate with "Provincial Powers" would not be granted.

A Presentation

J. W. Mitchell, B.A., professor of dairying in the Man. Agr. College, which was made the recipient a short time ago of a beautiful gold watch, suitably inscribed, from the associate members of the Eastern Ont-ario Dairymen's Association, and a

few others.

Prof. Mitchell held the position of
Superintendent of the Eastern Dairy
School, Kingston, for the past five
years, during which time the school,
under his able leadership, ranked second to none in the Dominion as a
means of imparting dairy knowledge
to those who are necessarily in the desire to those who are engaged in the dairy

Mitchell's thorough knowledge Prof. Mitchell's thorough knowledge of all the subjects necessary for a for-lar and comprehensive course in dairy-ing will make him an especially studied member of the staff with which he is now associated. His many friends in the East all wish him every success.

Paying by Babcock Test

Faying by Delicoura teem.

Does the labecok test give rich milk too
much advantage in choese making? It is
claimed that even after per cent. has
been added rich milk still, has a bonus.
Do the factories in Westermarko that
pay by test add 2 per cent.? In there a
greater loss in the whey from rich milk?

J. D., Peterboro Co., Ont.

In "Canadian Dairying," page 147, you will find that milk testing 3.22 per cent. of fat will make 90.3 lbs. of cheese per 1000 lbs. of milk, and milk testing 4.23 per cent. of fat will make 106.7 lbs. of cheese per 1000 lbs. of milk. If cheese is selling for 8 cents a lb, then by the pooling system of payment a patron whose milk tested 3.22 per cent. of fat would receive \$8.27 for 1000 lbs. of milk. By the straight fat test he would receive \$7.18. The actual value of 90.3 lbs. of cheese at 8 cents a lb. is \$7.22. This is what the patron should receive for 1000 lbs. of milk testing 3.22 per cent. of fat provided this milk makes 90.3 lbs. of cheese. This practically the same as the amount received by In "Canadian Dairying," page 147, the same as the amount received by

very small, but this would depend to a great extent on the condition of the milk as to acidity and so forth. The average loss of fat in the whey for Western Ontario, 1908, by months was as follows

May, .226 per cent., test of milk 3.3

per cent.
June, .223 per cent., test of milk,
3.37 per cent.
July, .226 per cent., test of milk,
3.38 per cent.

August, .236 per cent., test of milk, .5 per cent. September, .23 per cent., test of nilk, 3.65 per cent. October, .241 per cent., test of milk,

3.8 per cent.

Frank Herns Chief Instructor for Western Ontario.

New Chief of the Dairy Division. New Chief of the Dairy Division.— The Secretary of Agriculture has ap-pointed Mr. B. H. Rawl as Chief of the Dairy Division of the Bureau of Animal Industry, Washington, D.C., to succeed Prof. Ed. H. Webster, who to succeed Prof. Ed. H. Webster, who resigned some weeks ago to accept the position of Dean of the State Agricultural College at Manhattan, Kans. Mr. Rawl has heretofore had charge of the dairy farming investigations of the Dairy Division. He is a graduate of the Agricultural and Mechanical College of North Carolina, and has pursued special courses at the Pennsylvania State College and the University of Wisconsin.



its cost is no inconsiderable item.

Windsor Salt goes farther-and does better Its cost is really less work

-and it makes the butter worth more. Ask your grocer.



We have heard a great deal lately about unfair methods in the selling of cheese. Good cheese is always in about unfair methods in the selling of cheese. Good cheese is always in demand. If the patrons of our cheese factories would pay more attention to lessening the cost of producing to lessening the cost of producing the producin

FOR SALE AND WANT ADVERTISING TWO CENTS A WORD CASH WITH ORDER

CREAMERY AT BEETON, ONT .- Co up-to-date equipment; stone buildi close to station. Must be sold by Ma 8th. Good reasons.—R. A. Thom Barrie, Ont.

THE MAN IN ONTARIO who wants to buy your creamery could not be found by Sherlock Holmes as surely and as quickly as an ad, in this column would find him. The cost of this is lower, too.

Patented 1906

"PERFECT" STEEL CHEESE VATS

The most popular and sanitary line of dairy utensil in Canada. Steel Cheese Vats, Steel Whey Tanks, Steel Cream Vats, and Steel Curf Sinks. Steel Agita-tors, Steel Butter Whey Tanks, Milk Cooling Tanks, Steel Whey Leader, Smoke Stack.

Let us quote you on entire equipment Get our Catalogue The Steel Trough and Machine Co. TWEED, ONT. LIMITED

THID

IS SUCCESSFULLY USED IN MANY OF THE LARGEST CHEESE FACTORIES IN CANADA

When buying a Curd Agitator buy one that has no weak spots. The Baird Agitator has no weak spots but it has many strong points that are not found in any other Agitator.

The Drive Gears are so constructed that they may be fitted to vats of different lengths, which change might be necessary when replacing your old vats with new ones.

The Frame is neat and strong, being made of 11 in. pipe. unnecessary bolts to become loose to cause extra attention The Driving Jack is made in a manner that will permit the paddles in any vat being thrown out of gear.

The Paddles work in every part of the vat which assists in giving smooth even texture to the cheese.

There are many other good points about this Agitator that you should know. Write at once for information to—

WM. BAIRD, Woodstock, Ont., Manufacturer

WHITE & GILLESPIE, Peterboro, Ont., Agent for East of Toronto

LONDON, ONTARIO

E. LEONARD & SONS

ENGINES AND BOILERS

FOR CHEESE AND

BUTTER FACTORIES

The largest output of any factory

in Canada

Again, with cheese selling at 8 cents Is is desirable to mention the name of this publication when writing to advertisers





THERE is need of the tiniest candle As well as the garish sun: The humblest deed is ennobled When it is worthily done. You may never be called to brighten The darkened regions afar; So fill, for the day, your mission By shining just where you are.



The Domestic Adventures

By Joshua Daskam Bacon (Concluded from last week)

"You're the dearest thing, you "The Stuyvesants'," I said.
"An dist then the last drop of doubt and indecision melted out of my hap"Again the Stuyvesants'," said Sa"Again the Stuyvesants'," said Sa-

and indecision melted out of my happy heart. (It is surprising how one grows accustomed to its happening.)

I felt him shiverin —Mamie's aunt

had told me how his coat caught fire on the way to my room—and while

on the way to my room—and white I began to pour some tea for him he noticed my wet bed slippers. 'Heavens, you poor child, what was Miss Archbold thinking of?' he cried —the idea of Sabina's attending to my slippers!—and he threw open the

"Has nobody here a dry pair of shoes?" he called re-rovingly. Sabina and Mam'e's aunt emerged from the bedroom—there was no other

door out-and fell upon me apologeti-

When I went back into the kitchen Mr. Van Ness stood there warming his hands at the fire. I took my courage in both hands and walked straight

age in both hands and walked straight up to him.

"I know about you and Sabina, now, Mr. Van Ness," I said hurriedly. "I—I heard in the cart, but I could not wake up exactly. I am sorry I kept you away for ten days. But I thought you—I thought it was Chloe, you see."

He stared at me, and I was terribly conscious of my school-girl pigtails.
"You thought it was Chloe?" he repeated uncomprehendingly.

"To marry her, you know," I ex-He looked positively frightened for a moment

a moment.
"But—but—how extraordinary!" he
exclaimed. "How could anyone—surely no one could see Miss Archbold
and—not that she is not a most attractive young woman—dear me, and extremely vivacious; it is a pleasure extremely vivacious; it is a preasure to meet her, I am sure, but—oh, you are not in earnest, really! Ever since I met her"—and when he smiles I wonder how I could have been afraid of him for a moment—"I have admired Miss Archbold more than any moment I ever saw. You understand woman I ever saw. You understand that, I am sure—she tells me you are such old friends."

"You cannot admire her too much," You understand

I told him soberly; had I always been fair to Sabina of late?
"How much have they succeeded in saving, Hunter?" Sabina asked, when we had forgotten how long ago it was that we lunched was that we lunched

"The piano and the dining room chairs," he began.

hina.

"A bronze head on a large pedestal,
and a small Dutch silver tray. I am
afraid that is all," he concluded.
Sabina and I looked at each other. Sabina and I looked at each other. Everything that Anna Stuyvesant had lent us was safe, and nothing else in the world!

"Have they any idea how it could have begun?" inquired Sabina calm-

which her friends are accustomed! "I'm afraid there is a great deal in that," Sabina began gravely. "I have always feared—" But she never But she never

'Sabina," I cried, "where is Chloe?

We dropped our teacups and stared guiltily at one another. It was too unbelievable.

unbelievable.

"I—I tought she was with you, of course," said Mr. Orden, half rising, and looking at Sabina and Mr. Van Ness, When I left her to get that —when for some one to bring the piano out, and after that I—I lost track of her; she wouldn't stay where "he looked at me, and I wondered hat I would ever have supposed that I would ever have supp that I would ever have supposed that there was anyone else for him—"when it occurred to me that you might really be in that—that—" He paused, and swallowed hard

'And afterwards when you fainted, I ran for some brandy,' he went on, "and when I got back you were gone." A man there said that a lady

A man there said that a lady and gentleman came and got you in a carriage, and I supposed it was she, of course." He scowled at Mr. Van Ness, who cleared his throat and pushed away his chair.

"And I supposed she was with you—"And I supposed she was with an accurating glance at Mr. Ogden. I ended to the firement and they assumed that you and she had been supposed to the firement of the second to the firement and they assumed that you and she had been most active in saving what could be got out I took it for granted that she was safe with you, when Miss Archbold and I hurried away with this poor lady."

"Sabina and I said nothing, but I "Sabina and I said nothing, but I

"Sabina and I said nothing, but I am sure our thoughts were dreadfully alike. There was no disguising it; we had both of us completely forgotten Chloe.

The two men started to ether the door without a word from either of us. But before they reached it a of us. But before the soft thumping shook it.

were with the other," said Mr. Van Ness frankly. Chloe's eyes rested for a moment

on his. "Ah!" she murmured. And that

was all.
"I should love some tea, Mamie's aunt," she said a moment later. "I should love some tea, maintes aunt," she said a moment later, "Wasn't it thrilling? I saved these myself—they are Satterlee Stuyves-ant's old English salt cellars! I supant's old English sait centars: I sup-pose you know there's practically nothing else? We've none of us a ray. You ought to braid your hair all the time; doesn't he think so?" Mamie's aunt got her dry, and we hustled now her the

bustled over her tele,
"Wasn't it great luck about the in
surance, though?" she mumbled
with her mouth full of toast. mumbled

with ner mouth full of toast.
Sabina and I stared at each other.
"I believe you had forgotten!" she cried. "Dear, dear, it takes a thrifty spinster like me to remember—and you had other things to think of, evidently!"

A loud jarring sound grew every moment louder, and culminated at our door.

our door.

"It's the Panhard." said Chloe, starting up. "Anna telephoned she'd sent it. We'll come over in the morning—I'm dead for some sleep. Satter-lee did hope those chairs had burned, he said!"

She was at the door before we knew it. "Good-bye, my dears—and bless you!"

"But, Chloe," I began, "won't you

She flew across the room and kissed

th tr

of it bu se th

an

is fri wh

are see

"A

r. My

She new across the room and kissed me.

"To-morrow!" she "ersisted. "To-morrow! I'm—I'm so tired, dears both! Give me a night's rest, and I'll dance at the wedding—to-morrow!":

She was gone. We heard the great are back slowly around and snort

off.
"A most attractive girl," said Mr.
Van Ness, thoughtfully. "Such tremendous vitality.
a little excitable, though. Had we
not better start, my—Miss Archbold?"
They went out and the rumble of

not better start, my—Miss Archoold:
They went out and the rumble of
the cart died away.
"I suppose you couldn't wear it in
braids like that, could you?" said Mr.

I looked hastily at the bearons (after it had happened) to see if Mamie's aunt was coming out, and there on the threshold I saw a I looked hastily at the bedroom door

Mamie's aunt was coming out, and there on the threshold I saw a scorched black account book. "See what you saved!" I cried. It was that I had clutched, all through the smoke and down the ladder, and in the high cart! I need not tell you what he said.

I need not tell you what he said, because I cannot pretend that this is any longer a Character Study.

any longer a Character Study.

Mamie's aunt put me to bed.

I'il be nice for you, miss, in goin'
to housekeepin', to have that fine
Swede girl, I'm thinkin', "she said;
'you'll not have to raise your hand."
I looked at my hand thoughtfully:
I was not Maria's fault that I could
raise it at that moment! And yet
cord I have summoned the strength
of character to dismiss her? I am
glad I did not have to try—she was so
good!

The End. The Upward Look

Friends with Christ

But, I have called you friends.-John 15, 15 John 15, 15.

There are some people who read the story of the Bible as a bit of ancient history. They often wish that they had lived in the times in which the Lord was here upon earth. The would then have been able to have been friends with Christ. They always look at Christ being a friend to men. as r thing of the past, never as men, as r thing of the past, never as a thing of the present.

Your own subscription to Farm and Dairy renewed free for six months, if you send us one new subscription for

one year at \$1.00. For two new yearly subscriptions at \$1.00 each, we will renew your own subscription free for one year.

I longed for the floor to open and

swallow me up.
"Sabina," I stammered, "I shall have to tell you—it was Maria. She did smoke!"

They looked hard at me, and sud-

They looked hard at the, and addedly they all began to laugh.
"The firemen swore it began in the attic, and I faced them up and down it didn't," said Mr. Ogden finally,

it didn't," sa'd Mr. Ogden nnahy, when they had finished. "-In bed," I went on sadly, "and I knew it. And she must have fallen asleep. Oh, where is Maria? Was

she...'
"She was not," said Mr. O'den, suddenly grave. "She is alive, thouch she doesn't deserve to be, for she told me there was no one left upstairs when I helped her out. He looked at me and his mouth twitched. "She asked me for a dollar and headed for the station," he continued with an effort at lightness, "and I doubt if you see Maria again—in view of the facts!"
"Sahian." I cried expirately. "She

"Sabina," I cried penitently, "all your lovely books! And I engaged her! Oh, I will never trust my judg-

ment again!"
"I should think not," said Mr. Og-

"I should think not," said Mr. Os-den—but his eyes were kind, and oh, I was sure I was not too old I—"sour judgment, indeed! Do you know," and he smiled on us all delightedly, "she pretends to have supposed that I was going to marry Miss Chloe! As if," with an au taicous, confidential air, "I could dream of supporting that betiliant young thing in the style to brilliant young thing in the style to "Mamie's aunt! O Mamie's aunt!" some one called. We listened breathlessly.

"Oh, may I come in, Mamie's aunt?" The voice was half laughing, half appealing.

nair appearing.
"I can't remember your name.
Mamie's aunt, I'm so excited, but I
knew you'd let me in, and I am too
wet to come unless you tell me I may,
and my hands are full!"

and my hands are rull!"

The door pushed open slowly, and Chlos stumbled into the room, her skirrs kilted to her knees, her shoes and stockings drenched, her lap full of some small clattering objects. She paused, and her bright questioning eyes moved quickly from one to the other of our little group.

Is suppose my nerves were not quite steady yet, for at the thumping on the door, I had stepped hastily over to Mr. Ogden; Mr. Van Ness stod behind Sabina's chair with one hand

on it.

What passed through the girl's mind I do not know. Sometimes I think I saw more in her darting eyes than I like to remember; again I am than was only excitement and

than I like to sure there was only excitement and sure there was only excitement and relief at finding us.

"A meeting of the survivors!" she Cried. "Are we all sare and—happy!"
Sabina moved towards her. "My
dear, dear child," 'she said eagrely,
"what must you think of us? We
thought—they supposed—"
"Ogden and I each thought you

We all believe that Christ was the friendliest man that ever lived, not was, but is, and always with man's best friend. The most worman thing to-day in the world, if we only realize it in its fullest meaning, is the friendship of Christ for men. All men, be they simful or be they in a degree perfected. We sometimes say, Irienanip or Critist for men. An immen, be they sinful or be they in a degree perfected. We sometimes say, "if we could only see the Christ, we would be better able to take him as friend and trust in Him." Our human friendships are sometimes a matter of faith, not sight, yet we put implicit trust in those we call friends on this earth. The things we trust in our friends are honor, truth, faith-fulness, thoughtfulness and gentle-fulness, thoughtfulness and gentle-fulness. These are all elements of faith, and for the full control of the full

Can we not believe in the friendship of Christ and trust on Him if we do not see these petty qualities manifest in the way we think we see them in our worldly friends? Can we not love Him whom we have not seen? We may believe and realize the friendship

may believe and realize the friendship of Christ just as much as did Peter, Mary, Martha and many others, if we only will. The friendship of Christ will mike every one of us noble, strong and better to help others to become friends of Christ it is our duty try and bring others to Him, and try and try and bring others to Him, and try and the Him, and th Through them to the benefit and good glory in us for the benefit and good of others, it may be. At any events, it is for our own good, we should build a stronger character for ourselves, that we may all the better throw some of the goodness and light from above, to others around us.

from above, to others around us.

Christ is a friend for all our moods and experiences. We need Him at all times, and He is ever ready and willing to be friends with us at all times. ing to be friends with us at all times. He is a friend to us, whether we are in immediate need of lime or not. He is our friend at all time or not. He is our friend at all time to the time of the lime of the li

"A friend in need," my neighbor said to

me,
'A friend, indeed, is what I mean to be;
in time of trouble I will come to you,
and in the hour of need you'll find me "I thought a bit, and took him by the

hand: friend," said I, "You do not under-stand

The inner meaning of that simple rhyme, A friend is what my heart needs all the



"New Century" Washing Machine

Will be the state of the state

il Mig. Co. Limited, Hamilton, Ont,

To Have the First Flowers

To Have the First Flowers

The popular seeds to sow are aster, rinnia, verbena, phlox, cosmos, marquerite, pansy, single dahiia, balsam, begonia and petunia. Shallow boxes, two by two and one-half inches deep—cigar boxes—will be just the right size. Fill half full of light, rich soil, with the properties of the size of the size

lants in the ground is the right time
of sow many different seeds.
A good place to set these boxes
could be in strany kitchen windows. weuld be 'n strny kitchen windows. Shade the glass with a couple of layers of brown tissue paper, remorping it at night. If the seeds are very fined like those of tuberoses, begonist the done distribution of the couple of the Shade the glass with a couple of lay

PLANTING SEEDS

PLANTING SEEDS

The planting of these fine seeds cannot be done too carefully if we would save ourselves the trouble of replanting them. If these seeds are more than barely covered with soil the will be a seed to be a seed to

of seeds sown in the open ground could be large enough to flower, thus ensuring a lovely garden of bloom all summer long

summer long.

The laggards, too, that require a long season to reach blooming size, may be forwarded in this way. Perennials may be coaxed in this manner to yield flowers the first year.

HOT BEDS

If you have hotbeds or cold frames, If you have hotbeds or cold frames, so much the better, as you may then avoid the clutter of an unsightly are ray of boxes in the window. Small cold-frames will do for seed planting. Place in a sunny, sheltered nook, and cover with a window sash. For the hotbed, bottom heat is provided by the first of the hotbed, bottom heat is provided by the first of the hotbed, bottom heat is provided by the first and the first of the hotbed, bettom heat is provided by the first of set in place, then the proper soil placed in and the seed planting done according to the window-box rules given.

CARE OF SEEDLINGS Care must be given to the seed-lings every day to give them air oc-casionally, especially in the middle of warm sunny days when the glass top more than barely covered with soil warm sunny days when the glass top they will not germinate.

The idea of this early seed sowing an hour or so, and do not forget to is not to start too many plants of one kind, but a variety of early flowers given, as dryness of soil surely spells in the garden before the same kind failure.

Every Home May Have A



YOU want a piano. You

YOU want a piano. You chink the children should learn to play. And yet —you hesiate to put out so much money all at once.

We will make it very, very will be the should be shou

Write us. We will send you free of charge, richly illustrated booklets on the New Scale Williams Plano—and also explain our Easy Purchase Plan. Cut out the coupon and mail it to us today.

The Williams Pinno Co. Limited, OSHAWA,

The "Favorite"

is the Churn for a Woman



The "Pavorite" can be operated by band or foot, or both - while you are sitting in a chair. Rasier than a sewing machine. Steel roller bearings and other improvements make it the ideal churn for farm and dairy. 8 sizes, to churn from 1/2 to 30 gallons of cream.

"Puritan" Reacting Washing Machine Improved Roller Gear

covered - are only two of its many improvementa. Beau-tifully finished in Oak, Royal tifully finished in Oak, koysi sine or Wise Color, and Silver Aluminum. Write for booklet about these universal favorites, if ur denier does not



DAVID MAXWELL & SONS St. Mary's One.



You can wash the finest laces, lingeric and andkerchiefs without breaking or injuring a ngle thread if you use a

"1900 GRAVITY" WASHER

because this machine works on the opposite principle of the washboard. The clothes remain stationary while the water is switched and pressed through them by the wairling and up-and-down motion of the tub.

Absolutely no rubbing, pulling, wearing or tearing; everything done simply by agitation of the water.

You can't afford to be without the "1900 Gravity" Washer: It will clean clothes quicker and more easily than any other machine, and make them last twice as long.

OUR FREE TRIAL OFFER DON'T MISS IT

We are the only people on this continent that make nothing but washing machines, and that are willing to send a Washer on

ONE MONTH'S TRIAL FREE One MONTH'S TRIAL FREE to any responsible party - without any advance payment or deposit whatsoever. We ship it free anywhere and pay all the freight ourselves. You wash with it for a month of the ship wash with the ship of the ship o

Write to fairer
Write to-day for our handsome booklet with hair
illustrations showing the methods of washing in
erent countries of the world and our own machine
satural colors—sent free on request. OK FOR THIS LABEL ON THE TUB.



Address me personally. F.D.F. BACH Manage The 1900 Washer Co., 355 Yenge St., Toronto, Can.

12008

It is desirable to mention the name of this publication when writing to advertisers

spite of a low temperature that in this

province sometimes touches 40 de-

No cultivation has been given thes

An easy method of starting cut-An easy method of starting cuttings from our winter plants is to plant them indoors a few weeks before the weather is mild enough to place them outdoors. Fill a soup plate with clean, sharp sand. The sand must be absolutely clean and free from foreign substances that would injure the tender little shoots. Put in the slips close together around the edge of their plate, slanting them in with one eye under the sand, and at least one eye above. Water until the water rises to the surface and place on the winto the surface and place on the win-dow-sill in the sunshine. The sand must be kept constantly wet to in-sure success, for if allowed to dry in the least, the cuttings will wilt and

To Wash Blankets

Select a clear windy day. Dissolve one pound of white soap in a quart of water, and to this add two could not solve and the solv

soap in the last. Wring, using a soap in the last. Wring, using a soary wringer, if possible. Hang as nearly single as you can and when dry fold in a sheet and put under a weight. Have all the water used of the same temperature. If the water is very content with bornax dissolved in heat the tablespoonfuls to each tub a water. Elizabeth Underwood, Peel Co., Ont.

The Right Kind of Pride

Youth is the time for pleasure, but Youth is the time for pleasure, but also for training, for work for self-discipline. True pleasure needn't be expensive and a young man should never be ashamed to come man should never be ashamed to earn his more all things should he earn his more all things should he earn his more than the should he will be should have been also been also be should have been also been also be should have been also be

The White Spruce

Annie L. Jack, Chateauguay Co., Que.

On the banks of the St. Lawrence in the Province of Quebec, ar some The specimens of nature spru:s trees giants, Cattle range beside them in (Picca alba) and in a pasture field the old pasture and, in that way, the those shown in the il.

those shown in the il-lustration are growing. Not far away the Iro-quois Indians have a large reservation, and from it have cut every worthy tree for fire-word, leaving, only tree leaving only tangled was wood. rough brushwood where was once a magnificent forest. Sometimes in win-ter they still stray into the woods woods of neighbors white cut down trees for the sake of a part of the wood they require for axe handles, or other merchantable goods not be found now their own land. But in the quiet pasture, not far from a farm house, these fine white spruce trees have escaped des truction, and form a prominent and pleasing feature of the land-scape at all seasons, but more noticeable when the decideors deciduous

The foliage is beautiful and on large

The foliage is beautiful and on large grounds and parks the spruce is very ornamental, being of great value where hardiness is one of the land is kept fertilized, and they show chief requirements. Rising over a no sign of age. During the late spring hundred feet in the air these everstorms, the spruces are verified hives greens reveal to us the possibilities of for the birds, giving protection and our native trees, teaching us a lesson shelter from untimely blast and beds at ability and persistent growth, in lated snowstorm.



grees below zero.

If You Hear A Woman Complain

that her work is so hard and that washing and cleaning is never finished-that clothes go to pieces so quickly, and even after the dishes and tinware are washed they look dull and greasy

IT IS A SURE SIGN SHE NEVER USED



because Wyandotte Cleaner and Cleanser makes the work very much easier but cannot injure anything, for it contains no acids or harmful chemicals. The dishes and tins shine because they are made clean and not because they are left greasy. Wyandotte Cleaner and Cleanser contains no greasy soap or soap powder.

If all this seems too good to be true just get a sack from your dealer and try it entirely at our risk. It will not cost you one cent unless it is perfectly satisfactory.

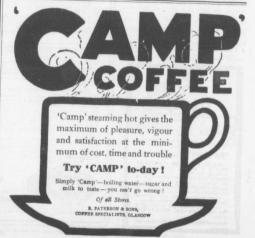
THE J. B. FORD COMPANY, Sole WYANDOTTE, MICH., U.S.A.

This Cleaner has been awarded the highest prize wherever exhibited

The New Country Woman

To many people it will be surprising news to hear that there really is a finew woman in the country, as well as in cliffs. For a number of years we have been reading of the exploits of the new woman in town, but nothing about her country sister. Actually, there are men and women, people who call themselves intelligent, who know more about the country. Conditions have changed wonderfully during the past twenty or thirty wears everywhere, but particularly in the country in touch with the cities, rural labor, telephon life in the country as one wild the average town dweller looks appon life in the country as one wild lite box at the gate of the farmer daily, fine 'piks have made it possible to

The average town dweller looks and happenings of the hour to the lit spon life in the country as one wild the box at the gate of the farmer daily waste without a fertile spot to redeem fine 'pikes have made it possible to



get about from place to place with ease and rapidity, and the steam and cleetric cars are assisting as well. Our people with good comfortable and cosy people with good comfortable and cosy of mun was comped and uncomfortable "city people."

THE COOK'S CORNER

THE COOK'S CORNER
Send in your favorite recipes, for publication in this column. Inquiries will be relied to stage are added to the work of the work o A non autor, time paper Reseaseseseseseseseseseseseses

YORKSHIRE PARKIN

To 1 lb. oatmeal add 2 cups molasses, I cup brown sugar, & cup but the corning, then and spice with the oatmeal, and with add spice with the oatmeal, and with add spice with the oatmeal, and with add spice with the oatmeal, and with a bongers rub in the short-ning, then bongers rub in the short-ning, then in the molasses. Mix all well together the molasses. Mix all well together thick. Bake in a slow oven 1½ hours and shallow tin, about 2 to sapons baking powder sifted with do not turn out of the time until quite cold, or it will break. While hot cold, or it will break. While hot cold, or it will break. While hot it ercross into squares, so that it can be easily handled. Rell ½ inch tick, sprinkle with clinnamon and roll the dough up same as for jelly eake. Then allee off pieces from this days before eating, as by that time

it will have become quite soft. The county of Yorkshire is celebrated for its good things for the table, and this is certainly one of them. It is an economical and wholesome cake for children.—I. A. G., Man.

WALNUT WAFERS

WALNUT WAFERS
Beat 2 eggs very light, add ½ cup
flour sitted with ½ teaspoon baking
powder and a little salt, ½ cup walnut meats, and enough more flour to
make a very stiff batter. Drop by
spoonsful on buttered tins, not too
close, and bake in a quick oven.

CHILDREN'S SPONGE COOKIES

OHILDREN'S SPONGE COOKIES

Into a mixing bowl put 1½ cups
flour sitted with 2 teaspoons baking
powder, a little salt, and 1 cup sugar.

Break 2 eggs into a cup, fill the cup
with cream, stir this into the flour
and sugar, and beat hard about 5
minutes. Bake about 10 minutes in
muffin pana.

granulated sugar over the slices, dot with butter, and bake in a moderate

TOMATO SAUCE

Cook 1 qt. canned tomatoes with some salt and 1 small sliced onion for 10 minutes. Brown 2 tablespoons flour in 2 tablespoons butter and add this to the tomato mixture and cook this to the tomato mixture and cook 10 minutes more. Season with salt and pepper and a pinch of cloves, and rub through a strainer. This is fine to serve with fish, meat and macaroni.

...

The flour barrel should have a tiny platform made of plank and set upon castors that any child can wheel out of the way while she sweeps and scrubs under and behind it. ...

Nature Study

Nature Study
We will send a beautifully illustrated set of Nature Study post cards, 50 cards in each set, absolutely free, for only one new subscription to Farm and Dairy, at \$1 a year. These cards give you the names of birds, flowers, and some fruits, and are true to nature in every respect. Address, Circulation Department, Farm and Dairy. Feterbore, Ont. Dairy, Peterboro, Ont.

Renew Your Subscription Now.

Talks with Mothers Keesessssssssssssss

Do not Rock Your Child

The child is yet to be found who The child is yet to be found who is either happier or better for having been rocked to sleep. On the other hand we have many instances on record of increased nervousness and irritability in babies as a result of the habit. By it the mother loses

infant.

If this rule is carried out from birth, there will be no clash of wille; but if the too indulgent mother one stays beside her baby, or lifts him from his crib once he is put there for the night, he will demand the

FOR SPRING AND SUMMER

nor 2/08 Li quite Safe and in very pleased with n to my friends

Faithfully yours.

Would You

Save Money?

And Be Pleased With Your Purchases

Write For this Cataloque To-Day

Why not consult the Cata-· logue every time you want to buy an article?

Buy from this Gatalogue as you would from a storeyou'll be better satisfied, is the testimony of thousands.

Some of our customers have saved a nice bank account buying from us by Mail. . .

T. EATON COMITED TORONTO CANADA

It's good business ability to buy the best at the lowest price.



"Black Knight" Stove Polish

does away with all the dirty work of keeping stoves clean, Nomixing-no hard rubbing. "Black Knight" is always ready to use—shines quick as a wink—and puts on a bright, black polish that delights every woman's heart. Equally good for Stoves, Pipes, Grates and Ironwork.

If you can't get "Black Knight" in your neighborhood, send name of dvaler and 10c for full sized can.

The F. F. DALLEY CO. LIMITED. HAMILTON, On?

same attention every evening. Three nights of discipline are sufficient to teach baby the lesson of all lessons most important for him to take to heart, namely, that he must turn that he should never, even if ill, before the coddinate of the control of the coddinate of the codd they want a rest or change of position

. . .

Have you forgotten to renew y subscription to Farm and Dairy?



POSITIVELY CURED

With our scientific treatments, specially prepared for each individual case, we have a second proper property of the second property of t

HISCOTT DERMATOLOGICAL INSTITUTE

63 COLLEGE STREET, TORONTO Established 1892.

More bread and Better bread -And the Reason for it

A STRONG FLOUR can only be made from strong wheat. Manitoba hard wheat is acknowledged the strongest in the worldand that is the kind used for Purity Flour.

But that's not all. Every grain of this wheat contains both highgrade and low-grade properties. In separating the high-grade parts from the low-grade the Western Canada Flour Mills put the hard wheat through a process so exacting that not a single low-grade part has the remotest chance of getting in with the high-grade.

Of course this special process is more expensive to operate but it means a lot to Purity flour usersthat's why we use it.

It means that Purity Flour is made entirely of the highest-grade flour parts of the strongest wheat in the world.

It means a high-class, strong flour and therefore yields "more bread and better bread."

Purity may cost a little more than some flours, but results prove it the cheapest and most econom-



WESTERN CANADA FLOUR MILLS COMPANY, LIMITED MILLS AT WINNIPEG, GODERICH, BRANDON

Care of the Cellar

Cleaning up a dark, dirty, dingy cel-lar and transforming it into a light, airy laundry, work and storeroom is a simple process and a matter of very mall investment, either in labor, material or money. Neither does it require the services of an architect

cequire the services of an architect or the presence of a carpenter. The day has gone by when the damp and dungeon-like cellar can pass the naspection of even the most amateur tousekeeper, who is fully conscious of the fact that darkness, dampness and linginess are the abomination of

annation.

Frequently the housekeeper is concious of the lack of light, lack of light, very lack of cleanliness and lack for ventilation, but alas! there is a cack of money to remedy the deploraconditions.

Fortunately, conditions can be vendied with very little expense. While it is true that money will produce a serfectly sanitary cellular consistence of mirror brains plus several degree of mitiative to maintain this desirable condition. The dingiest and mustiest cellur can easily be made into a sanitary and livable room at a very small expense. Fortunately, conditions can be

Sypense.

There is an old saying that "a known me cannot drive the dark out of a room, but a child can draw the curtain sad and let the daylight in." So with cellars—any one can admit the daylight air and abolish

. . . To Dye Rusty Feathers

Black plumes that have become rusty may be restored by using ivory

Black plumes that have become rusty may be restored by using ivory black in benzine; feathers dyed in this way do not come out of curl. Have no light near, even in the next room, when using the benzine.

The plume may be shaded by dipping first in a weak solution of the color and shaking until partly dry; then dip again about three-quarters the length of the feather; take out pagin how the property of the color and shaking and the color. For the find shake as before. For the find shake as the tip a little more should be added to the benzine to make it quite a little deeper. The reason for dipping when only partly dry is that the shading will blend, and not look as though done in sections. Keep the benzine away from the fire and liehted matches. It is very combustible.

. . . Easy Washing

Easy Washing

A book that tells how to escape the drudgery of wash day. It's just a little book—but one of those books with a message. It tells of a new and better way of doing the weekly washing. More tempers have been ruined, more complexions spoiled, more injury has worked to be health of womankind by the old to be health of womankind by the old women of Canada expendency of the washing than by any other kind of home work of the washing with the work of the work of the work of the washing week to move the machinery in a thousand mills and factories. Now, at thousand mills and factories. Now, at thousand mills and factories. Now, at thousand mills and factories will keep to the work of the w

little book above mentioned tells about them. A copy will be sent free on sending address to F. D. F. Bach Manager, 1900 Washer Company, 357 Yonge St., Toronto, Ont.

...

A good preparation to soften and whiten the hands is made by mixing together one oz glycerin, half or the fore ak, 58, 40 and lemon juice, and two ozs rose water. It cents

The Sewing Room

Patterns 10 each. Order by number and size. If for children, give ago; for shall, give bus measure for shring. The shall orders all orders of the Pattern Department. The Sewing Room

EMPIRE HOUSE JACKET 6146



Every woman likes o own a pretty and to own a pretty and attractive negligee. This one is just as pretty as can be yet is so simple that it can be made without the least bit of trouble. The sleeves and the deep release as the deep yoke, or body portions are cut in one and there is really no fit what-

is really no fit what-over required.

Material required for medium size is 4½ yds 24, 3½ yds 32, or 2½ yds 44 in wide, with % yd of silk for trimming bands and 4 yds of ribbon for sash

The pattern is cut for a 34, 36, 38, 40 and 42 in bust and will be mailed on receipt of 10 cents.

CHILD'S FRENCH DRESS 6145



French dresses are always pretty for the little children, and this season they are being made of great many materials. This one can worn over any be worn over any guimpe and is adapted both to the wool materials for cold materials for cold weather and also to the washable ones. Material required for medium size (6 yrs) is 3% yds 24, 3% yds 22 or 2½ yds 44 in wide, 2 yds of edging.

ing.

The pattern is cut for girls of 4, 6, and 8 yrs of age and will be mailed to any adbe dress on receipt of

BLOUSE WAIST 6147



No matter what the season of the year the blouse waist is always in de-mand, and no matter how many one may have in stock, the latest style always finds its place. Here is a pretty one that can be treated in so many ways as to be available for a great many different Material required

(

TWO

BAR

EGGS Sin 13.for por Eas

Material required for medium size in 63% yds 18, 3% yds 28, 20% yds 32, 1% yds 42, 1% yds 32, 1% yds 44 in wide.

The pattern is cut for a 22, 24, 26, 38 and in bust and will be mailed on receipt 10 cents.

HALF FITTING COAT 6149



The coat that is suggestive of the short waist effect, without being in the least exaggerated is the one which suits a great many fig-ures. It is a simple

a great many fig-ures. It is a simple coat, however, and can be made with skirt to match.

Material required for medium size is 7 yds 21 or 24, or 27, yds 52 in wide for the length illustrat ed; 6%, yds 21 or 24, 2% yds 44 or 2%, yds 52 in wide for the shorter length, % yd of velvet.

shorter length, 72 years of velvet.

The pattern is cut for a 34, 36, 39, 40 and

It is desirable to mention the name of this publication when writing to adverti

MARKET REVIEW AND FORECAST

Toronto, Monday, March 1st, 1999—Ass arrival supervised demand for heading and the market sarrival supervised demand for heading hardy is sarrival supervised and the sarrival supervised and the sarrival supervised and the sarrival supervised and the sarrival sarri

ported. Discounts rule steady at 6 to 7 per cent., as to the nature of the account. WHEAT

There has been a general advance in what prices during the week, and the wheat prices during the week, and the wheat prices during the week, and the wheat has been a general advance in what prices during the price than for sweet ending at a high-er price than for sweet market, and it for the present of the price of

COARSE GRAINS

The oat market continues firm at slightly higher prices. Ontario oats are quoted at Montreal at 47% to 9% or a bush. Oats are firm here at 45% to 9ff outside and 49% to 50% a bush on the Tor-onto farmers' market. There is an im-

GET A FREE COPY

Write for a free copy of our New Catalogue of Dairy and Farm Books. A post card will bring it. Address—

Book Depa RURAL PUBLISHING CO., LIMITED Ontario

FOR SALE AND WANT ADVERTISING TWO CENTS A WORD, CASH WITH ORDER

WHITE WYANDOTTES.—Eggs, Pullets and Cockerels for sale from the noted win-ning strain of H. Lush. Will make win-ners.—Robert Maitland, Fowlers Corners,

BARRED PLYMOUTH ROCKS exclusively. At Toronto Industrial and Western Fair, London, my females won more firsts than all other exhibitors combined than all other exhibitors combined. Let me know for sale; ergs in season. Let me know for sale; Leslie Kerns, Freeman. Ogt.

EGGS.—High-class Rose Comb Brown and Single Comb White Leghorns; \$1.50 per 13.—J. H. Rutherford, Caledon East, Ont.

ROUEN DUCK EGGS at \$1 for six, or \$2 for 13. These ducks are bred from imported eggs.—J. H. Rutherford, Caledon East, Ont.

DO YOU WANT farm help of any kind? An advertisement in this column will get it for you. Try it.

Mill feeds are scarce, especially bran, and prices are advancing. Millers are said to be used at Montreal Manitobara is a sea and shorts at \$24, and Ontario bran is at \$24 and shorts at \$24, and Ontario bran is at \$24.5 to \$25 at 0.6 in begs. Dealers here quote Ontario bran is bars. Dealers here quote Ontario bran is bars. Sea and shorts at \$24.5 to \$25 at 0.6 in bags. Sea and shorts at \$24.5 to \$25 at 0.6 in bags. Sea and shorts at \$24.5 to \$25 at 0.6 in bags. Sea and shorts at \$24.5 to \$25 at 0.6 in bags. Sea and shorts at \$25.5 to \$25 at 0.6 in bags. Sea and \$25.5 to \$25 at 0.6 in bags. Sea and \$25.5 to \$25 at 0.6 in bags. Sea \$25.5 to \$25.

There have been graper receipts during the week, and a large receipts during the week, and a large process of least of the reported though quotations are prices of clean seed, choice and fancy, at prices of clean seed, choice and fancy, at \$1.5 to \$2.3 for aiskie, \$5.50 to \$6 for \$6.75 to \$2.3 for aiskie, \$5.50 to \$6.5 for \$1.50 to \$8.50 for failait, and \$1.50 to \$2.0 for \$1.50 to \$2.50 for \$1.50 to \$1.50 for \$1.50 to \$1.50 for \$1.50 to \$1.50 for \$1.50 to \$1.50 for thindly, and \$1.50 to \$2.10 for timethy, as to quality.

HAY AND STRAW

A firmer feeling is being reported at Montreal, where, owing to the had roads, receiping have not been so heavy. This has enabled have not so that the second had been so he had

POTATOES AND BEANS

POTATOES AND BEANS
There is no change in the potato market. The supply seems sufficient to keep
prices steady. Quebees are quoted at Montreal at 50 600 ab as jin car lot 8.00trains are quoted here at 600 to 650 in
car lots ango an Toronto
The bean market rules quiet but firm.
The bean market rules quiet but firm.

larmers' market.

The bean market rules quiet but firm. Bealers are not inclined to pay the price shippers are saking. Western Ontario shippers are saking. Western Ontario shippers are large to the price of the saking the saking and the saking the sakin

EGGS AND POULTRY

EGGS AND POULTRY
Receipts of new laid eggs continue to
increase and as we need the near the
spring season when are petting near the
spring season when are petting near the
spring season when are petting near the
spring is a period of the season of the
spring is a period of the season of the
spring is a period of the
spring is a

a dor.

The poultry trade is quiet owing to light
receipts and better business doing. Prices
keep firm, however business doing. Prices
keep firm, however did dealers quote in a
Jobbing way, ide to
or tile to to tile for for turkeys. On Toronto farmers' al. b. for turkeys. On Toronto farmers' al. b. for turkeys. On Toronto farmers' al. tile
to ite, and turkeys at 25c to 25c a lb.
to ite, and turkeys at 25c to 25c a lb.

DAIRY PRODUCTS

DAIRY PRODUCTS

The cheese market is firm on light stocks with a quiet trade reported. Prices are steadily advancing. Finest western are steadily advancing. Finest western are quoted at Montreal at 155 to 135c and 155 to 155c and 155c and

INCORPORATED 1886

RADERS BAN

Capital and Surplus \$6,350,000

of Canada

Assets \$34,000,000

Now is the time to open a Savings Account. Make a good beginning, add to it as the proceeds of the year's work come in, and you will have a comfortable reserve, ready for likely-looking investments or unexpected expenses. \$1 opens an account.

THE BANK FOR THE PEOPLE

One of the 80 Branches of this Bank is convenient to you. Your account is invited.

prints; 19c to 20c for ordinary, and 19c prints; 190 to 200 for ordinary, and 190 to 200 a tub for tubs and large rolls. On Toronto farmers' market dairy prints sell at 250 to 27c and solids at 22c to 25c a lb.

UNION STOCK YARDS HORSE EXCHANGE

The horse market continues active and considerable business is reported during the considerable business is reported during the state of the considerable business is reported for the two for the considerable business and the considerable business The horse market continues a

LIVE STOCK

Lipt receipts have ruled at the live stock markets all week and trade has been brisk with prices firm. Trade, however, was not as good as might have been extended to the stock fards on Monday caused drovers to hook fards on Monday caused drovers to hook fards on Monday caused drovers to hook fards on Monday caused drovers to the farm of the week. There were not as many off the week. There were not as many of the week there were not as many to the farm of the

market, during he week and prices were kept down to about steady.

The export market and as strong as it was a few weeks and outerwers have a market the strong and a market was a few weeks as on the market some of the best cattle seen on the market some of the best cattle seen on the market some of the best cattle seen on the market was a few and though there were on the best cattle seen on the market was brisker and things pointed market was the prices, and prices were point by John Cameron, Fergus, and weighted 1440 each. The general run control that sold at \$4.55 to \$5.55; loads of good On Thursday prime lost of butchers cattle sold at \$4.55 to \$4.55; medium, \$4 to \$4.40; counts and to the services and ext.

to \$5.29 and butchers' bulls at \$3 to \$4 a cwt.

Receipts of feeders and stockers have ruled light during the week. The best feeders and the stockers for the state of the sta

Donn.

The market for veal calves is strong with prices a little higher. On Thursday calves sold a \$3 to \$7 a cwt, the latter figure being paid for choice veals. Veals are quoted at Buffalo at \$7 to \$11 a cwt.

Owing to light receipts the market for sheep ruled strong all week. Export ewes sold at \$4 to \$4.50 bucks at \$5.50 to \$3.75, and lambs at \$5.50 to \$6 Got the common run, while choice grain for lambs sold at \$5.50 to \$7 a cwt. The Buff on market is reported active with lambs to the strong to to \$8 and mixed sheep at \$2.50 to \$5.55 a cwt.

to \$8 and mixed sheep at \$2.50 to \$0.50 a cot.

Hogs were selling a little higher on Thursday, Selects were quoted on the mixed bern at \$6.75, fed and watered, and the highest here, at \$6.75, fed and watered, sold on the highest hight highest highest highest highest hig

UNION STOCK YARDS PRICES

THE HOG SITUATION

THE HOG SITUATION

Danish killings last week totalled 5,000. The bacon market is reported better. The bacon market is reported better. The bacon is selling with conditions reports and the packing house selling with conditions to the packing house in the packing house last week was at three packing house last week was at three packing house last week was an and the packing house last week was house and the packing house last week was an and the packing house last week was house and the packing house last week was an and the packing house last week was house and house house

MONTREAL HOG MARKET

MONTREAL HOG MARKET
Montreal, Saturday, Peb. 2Th—The local
market for live hogs has remained stendy
all through the week at the prices reachall through the week and this week's offerings,
which was been allowed to the property of the conreadily picked parametery light, were
for selected lots weighed out.
There is a fairly good trade doing in
dreamed hogs, and sales of fresh killed
dreamed hogs, and sales of fresh killed
strong the control of the control of the constrong the control of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control
at 810.50 and sales of the control of the control of the control of the control
at 810.50 and sales of the control of the control of the control
at 810.50 and sales of the control of

ABSORBINE

Cures Strained Puffy Ankles, Lymphanett Full Evil, Flistials, Seres, Wire Cuts, Brai Full quickly wis, Lameness, and Alla Full quickly wis, Lameness, and Alla the hair, or laying the horse up. 7. Novil the hair, or laying the horse wis and layer of the per builting at dealers or of Alls ORLIVER, Outs, Cunstitud Stophen (ADD Statuna, Gould, Varicosa Veins, Ve W. F. YOUNG, P.D.F., 123 Monmouth St., Sprin LYMAN, SONS & CO., Kontreal, Constitution

PETERBORO HOG MARKET

Peterboro, March 1, 1999.—Deliveries of hogs on the local market last week were light, the lightest in the last 12 months. The demand for bacon in England is poor, Danish deliveries on English markets last

SWINE

YORKSHIRES

Apply Manager, FAIRVIEW FARM 0-9-1-09 LUMSDEN'S MILLS, QUE.





For Sale are my winners at the late Winter Fair, Guelph. Sows bred and ready to breed; boars fit for service, Younger ones of service, Younger ones of service, Younger ones of service, Tourger ones

Georgetown, G.T.R., Milton, C.P.R., Halton Co. 0-6-9-09 W. W. BROWNRIDGE, Ashgrove

HOLSTEINS

FOR SALE

Holstein bull, two years old, dam gave of bs. of milk a day testing 3.6 per cent. at. Bull calf, dam gave 63 bs., testing 8 per cent fat in Record of Performance

SAMUEL LEMON, Lynden, Ont.

BERTRAM HOSKIN Mount Pleasant Farm, The Gully, Ont. Breeder of Holstein Cattle, Tamworth Swine. High-Class young stock for sale

Long Distance Phone 0-10-28-09

FOR SALE-30 HEAD of HOLSTEINS you are wanting a choice young cow erit will pay you to write me before make reselection or better come and pick them.

GORDON H. MANHARD
E-5-5-09 Manhard P.O., Leeds Co., Ont.
7 miles sorth of Brockville on C.P.R. (Clark's Crossing)

HILTON STOCK FARM R. O. MORROW & SON, Hilton, Ont. Breeders of Holsteins, Tamworths, and Cotawolds. Present offerings, 3 young bulls, boars fit for service, sows bred. Also young pigs, all choicely bred. [0111406] Telephone connection. Brighton, G. T. R.

LYNDALE HOLSTEINS



BROWN BROS, LYN, ONT.

SPRINGBROOK HOLSTEINS AND TAMWORTHS

32 Choice Young Tanworths, from imported sows and sired by imported Knowel King David. A few rich bred Holstein buils and several females. Bargains to quick buyers.

A. C. HALLMAN, Ont

SANGSTER NEIL



ORMSTOWN, QUE. Young Cows for Sale

Two Years Up. They will improve your herd Write for prices. 0-4-28-69

SUNNYDALE HOLSTEINS

y your order now for grandsons and daughters
Peterig Hengerveld & Count DeKol, champion
of the breed. His son Duchlands Sir Hengerveld
plecroft heads our herd, and is half-brother to
al lewel Hengerveld, who wish her daughter
ah Jewel Hengerveld, who with ber daughter
ah Jewel Hengerveld, who with the duplete
ah Jewel Hengerveld, who with the duplete
ah Jewel Hengerveld you want to be depended uring February
Barth, 1999.
E. 18-18-09.
E. 18-18-09.
E. 18-18-09.
E. 18-18-09.
E. 18-18-09. Brown Hree, of Lyn for St., 2000. Write for prices and record tacking calves to be droped during Pebruary and March, 1990.

A. D. FOSTER, BIOOMFRIED, DESCRIPTION OF THE STATE OF THE STATE

HOLSTEINS



Putnam Stn., 1% miles-C. P. R. E-4-8-9

week were 26,000. The George Matthews Co. quote the following prices for this week: f.o.b. country points, 86,65 a cwt.; weighed off cars, 87.25 a cwt., delivered at abattoir, 87 a cwt.

EXPORT BUTTER AND CHEESE

weighed off cars, 87.55 a cws., deliverea at abatoit, 87 a cws.

EXPORT BUTTER AND CHEESE

Montreal, saturday, Peb. 27th. — There has been a little more doing in cheese during the week, and another respectable shipment has gone out in fulfilment of the orders received leaving our total stock here still further depleted. We are get, and the still further depleted with the still further depleted. We have been largely for cheap goods in the see and also for fance colored cheese most of a straight inso of colored cheese, most of a straight inso of colored cheese and the straight inso of colored cheese, most of this class of goods will be obliged to take less money for them in order to clear beautiful to colored cheese are quoted at 12½e to 12c, with underflar are quoted at a round, 12½c, with underflar are quoted at 12½c to 12c, with very few available.

The feature of the market here this week has been the great break in the price of the colored here whith the very few available.

The colored cheese are quoted at 12½c to 12c, with underflar and soon correlation of the col a substantial quantity should be exported.

AYRSHIRES

NEIDPATH AYRSHIRES

Bull Calves dropped this spring. By imported Bull. First prize Toronto, Ottawa. and Halifax. Long distance phone -3-25-09 W. W. BALLANTYNE, Stratford, Ont.

SPRINGBROOK AYRSHIRES

are large producer of milk, testing high in butt Young stock for sale A few choice bull cale 1908 ready to ship. Prices right. Write or o e-4-1-09 W. F. Stephen, Huntingdon, Que.

Imported and home bred stock of a ages for sale. See our stock at the leading shows this fall. Write for prices,

Long distance phone.

BURNSIDE AYRSHIRES

is in such demand I will make another importation, ill attend great dispersion also used to word reword Barcheskie Herd of Mr. And. Williams of the control of the contro E-9-15-09

STONEYCROFT STOCK FARM

E 5-26-09 E. W. BJORKELAND, Manager.

We must sell at least s; cows and heifers at once, to make room for the control of the control o

ALEX. HUME & CO., Menie P.O. It is desirable to mention the name of this publication when writing to advertise

BE UP-TO-DAT

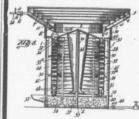
And Use The Latest Methods in Your Business



OUR NEW

CURD AGITATOR





There are many kinds of Pas-teurisers being made, but none are giving the same results as are obtained by the use of our

We Supply Complete **Outfits for Cheese**factories and Cream-

Write at once for our prices, they are surprisingly low.

THE ST. LAWRENCE DAIRY SUPPLY CO. 23 St. Peter St., MONTREAL

Consignments of Butter and Cheese solicited

negotiations have been opened up Great Britain and the United States this end in view. The market in t Britain, however, is weak, and steadwith this end in view. The market in Great Britain, however, is weak, and stead-ily declining, and there is little prospect of doing any business there at over 16e. The control of the control of the control of the state of the control of the control of the control and the control of the state of the control of the marked down again next week.

GOSSIP

HINTS TO FENCE BUYERS

HINTS TO FENCE BUYERS
There are so many fences on the market—and so many of them seem good
enough, that it is not out of place here
enough, that it is not out of place here
few things of the place here
few things of the place here
few things over and to tell you a
few things over a place of the place
few things over a place of the place
few things over and we give you the
following hints for the benefit of prospective fence buyers.

If many cases—"negrowers and wowed
is in many cases—"negrowers and wowed

Which all goes to prove that it pays to get a good fence when you do get one. It takes a good fence when you do get one. It takes, the good fence when you do get one. It takes, and the farmer whose you repair fences, and the farmer whose fencing ""The pages 14 of "PERRILESS Fencing" "The pages 14 of "PERRILESS Fencing" "The pages 14 of "PERRILESS Fencing" im amultactured by will more than pay you for your time. PERRILESS Fencing is manufactured by PERRILESS Fencing is manufactured by Manufactured by The State of the pages 14 of the page

There are so many fences on the market—and so many of them speem good enough, that it is not hem speem good enough, that it is not help to good enough, that it is not help to good enough, that it is not good enough, that it is not good enough that the green good enough the speem good enough to know before he buys, the speem good enough to know before he buys, the speem good enough to know how the fence buyer ought to know how the fence ought change over the fence of the speem good enough the speem good enough the speem good enough the speem good enough that the speem good enough the speem good enough the speem good enough that it is now that they were some good enough that the speem good enough the speem good enough that the speem good enough the speem good enough that the speem good enough that the speem good enough the speem good enough that the speem good enough the speem good

Breeders' Directory

SHEEP

ABRAM EASTON, Appleby, Ont., Lefcester sheep. Show ring and breeding stock for 0-8-25-09 obs. milk per day, No culls, e-9-19-00 sale. R. H. HARDING, Mapleview Farm, Thorndale, Ont. Porset Sheep a specialty. Telephone. E-3-17-09

SWINE JOS. FEATHERSTONE & SON, Streetsville, Ont. Large Yorkshirk Hogs for sale. E-11-09

CATTLE

J. A. GOVENLOCK, Forest, Ont. Herefords. Canada's greatest winners. Toronto and London, 1907-1908. Stock, all ages, for sale. E-3-10-09

HARRISON BROS., Mt. Albert.—Hereford cattle, Oxford Down sheep. Stock for sale at all times. e-5-23-69

RICHMOND CO., QUE.

DANYILLE.—This has been a peculiar winter, more thave than usual, followed by her control to the property of the property

COMPTON CO., QUE.

COMPTON CO., QUE.

COMPTON CRIVITE. — A heavy storm recently when nearly two feet of snow feel, filled up the roads and nearly put a stop to traffic. Pork has risen in price and some butchers are paying 19% a lb. Butter is 26c a lb. Eggs, 35c a dor. Parmers' hens are not laying as well as usual. Many think it is because of so much stormy weather. Possibly they are not fed correctly for the production of eggs—iff. C.

ONTARIO

HASTINGS CO., ONT.

HASTINGS CO., ONT.

CHAPMAN.—Eggs have for a while been very scarce and high in price, but the hean have begun laying again. With the saded supply the price has dropped to 25° a for. Fotatoes are in good demand, and of the To a bag. The supply of hay and etfor To a bag. The supply of hay and etfor To a bag. The supply of hay and etfor To all local demands, and price means the supply of the s

TURIFF-Mest travellers from the south think our locality rather hilly, but, as a young farm laborer from southern contario, remains a product of the contario, remains a product of the contario, remains a product of the contario, remains a product of our residents who former out of the contario, and the contarion of the morth. There is considerable lumbering going on this winter, giving employing going on this winter, giving employing the mines would have left idle. Peas are very exerce, and oats have risen to 50 era very exerce. TURRIFF.-Most are very scarce, and oats have risen to 50c a bush.—W. R. W.

NORTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., ONT.
WICKLOW.—If the Danes are leading us
in the bean trade, why not send a deputation at a least of the send that the send trade that
attended the send to the send that the send that
barns and outbuild more destroy,
dot 9, con. 1 in this towned. For each send
of 9, con. 1 in this towned to the send to the

DURHAM CO., ONT.

DURRIAM CO., ONT.

BIACKSTOCK.—This winner has been a fine scason for working in the bush, there here in the scason for working in the bush. The being not too much amount of the being not too much more through. Farmers have harvested their lee for summer use. It is of the best quality that we have handled for years, the bush of the bush of

10c. The latest success. Black Watch The big black plug chewing tobacco.

OUR FARMERS' CLUB prices. There seems to bring satisfactory prices. There seems to be a great demand for mileh cows. Catle generally are bringing good prices. The seems to be a great demand for mileh cows. Catle generally are out manure in the winter season business out manure in the winter season become general, practical farmers are gradually beginning to realize that it is the proper time for placing it on the land—R. J. F.

PETERBORO CO., ONT.

PETERBORO CO., ONT.

LASSWADE—We have had exceptionally mild seacher so far. As regards the snow, there has been a much nicer winter for many reviewed to the season of the season of the season to be lots of work with a wave seems to be lots of work with a wave seems to be lots of work with a wave seems to be lots of work with a wave lots of the season of the seaso

VICTORIA CO., ONT.

VICTORIA CO., ONT.

HARTLEY.—The stock is doing reasonably well. The mild weather has been favorable, and with a reasonable amount of feed the cattle will be able to climb up the May hills. Some of the farmers have been asying in a good sunley of the stock of the control of t

HALIBURTON CO., ONT.

HALIBURTON CO., ONT.

KINMOUNT.—Live stock is coming through the winter in fairly good shape. Prices for produce have not any appreciable extent. Onto the shaped to any appreciable extent. Onto the shaped to the shape of the s

MIDDLESEX CO., ONT.

MIDDLESEX CO., ONT.

TEMPO.—The following is an account of cme old time weather taken from my old books: Feb. 13, 1876.—Very warm, have considered to be supported by the support of the s

PERTH CO., ONT.

PERTH CO., ONT.

LISTOWELL.—Two very successful dairy meetings were held on Monday, Feb. 22, one in the today one in the today one in the today one in the today of the fitternoon, and the other both me had twood, in the evening. Both me had twood, in the evening. Both me had vere well attended. Mr. George H. Barr, of Ottawa, new his popular lecture on the milk, illustrated by lantern views which successful and the successful of the proposal o

BRUCE CO., ONT.

HEPWORTH.—There is a large quantity f both wood and logs still in the bush, HEPWORTH.—There is a large quantity of both wood and logs still in the bush, nut. ready to hand. In the lower of the farmers have started to put on the lower of the farmers and the lower of Dairy Gows for this Locality?-J.R.L. WIARTON.-Nobody complains of want of water now. though we certainly knew what a scarcity of water meant till well into January. For nearly three weeks we have had hare ground, making pros-

IVE HOGS

We are buyers each week of Live Hogs at market prices. I For delivery at our Packing House in Peterborough, we will pay equal to Toronto market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you.

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$6.75 a Cwt. OR HOGS WEIGHING 160 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH. -

HULL,

pects doubtful for wheat and clover. pects doubtful for wheat and clover. So much hardwood timber got burnt over last October that there is scarcely an acre of green bush left. Consequently logging of green bush left. Consequently logging on the property of the period of the p

LAMBTON CO., ONT.

LAMBION CO., ONT.
THEDPOID.—We are having very pleasant wines weather. Recent thave have
and the seather. Recent thave have
made a lot measure. Hough some are still
in need of more to though some are still
in need of more to though some are still
in need of more to though some are still
in need of more to though some of the seather was not maintain the Pertility of
the Solician and Maintain the Pertility of
the Solician of the Reising of Positry.
In an adjoint The Reising of Positry.
In an adjoint The Interest market is
improving somewhat. Eggs and butter
have gone down a little, while grain and
like stock are better in price.—K. L.

THINDRE BAY DISTRICT. ONT.

THUNDER BAY DISTRICT, ONT.

So thousand dollars, and while the handling wer of dairy products is the chief object, its cre charter gives the company wide scope in ing promoting all agricultural interests. The

GOSSIP

RAW

Shipments Solicited. JOHN HALLAM TORONTO, ONT.



PETER HAMILTON Corn and

are the safest, strongest, easiest to operate and best cutters made.

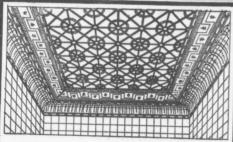
PLOWS

Farmers everywhere testify to the splendid work of our plows

Better Get One Send for Catalogue.

The Peter Hamilton Co. Peterborough, Ontario

It is desirable to mention the name of this publication when writing to advert



Why should you use Plaster, Wood or Wall Paper when you can get

METALLIC WALLS AND CEILINGS

Build of metal and you build for a lifetime. Build of metal and you build for health. Build of metal and you build for safety.

Our Metallic Walls and Ceilings are made from pickled, cold rolled and close annealed steel plate—each part subjected to a pressure equal to 500 tons. This means strength with light weight.

No cracking or dropping off like plaster. No danger of arsenic poisoning as with wall paper. No expense every year for repairs. Tell us just what size your rooms are-and we will tell you what it will

Rich, tasteful, artistic designs in hundreds of patterns to choose from. Samples of designs sent free on request.

METALLIC ROOFING CO., LIMITED MANUFACTURERS

TORONTO AND WINNIPEG

The Canadian Dairyman and Farming World is the official organ of The Canadian Hose Briefland Association, all of whose Briefland Association, all of whose Briefland are readers of the page to the page of the Association are invited to send items of interest to Holstein breeders for publication in this column.

HOLSTEIN FRIESIAN NEWS

BULL TRANSFERS FOR JANUARY, 1909,

publication of these transfers is for by the Holstein-Friesian Breeders'

Sir Dot de Schuiling. M. E. Woodworth o John Pickering, Frelighsburg, Que. Sir Inka of Pieasant Yuew, P. Leeson o Walter A. Mitchell, Bayham, Ont. Sir Jewel Burke 2nd, Wm. Webb to Chas. Jarr, Inverary, Ont.

Sir Johanna of Riverside, J. W. Richard-on to James W. Clark, Clanbrassil, Ont, Sir Johanna Pietertje Keyes, A. Dunn to

sold to James w. Guark. Glanbrassell. Ont.

Hir Johnman Pietertie Keyes, A. Dunn to

Sir John Mavourney De Kol. Abraham

Sir John Marourney De Kol. Abraham

Sir John Marourney De Kol. Abraham

Sir John Marourney De Kol. Abraham

McCorman De Kol. H. Gilbert to George

Harden De Kol. De Marourney

McCorman De Marourney

McCorman

McCorm

Triumph Keyes, George W. Anderson, to liveil Thompson, Mountain View, Ont. Victor Gretqui De Kol, James H. Moxley o Wilmer Bradley, Lansdowne, Ont.

COW TRANSFERS FOR JANUARY, 1909.

Anlite Abbriebert and, J. H. McLean to S. Rollingsworth, Albein, Ont. Alloe Teake, E. Benn, Ont. Alloe Teake, E. Hon to W. M. Peare, Tillsohurg, Ong Hon to Wm. Scott & Son, Addison, Ont. Annie Netherland 3rd, R. L. Hodgins to Charles W. Summer, Pond Mills, Ont. Andrew Pet. O. Lillie to J. Sheridan, Terotto, Ont. Cont. Ont. Cont. Asltje Abberkerk 2nd, J. H. McLean to Hollingsworth, Athens, Ont.

Beoth & Bon. Addision. Unit.
Bell Warn. J. D. Truesdell to J. Sheridan. Toronto, Ont.

Reside Clothilde Posch. D. Jones, fr., to
Reside De Kol Pride, N. G. Charlton to
Bessie De Kol Pride, N. G. Charlton to
Reside De Kol Pride, N. G. G. W.
Reside De Kol Pride, N. G. G. W.
Reside De Kol Pride, N. G.
Resi

Cassy Netherland, D Jones, jr., to J. W. Richardson, Caledonia, Ont. Cassy Rubena, D. Jones, jr., to B. J. Boake, Downsview, Ont. Centre View's Gem. P. D. Ede to Chas. W. Wells, Cotswold, Ont. Centre View's Gem. P. D. Ede to Chas. W. Wells, Cotswold, Ont. Centre View's Gem Burke, P. D. Ede to Chas. W. Wells, Cotswold, Ont. S. J. Griss, G. Wells, Cotswold, Ont. S. J. Griss, G. Wells, Cotswold, Charlotte, Schmilling, M. E. Woodworth to Ernest Croteau, St. Paul de Chester, Que.

Que.
Clara W., George Pallett to William Pallett, Summerville, Ont.
Clothilde Maud, Gordon H. Manhard to J. Sheridan, Toronto, Ont.

ANALYSIS and TESTS

Analysis if properly made will show the food value of any preparation. The ingrediguis cannot be separated by analysis. So guiss cannot be separated by analysis. So is claimed. It is the aromatic qualifier of Herbageum that make it valueble. It adds the animal to thoroughly digest and assimulate and the animal to thoroughly digest and assimulated the animal to thoroughly digest and assimulated the animal to the property of the second property of the secon



FARMS, HOUSES AND LOTS FOR SALE BLEWETT & MIDDLETON, 42: George St., Peterboro

For Farms, Houses, Lots BELL AND TAYLOR 376 Water Street

-WANTED

If you want to sell property which you own in the U. S. or Can- TARM town property ada, such as a FARM or a business write us at once for our new successful plan of selling direct BUY American Investment Association SELL

Cora De Kol Cornucopia, J. A. Caskey to Wm. Pollock, Wellman's Corners, Ont. Coral De Kol, J. D. Truesdell to J. Sheri-dan, Toronto, Ont. Coralle, J. D. Truesdell to J. Sheridan,

Toronto, Ont.

Toronto, Ont.

Countees Pauling De Kol, H. E. George
Countees Pauling De Kol, H. E. George
to Robert Toole, Sarnia, Ont.

Craigie Lea Queen, David Taylor to
Eigin Wood, Kelvin, Ont.
Daisy Bahs 5th, Elias A. Smith to
Nathan Grey, Eden, Ont.
Nathan Grey, Eden, Ont.
Daisy Calamity, B. Mallory to George
McKenzie, Thornbill, Ont.
Daisy Daks, Ot. H. E. George to W. T.
Whale, Goldstone, Ont

This is new book dissined December mass, we have two in a concise, practical mass, we have two in a concise, practical way, the first of the concessity of the details. It shows the necessity of variables on and tells how to ventilate, and the concessity of the concessity of the concession of the con

Price, postpaid - 75c. Book Department. RURAL PUBLISHING CO., LIMITED,

Ont

Peterboro . .

Great Dispersion Sale

At Annandale Stock Farm ON THURSDAY AND FRIDAY, MARCH 11 AND 12, 1909

100 Registered Holsteins and Ayrchires 100, 20 Brood Sows and 20 Shoats, 2 Boars, heavy and light horses, farm machinery, etc. Absolutely everything goes as the owner is retiring THE HOLSTEINS.—There is one daughter of Calamity Jane and 20 of the get of Prince Posch Calamity, son of Calamity of Calamity Jane 2nd, 25 of the get of Prince Posch Calamity, son of Calamity and 2nd, 25 of the get of Prince Posch Calamity, son of Calamity and 2nd, 25 of the get of Prince Posch Calamity, son of Calamity and Calamity, son of Calamity, son o

sphn of Haceneys, two and three years old, All work horses, used to 3 and 4 horse hitchem MACHINERY. Potato cutter, planter, sorter, sprayer and digers, thrifts had MacHinery, two grain choppers, having and grain harvest-diger machinery for fast work of the state o

AUCTIONEERS

Maj. E. Ralmas, Norwich
T. M. Moore, Springfield
E. J. House, Tillsonburg Co . D. L. Perry (The Only), Colum " L. G. Pearce, Tillsonburg Catalogues by 26th February. Write:-

GEO. RICE, Tillsonburg, Ont., Proprietor.

it is desirable to mention the name of this publication when writing to advortisers



PERFECTION Seed & Grain Separator (Patented 1901)

THE TEMPLIN MFG. GO., FERCUS, ONTARIS

GEO. JACKSON, Auctioneer. Live stock a specialty. Address Port Perry. 'Phone

SOUTHERN ALBERTA

the Winter Wheat Belt of the North-West. Twenty thousand acres at rock bottom prices. Average yield 45 bushels per acre. Can you afford to overlook this? Illustrated booklet, etc., on

IMPERIAL INVESTMENTS LTD.

33 Empress, Winnipeg, Manitoba

WINDMILL

every five feet apart and double braced Grain Grinders Pumps Tanks Gas and Gasoline Engines

Concrete Mixers WRITE FIR CATALOGUES

GOOLD, SHAPLEY & MUIR CO., LIMITED BRANTFORD, - CANADA



We have more Cows at Dutchland Farms with large Milk and Butter Records than any other Breeder in the World.

Procure a bull to head your herd with the We Offer

Dutchland Colantha Hark

hose two nearest dams average better in 30 1/2 lbs. of butter in 7 days, 121 1/2 i. in 30 days, and 92 lbs. of 4 per cent. milk

il day, His dam, Minnie Hark, was the Associa-on Prize Winner in 1:04-5 and 1905-6. In the atter year she was winner in both 7 and 30

titer year she was winner in bots and classes.

Ay classes.

Dutchland Colantha Hark as an individDutchland Colantha Heark as an individal, has few equals, being marked very
al, has few equals, being marked very
al, has few equals, being marked very
al, has few equals, being marked very
all the collection of Colantha 4th sohanna, the World's
hampion nits and futter Cow. Write
odday for extended pedigree.

FRED F. FIELD 1901 HOLSTEIN COMPANY Brockton, Mass., U.S.A.

Daiay Pietje De Kol, W. A. Hartley to leorge Jull, Ranelagh, Ont. Daughter of Gold Thread, to Alex. Wil-lams, Cherry Valley, Ont. De Kol Mantel 3rd, O. Lillie to Manhard Lillie, Manhard, Ont.

De Kol Mantel 3rd, Manhard & Lillie o Gordon H. Manhard, Manhard, Ont. Diploma 3rd's Alice, Dr. Leduc to Jos. Croteau, St. Patrick de Tinwick, Que.

Diploma 3rd a Allee, Dr. Ledius Ont.
Croteau, St. Patrick de Tinwick, Que.
Domino 2nd, J. D. Truesdell to J. Sheridan, Toronto, Ont.
Dorrinda De Kol, Logan Bres, to J. D.
Dorrinda De Kol, Logan Bres, to J. D.
Dorrinda De Kol, Logan Bres, to J. D.
Dorrinda De Kol, J. Burns Maclennan to
W. J. McNauguch, J. Burns Maclennan to
W. J. McNauguch, J. Burns Maclennan to
Dorchester, H. E. George to
H. E. George, rampton, Ont.
Duches of Dorchester, H. E. George to
Morton & Adams, Tofield, Alta.
Duches of Dorchester, H. E. George to
Morton & Adams, Tofield, Alta.
Ander Shaw, ayne, Joseph White to Alexander Shaw, ayne, Joseph White to Alexsteel to H. Mallory, Frankrod Ont.
Edna Rubicon De Kol, George A. Bonesteel to H. Mallory, Frankrod Ont.
Edna Rubicon De Kol, C. P. Davis to
H. Hurriburt, Hatley, Ont.
Estelle 3rd's Perfection, J. R. Taylor
to John McConachie, Norwich, Ont.
Ethel Evergreen Abbeker, H. E. George
to R. J. Mills, Strathcona, Alta.
Cheland to Robert A. Cleland, Listowel,
Ont.
Procence Pietertig Artis, Estate of Wr.
Procence Pietertig Artis, Estate of
Procence Pietertig Artis, Sand, Estate of

Florence Pietertje Artis 2nd, Estate of Wm. Cleland to Robert A. Cleland, Lis-

Wm. Oleland to Ropers a. Communication of the Commu

Acrawou, Van., Grace Mantel, Delorma Patterson to Grace Mantel, Delorma Patterson to Arnold, Easton's Corners, Ont. Brack, Domester, Delor, St. Cornel, Cont. Grack, Downsver Grack, Downsver Grack, Downsver Grack, Downsver Grack, Downsver Grack, Downsver Grack, Delor Grack, Downsver Grack, Grack,

Hettie De Koi, J. H. McLean to 8. Hollingsworth, Athens, Ont.
Hulda Wayne's De Kol Pieterrije, J. D.
Truesdell to J. Sheridan, Toronto, Ont.
Truesdell to J. Sheridan, Toronto, Ont.
The Loud of the Control of the Co

Bell to Watter L. Wilson, Willetabolme, Ont. 13 Watter L. Wilson, Willetabolme, Juliana March, Wm. T. Bell to Watter L. Wilson, Willetabolme, Ont. L. Wilson, Willetabolme, Ont. Kitty. Delorma Patterson to J. B. Arnold, Easton's Corners, Ont. E. George States, C. Wilson, Willetabolme, Ont. E. George, C. Wilson, C. Wilson, Ont. E. George, C. Wilson, W. Woodstock, Ont. Lady Rosetts and, F. E. Pettitt to Esselle Tree, Woodstock, Ont. Lady Rosetts and, F. E. Pettitt to Esselle Tree, Woodstock, Ont. Lady Rosetts and P. Wilson, W. W. Dearce, Tilsonburg, Ont.



HERE was a time when everybody bought roofings that required paint-It was the regular thing to do. In fact there was nothing else to do, for all roofings were "smooth surfaced" and required painting regularly to keep them from

Now there is Amatite, an improvement over painted roofings, having a real mineral surface imbedded in pitchmaking a kind of flexible concrete.

This mineral surface needs no painting. The waterproofing material, Coal Tar Pitch, is the greatest enemy to water known. It is the base of many waterproof paints. Only in a paint the pitch is diluted and made into a thin film, whereas the Amatite waterproofing is solid pure Pitch-two layers of it. It would take something like a dozen coats of pitch paint to equal in thickness that upper sheet of pitch in which the Amatite mineral surface is buried. And under that heavy sheet of pitch is a layer of wool felt and under that another sheet of pitch, just as thick as the outer one. And below them all is an-

If the storms were away the mineral surface and dug through the pitch and destroyed the felt, they would still be only half way through. And if the weather then removed the next sheet of pitch, you would still have left a final layer of felt-nothing more or less than an ordinary smooth surfaced roofing which could keep off the rain very nicely if painted

every year or two. But as a matter of fact, the weather never gets past that mineral surface securely gripped in its matrix of pitch.

The mineral surface is there to stay. No painting-no bother -no further expenses after the roof is once

We should be glad to send you a free sample of Amatite, and you can see for yourself how much better it is than the smooth surfaced kinds. Address our neares

The Paterson Manufacturing Co., Limited TORONTO, MONTREAL, WINNIPEG, VANCOUVER, ST. JOHN, N.B., HALIFAX, N.S.

Champion **Evaporators**

Last a lifetime. We have cus-tomers all over Canada and the United States who have been using our Evaporators from one to twenty-Grove (any size) we can sell you a "Champion" Evaporator that will get more money out of it for you.

FREE-Write for our illustrated booklet. It's full of us tion for Syrup Makers. It's full of useful informa-



"Champion" Evaporator

THE GRIMM MFG. CO. 58 WELLINGTON ST., MONTREAL

GET A FREE COPY

Of our catalogue of books on Gardening, Dairying, and General Farming. Write to: THE BOOK DEPARTMENT, THE RURAL PUBLISHING CO., LTD., PETFRBORO, ONT.

THE COOPER RESEARCH LAEORATORY It is not generally known that the fam on various farming topics. We understand that the Toronto Branch of Wm. Lampstead, Eng., was established by Sir (Cooper & Rephews will be very glad to Brichard Cooper of the famous Sheep Dip farm for the aid of agriculturists general will enable him to be placed upon the mailing list of this splendid institution. IRE COUPER RESIGNED LAFORATORY It is not generally known that the fam ous Cooper Recearch Laboratory at Berk-hamptead, Eng., was established by Sir Richard Cooper of the famous Sheep Dip for the aid of agriculturists generally for the aid of a gradual to the same that the same than the s

cet literature and results of experiments on various farming topics. We understand that the Toronto Branch of Wm. Cooper & Nephews will be very glad to forward any farmer a postal card which will enable him to be placed upon the mailing liss of this splendid institution.

A Profit of \$488.68—Mr. Dickerson of Fort Wayne, Ind., writes Jan. 5, 1999, as follows:

Lightning FE LOCK SHIN Free Truth

Shingles will insure safety from lightning.

It is absolutely free. You do not have to pay one cent for this preceion, either directly or indirectly not indirectly one half the fire losses on barns in Canada result from lightning. This loss, running into the hundreds of thousands of dollars, can be entirely prevented if Safe Lock Shingles are used.

We know this, and we back up our statement with a Free Insurance Policy payable under its terms in cash. Policy payable under its terms in cash.

Safe Lock Shingles are sold at the
same price as shingles known to be
inferior in quality of steel, galvanizing and construction.

We have been manufacturing Safe We have been manufacturing only Look Shingles for over ten years, and roofs laid when we started in business are still "as good as new," to quote from hundreds of letters we have on file in our office from our pleased and extincted automora. satisfied customers.

satisfied customers.

In all this time these roofs have not cost one cent for repairs of any sort.

In all these years no building covered with Safe Lock Roofing has ever been destroyed by lightning.

Do you know that Safe Lock Shingles fully meet the rigid require-ments of the British Government for Admiralty and other public service. Think what that means. Let us illus-

trate.

Every farmer knows from experience that ordinary galvanized fencing seldom lasts longer than two or three

VERY Canadian farmer who expects to build or re-roof his to poets to build or re-roof his bouse or barn should write us Lighting for details of our Free lain their construction then with Safe Lock Metal glavaning is leavier.

To-day we are using better mater and the stell is of higher grade, and the stell in the stell is of higher grade, and the stell is of higher grade, and the stell is of higher grade, and th aving them raw and exposed to In Fig. 1 the solid black line decaying action of moisture.

We want you to remember the the bottom lock. Notice that a

contraction due to heat They cannot unlock.

Illustrations 3, 4 and 5 show the construction of other metal shingles.

F10. 3

No. 3 is the old-fashioned cleat No. 3 is the old-fashioned cleat shingle now almost entirely driven from the market by the Safe Lock. These do not always show duter, and it is almost impossible to keep them from leaking after they have been on for a season or two.

Fig. 4

Note in No. 4 that the nail is only about half way driven into the sheeting, leaving a large surface exposed ing, leaving a large surface exposed reactions. However, we have a large surface we have a large surface with the surface of the steel, which has a tendency to pull out the nails, causing a loose, leaky, rattling roof.

No. 5 is a side slip pattern, similar on the market. The one No. 5 is a side slip pattern, similar to many now on the market. The one shingle slips into the other, but does not lock. Shingles constructed in this way pull apart easily and must not be confused with the positive lock in our Safe Lock Shingles, as shown in No. 2

our Safe Lock Shingles are absolutely uniform. We have spent time and money to perfect their construction, which is fully protected. They are now easier than every patent. They are now easier than they are not easier than the not easier than the not easier than they are not easier than the not easier than the

SAFE LOCK SHINGLES are the only shingles that-

- I. Give you a positive guaranty against Lightning, backed up by a policy signed and guar-anteed by the manufacturers.
- Meet fully the rigid requirements of the British Government for Public work.
- Lock on four sides, and cannot be pulled apart.
- 4. Have three (3) thicknesses of metal along upper edge at point of greatest strain.
- Completely protect nails from weather.
- Have edges galvanized after being cut to exact size.

dom lasts longer than two or three years without showing signs of run on all four sides. Other shingles to Go Government use gives years and enough for a permanent, durable years of service, owing to the splendid roof. We know of many instance, and so seek Lock Bhingles are galvanized shingles are galvanized. Safe Lock Shingles lock positively of buildings covered with these Safe Lock Shingles are galvanized shingle being entirely unroofed in the same as Government wire, and a stiff breeze. Another objection is therefore may be depended upon to give long service. We really do not apart owing to the warping of the deep firm grip which allows throw how long they will last. Safe sheeting to which they are nailed, ample room for expansion and

name Safe Lock. No other shingle double fold forms the top lock in-has that name.

No other shingle is a Safe Lock Shingle.

Shingle.

where the greatest strain comes.

With Safe Lock Shingles the
nails are driven full length into
the sheeting, and are protected by
the peculiar lock construction from
any possibility of water backing
up and starting rust.

The Metal Shingle of MINION COLUMN AND COLUM

..... Province.....

with the was and another many like you the was the was the was the first with the wall the

Let us send you a Peerless Incubator and Brooder to-day and start you on the right road to profitable poultry raising

OU can make more money out of poultry for the time, attention and investment it requires, than any other department of your farm will produce. The money is there. Others are getting it and you can get your share. But you must go about it the right way. Anyone who is making money out of poultry to-day will tell you, that to be successful you must use an Incubator. All you have to do is get the facts and decide which incubator will give you the

Now we have studied poultry conditions in Canada very closely -have been doing so for years. We have been raising poultry for years on our farm-the Poultry Yards of Canada Limited at Pembroke-and making good money out of it. We know that the incubators that are successful in the United States are not suited to Canadian conditions. We know, for we have tested every one of them. It was because these machines failed to come up to the standard of success which we were looking for, that we produced the Peerless Incubator. It has proved to be the most successful of all the ones we have tested. The Peerless is the only incubator used on our farm. If there was a better one made any place in the world we would use it-for our object is to make the biggest possible profits out of poultry.

It stands to reason that the Peerless Incubator must be the most successful in Canada. It is the only one that is made in Canada to suit Canadian condi ons and as the direct results of experience in poultry raising in Canada.

The Peerless Incubator has been thoroughly tested in all parts of Canada under all prevailing climatic conditions. In every case it has proven the most successful.

We have thou ands of letters from all over Canada telling of the success our customers are having with the Peerless Incubator. Very likely some of these letters come from your neighbors. What we have said of the Peerless Incubator also applies to the Peerless Brooder. It is built to suit Canadian conditions and has proved itself to be the best brooder for use in Canada.

Right in your district money is being made out of raising poultry the Peerless way—you can make it too. Write for our book "When Poultry Pays." It tells the whole story. Sit down now, while you are thinking of it, and write for this free book.



Genuine advice and help for poultry raisers given by the Peerless Poultryfor-profit Club



We are honestly interested in the success of every purchaser of a Peerless Outfit. We want to help him in every way make every cent he can out of poultry. For this reason we have formed the Peerless Poultry-for-profit Club. Every user of a Peerless Outfit is entitled to the free advice and help of the experts on the farm of the Poultry Yards of Canada Limited. No matter what problem comes up-hatching, fattening, laying more eggs-just write us and the return mail will bring you full instructions. If you cannot get all the profit you think you are entitled to, just write us and we'll put you in touch with buyers who will pay the very highest market prices.



\$510 in Cash Prizes for the most successful poultry raisers—

We are thoroughly interested in the poultry industry of Canada. We want to see it become much bigger and more profitable. We want to see Canadian poultry raisers take more interest in their work and become more proficient in the operating of incubators.

We know that if we can create a competitive feeling among poultry raisers we will have done much for the industry in Canada. For these reasons we offer \$510 in cash prizes to the poultry raisers who are most successful. The prizes are divided as follows:-

First Prize	-	-			\$100.00
Second Prize			-		50.00
Third Prize	-		-		25.00
Ten prizes \$1	0 e	ach	-		100.00
Twenty prize	s \$5	ead	ch		100.00
Twenty prize	s \$3	ead	ch		60.00
Twenty-five p	rize	s \$2	eac	h,	50.00
Twenty-five p	rize	s \$1	eac	h,	25.00

The competition is open to every owner of a Peerless Incubator. Professor A. G. Gilbert, Chief of the Government Poultry Department at Ottawa, has kindly consented to act as judge.

The names of the winners will be published in this journal after the awards are made. Write to-day for full particulars.

We are helping lots of Peerless users to make big money nowwe can help you do it, too. Write us to-day for particulars.

LEE Manufacturing Co. Limited, 386 Pembroke St., Pembroke, Ontario, Canada

Early Maturity, a Good Color and a Firm Product are the Three Qualities that Orchardists find most difficulty in obtaining.

- \P This question has been causing fruit growers a great deal of thought in recent years.
- ¶ MARKET GARDENERS also desire to have their crops as large and as EARLY ON THE MARKET AS POSSIBLE in order to get the most remunerative results.
- ¶ Experience has proved that barnyard manure will not satisfactorily produce these desired qualities alone.
- ¶ However the inclusion, in a "Complete Fertilizer," of

POTASH

will invariably result in larger crops of better quality and an earlier and consequently more valuable product. This indispensible "plant food" ingredient can be obtained from all leading fertilizer dealers and seedsmen in

SULPHATE OF POTASH & MURIATE OF POTASH

The accompanying experiments show the PROFITABLE RETURNS to be obtained from an intelligent system of fertilizing. A study of these and other experiments that show the benefits of fertilizing in an equally striking manner cannot fail to prove interesting to the progressive orchardist and market gardener.

Experiment on "Strawberries" in 1908 Conducted by E. EMSLIE, Oakville, Ont.

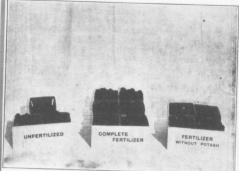
PLOT I. Unfertilized

PLOT II. Complete Fertilizer-Nitrogen, Phosphoric Acid and POTASH

PLOT III. Incomplete Fertilizer— Nitrogen and Phosphoric Acid only

PLOT I. Unfertilized

Experiment on "Wax Beans" in 1908. Conducted by V. G. HECTOR, Erindale, Ont. PLOT II. mplete Fertilizer— osphoric Acid and POTASH



Yield per acre . 2,560 Baskets 6.144 Baskets This experiment shows an increase of 2,048 baske's, directly due to the application of POTASH

4,096 Baskets

738 Baskets

This experiment shows an increase of 456 baskets, directly due to the application of POTASH ¶ Write for full particulars of this important fertilizing ingredient and copies of our free publications including:

- "Fertilizing Orchard and Garden"
- "The Potato Crop in Canada
- "Fertilizing Root Crops and Vegetables
- "Artificial Fertilizers': their nature and use"
- " Farmer's Companion," Etc., Etc., Etc.,

The Dominion Offices of the Potash Syndicate : : : : :

1102-1105 Temple Building.