

ANADIAN GOUNTRY LIFE

#### FARM AND DAIRY

## **BOWL SPINDLES**

2

This is one of the most important parts of the Separator, and is a part that has, perhaps, given more trouble than any other. Any slight accident to the spindle generally disables the entire bowl, throwing it out of balance, and making it run rough and hard.

In the SELF-BALANCING "SIMPLEX" SEPARATOR the spindle is relieved of carrying the weight of the bowl, therefore, it is relieved of all the strain which spindles in other machines are subjected to. The only function of the spindle in the "SIMPLEX" is to drive the bowl. In other machines the spindle carries the weight of the bowl, and is subject to all the strains resulting from the high speed. In the "SIMPLEX" it is merely a means for conveying the driving power from the gearing to the bowl. This driving power on account of the high gearing, is very slight indeed.

The "SIMPLEX" spindle is made of a special high carbon steel. It is specially treated in the drop forging process, and straightened by hydraulic pressure, so as to make it as free from internal strains as possible. We use the same care with the spindles that we did formerly when they carried the weight of the bowl, so that there is a very large factor of safety in the spindles of the SELr-BALANCING "SIMPLEX." In the "SIM-PLEX" the spindle instead of being one of the most important and sensitive parts of the bowl, becomes of secondary importance only, and is one of the great benefits derived from the SELF-CENERING BEARINGS.

## D. Derbyshire & Company

Head Office and Works : BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



**Ontario** Provincial Winter Fair

A meeting of the Executive Com-mittee of the Ontario Provincial Win-

mittee of the Ontario Provincial Win-ter Fair was held in Toronto on Tuesday, June 28th. It was decided to hold the next, fair from December 5th to 9th, 1910, at Guelph. This means that the fair will open on Mon-day instead of Tuesday as formerly. Poultry exhibits must be in the build-ing on Saturday previous to the open-ing, and the other exhibits must be in place by 10 o'clock on Monday moraing. This will be the week fol-lowing the International Show at Chic-ago so that animals can be shown at ago so that animals can be shown at both exhibitions.

both exhibitions. New classes have been added for Clydesdales, Shires, Standard Bred mares, ponies, Hackneys and a section for horses was added to the judging competition. Devons were struck off the prize list and separate classes were made for Herfords, Aberdeen Angus and Gellowere. and Galloways.

The following judges were appointed. The following judges were appointed. Civilestates, canadian-tred Clydes-dates and Shires, Shires and Draught borses, -Hon Robert Beith, Bowman-ville, Peter Christie, Manchester; Ed-ward Charlton, Duncrief, Hackneys, Dr. Quinn, Brampton, Dr. Routledge. Lambeth; Standad Breds: Dr. J. G. Rutherford, Ottawa: Beef Cattle, Ro-bert Miller, Stouffyille, James Smith, Rockland; R. J. Mackie; Oshawa; Beef Carcasses; Prof. G. E. Day, Guelph; G. F. Morris, London, Shrop-shires, J. C. Duncan, Lewiston, N.Y.; Guelph; G. F. Morris, London, Shrop-shires, J. C. Duncan, Lewiston, N.Y.; Southdowms, Dorsets, Suffolks and Hampshires, W. H. Beattie, Wilton Grove; Cotavolds, Lincolne, Leicewisers: John Gardhouse, Highfield, Jannes Douglas, Caledonia; Oxfords, J. E. Cousins, Harriston; Short Wooled Grades, J.C. Duncan, W. H. Baattie; Long Wooled Grades, John Gardhouse, James Douglas: Sheep Carcasses, Prof. G. E. Day, Geo. F. Morris; Dairy; Prof. H. H. Dean, Guelph; and Seeds: Prof. C. A. Zavitz, Guelph.

#### Bees As Profit Makers

J. A. Arnold, Washington, D.C.

The average annual honey yield per colony for the entire country should be from 25 to 30 pounds of comb honey or 40 to 50 pounds of extracted honey. or 40 to 50 pounds of extracted honey. The money return to be obtained from this crop depends largely on the mar-ket and the methods of selling the honey. If sold direct to the consumer, extracted honey birings from 10 to 20 cents a pound, and comb honey from 15 to 25 cents a section. If sold to dealers, the price varies from six to 10 cents for extracted honey and from 10 to 15 cents for comb honey. An of these extincts depend if they return the section of the section of the section of the section 10 to 15 cents for comb honey. An of these extracted hone if they return 10 to 15 cents for comb honey. the quality and neatness of the pro-duct. From the gross return must be duct deducted from 50 cents to \$1 a colony for the expenses other than labor, in-cluding foundation, sections, occasion-al new frames and hives, and other in-cidentals, not, however, providing for increase

These figures, however, are based on These ngures, nowever, are based on a system of good management. Bee keeping to be profitable requires hard work, knowledge and experience. Much study is required to insure suc-Much study is required to insure suc-cess. It is unwise, therefore, for the average individual to undertake ex-tensive bee keeping without considerable previous experience on a small allo previous experience on a small scale, since there are so many more details which go to make up success in the work. Learn the ways of bees, how to handle them, and what kind of equiprent is best. Then begin on a small scale, make the bees pay for themselves and for all additional apparatus, as well as some profit, and let the business grow gradually.

#### **Coming Events**

Portage la Prairie Exhibition, July 11-14, 1910. Winnipeg Inc July 13-23, 1910. Industrial Exhibition, July 7, 1910.

Exhibition, Highland and Agricul-ural Society of Scotland, Dumfries, scotland, July 19 to 22, 1910.

Regina, Sask., Provincial, Aug. 2-5. Vancouver, Aug. 15-20. Saskatoon Aug. 9-12. Edmonton, Aug. 23-26.

Estimation, Aug. 23-26. Sherbrooke, Que., Great Eastern, Aug. 27 to Sept. 3. Sherbrooke, Que., Pomological So-ciety (summer meeting), Aug. 30 to Sept. 1. Toronte Consultation

Toronto, Canadian National, Aug. to Sept. 12.

B

7 to Sept. 12. Dominion Exhibition, St. John, N. J. Sept. 5 15, 1910. Ottawa Central Canada, Sept. 9-17. London, Ont., Western Fair, Sept.

Charlottetown, P. E. I., Provincial,

ept. 20-24. Halifax, N. S., Provincial Sept. 23-

to Oct. 6.

Victoria, B. C., Sept. 27 to Oct. 1. New Westminster, B. C., Provincial, Oct. 4-8.

Ontario Horticultural, Toronto

ov. 15-19. London, Eng., Royal Horticultural Kow (for colonial-grown fruit and vegetables), Dec. 1-3.
 Maritime Winter Fair, Amherst, N.
 S. Dec. 5-8, 1910.
 Exhibition, Smithfield Club, at Roy-Exhibition, Smithfield Club, The For-

al Agricultural Hall London, Eng-land, Dec. 5-9, 1910.

#### Chicago Gets Dairy Show

The Fifth National Dairy Show will The Fifth National Dairy Show will 'o held in the Chicago Collseum, Oc-ober 20th to 20th, 1910, instead of in Milvaukee, as proviously announced. This action was taken at a meeting of the Board of Directors of the Na-tional Dairy Show Association while in Chicago, June 18:h. After inves-tigating every phase of the question and after considering how best to serve the varied interests of the show, not only from a financial standpoirt. not only from a financial standpoint, but from all others as well, the Directo:s voted to re-consider their previous action, and have entered into a contract with the Chicago Coliseum officials, and other business interests, to hold the 1910 Dairy Show in that city next October.

At no other time in the history of the National Dairy Show Ass ciation have conditions appeared so auspicious and the officials of the organizations so hopeful over the prospects for the next show. From now on, the work next show. From now on, the work of planning details and organizing the different branches will be actively pushed.—H. E. Van Norman, Secre-tary and Maneger, State College, Pa.

Every province in the Dominion has applied for space for a provincial ex-hibit at this year's Canadian National Exhibition and the result cannot fail to be the greatest display of the na-tional resources of Canada ever placed n exhibition. It will be a great chance for Canadians as well as visitors from other countries to see just what each corner of the great Dominion depends on for future greatness. And the net result cannot fail to be a pleasant surprise to Canadians as well as outsid-

With a horse prize list of \$13,000, very prominent breeder in Canada taking an active interest and the best horsemen of Britain coming across the ocean to do the judging, the horse show at the Canadian National Exhibisnow at the Canadian National Exhibi-tion promises this year to collose any-thing in its history. No class of horse has been neglected from the nonv to the Clydexale, and as in addition to the regular prizes there are specials in a large number of classes, the show is being looked forward to by horsemen generally.

I enclose \$1 for my renewal to Farm and Dairy. I would not be without it for twice the subscription price.-T. J. Wilton, Middlesex Co., Ontario.

#### Issued Each Weel

Vol. XXIX.

in a

A Man of Yea Taken into PPARENT

spondent wrote in a of labor on farm too long hours. say, seems to ha young people on has been all my working, but wl work. Very earl have some worth my energies to Probably I canno this question of attention to the life than by givin

ing over 70 years. Through the d I, at the early ag left to the care of 10 years old, I w one fall with a fa apples, get up ro: his clover seed.

One lesson my m me was that I she could at whateve ployed. When th the farmer for who ing, as a result of was very anxious him. I wished to ever, and my moth so; and I am thank wish of mother's w I received only 10 my board for my farmer, but I lean

SOME TH.N

Among these I mi particular. That w ing was an importan ing. I found that ceived \$2,500 for th acre orchard. I orchard would occu farm that I was bo

things.

At the age of 10, farmer in our coun isited many parts he east to Calgary including the vario the best farming dis and many parts of yet to see a better k I was employed. Th and we were not sup from five a.m. until descended from that there was a set time place for everything.

Issued Each Week

ingi

culies, 2-5.

ern. So-

ug.

N.

-17. ept.

cial,

t.

cial.

ural

and

, N.

Roy-

Eng-

w will of in nced. Na-

Na-while nves-estion

st to

show,

Direc-

vious

con-offic-ts, to t city

ry of iation

icious ations or the work ng the tively Secre-e, Pa.

on has al ex-tional

tional of fail e na--placed chance s from t each

epends

he net

nt sur-outsid-

13,000,

Canada he best oss the

horse

se any horse

tion to

specials

rsemen

o Farm without ice.—T. tario.

onv

ural, ,

. 23%

RURAL HOME FOR WEEK ENDING JULY 7, 1910.

FARMAND WALR

No. 27

Only \$1.00

a Year

Vol. XXIX.

#### SOME THINGS THAT MAKE FOR SUCCESS IN LIFE A. Gifford, Grey Co., Ont.

#### A Man of Years Tells How He Made a Success of His Life .-- Long Hours and Small Pay Were Not Taken into Consideration in flis Early Days. -Plain Talks from the Soul of a Successful Man.

PPARENTLY the Farm and Dairy correspondent from Prince Edward Island, who wrote in a recent issue regarding the hours of labor on farms, thinks farmers have to work too long hours. This same idea, I am sorry to say, seems to have taken possession of too many young people on our farms. To me the question has been all my life, not how many hours I was working, but what was I accomplishing by my work. Very early in life I was taught always to have some worthy object in view and to bend all my energies to the at ainment of that object. Probably I cannot better illustrate my views on this question of too many hours or urge better attention to the work we undertake in early life than by giving some of my experience covering over 70 years.

Through the death of my father, I, at the early age of three years, was left to the care of my mother. When 10 years old, I was employed during one fall with a farmer helping to pick apples, get up roots and take care of his clover seed.

One lesson my mother always taught me was that I should always do all I could at whatever work I was employed. When the fall work closed, the farmer for whom I had been working, as a result of my early training, was very anxious to keep me with him. I wished to go to school, however, and my mother wished me to do so; and I am thankful now that every wish of mother's was law to me then. I received only 10 cents a day and my board for my time with that farmer, but I learned a good many things.

SOME TH.N S LEARNED.

Among these I might mention o e in particular. That was, that fruit raising was an important adjunct to farming. I found that my employer received \$2,500 for the fruit off his 12 acre orchard. I decided that an orchard would occupy a considerable part of the farm that I was bound some day to have.

At the age of 10, I went to work for the best farmer in our county, and though I have since visited many parts of Canada from Halifax in the east to Calgary and Edmonton in the west. ncluding the various experimental farms, also the best farming districts in England, Scotland, and many parts of the United States, I have yet to see a better kept farm than the one where I was employed. Though hours were not counted and we were not supposed to be watching the sun from five a.m. until it reach d the meridian or descended from that point to the horizon, yet there was a set time for every work and a set place for everything.

For my first six months (the summer), I received \$5.00 a month and board; for the next twelve months, \$4.00 a month and board; both hed and board were of the very best. At the end of each term, my employer, a broad Yorkshire man, handed me a gratuity, in the first case of \$3 extra and in the last case of \$5, with the remark, "Thou hast been a good hand; here is somewhat for thee." I imagine I see the grin on the faces of many present day farm boys at the idea of working 12 and often 15 hours a day in summer, and in winter tending a big stable full of fattening cattle from 6 a.m. until 9 p.m. for such pay as I received. Readers of this article should not forget, however, that for every dollar in cash I received, I learned what has been

faster than I had been doing and thus sooner reach my goal of a farm of my own, than I could were I to work as a laborer. I secured a situation as a public school teacher. Starting with a salary of \$240 a year, I received regular increases until, for my fifth year, I received \$360, and at its close was offered \$400 to continue. In school work as in other work, I found it did not pay to count hours, though there was then as now a six-hour limit for the work of a school day. Although the boys and girls were just as fond of play 50 years ago as they are to-day, I never found any difficulty in holding classes even up to six in the evening or getting them to meet at eight in the morning when we had any special matter in hand. The question will be asked, did not the pupils suffer in health from such long and close application? Never that I heard of. Many of them I know to-day are like myself alive, well and active though far past middle



Though the offer of \$400 per annum for a country school was considered a very big salary 50 years ago, to accept it would have meant one year less on that farm I had always planned to have. I declined the offer, taking Horace Greeley's advice to go west. To-day I have one regret-that I did not go farther west, but that is too late to mend now. I did what I thought to be the best as I was still keeping that orchard in view and an orchard would be of little use except in a district where fruit was known to succeed.

At the age of 24, I had accomplished part of what I had planned; I had the makings-the foundation of a farm. All my savings with a mortgage on top of them were in it.

HOURS NOT CONSIDERED.

The question now was, not how many hours I should work in the day, but how to make in the shortest time, on that foundation, the farm I ha planned for. Young mer ywhere should ask their grow haired sires that have made Ontario what it is to-day,

now much of the work was done by counting hours or watching the sun through its daily course. They will find the answer in every case where they have succeeded, that it was by a total indifference to the hours of work. Hours of work were never thought of. Efforts were all directed to doing this, that or the other thing well and in the shortest possible time knowing that with each task completed, another was standing

Your Prince Edward Island correspondent and Farm and Dairy readers will now be asking, did I succeed? My answer is yes, and I am satisfied. I have converted many acres of unproductive land into fruitful farms with comfortable buildings and attractive surroundings. I have raised a large family and have given them good educa-



A Neglected Orchard Typical of the Worst in the Georgian Bay District

A register organic spines of use provide the use verging by District I was just such an orchard as the one illustrated that was taken over by the Department of Agriculture under the direction of Mr. 1. F. Metcalf, for demonstration purposes at Greenore, out word allowed million. Such, how-ever, is not the case, as the work already done in the case, as the work already done in the case.

worth hundreds of dollars to me since, and the few words of praise given in my employer's intervely dialect, were a tribute to my attention to his interests without regard to the hours employed, and I app. ated them, if for no other reason than that they pleased mother.

For the next three years, I worked with farmers by the day, or by the month, or by the job as opportunity offered, attending school whenever I had even a day off and learning all I could in other ways.

SCHOOL TEACHING VS MANUAL LABOR

When 1S years old, I succeeded in getting a second class teacher's certificate. At that time, I thought that by teaching I could s re money tional opportunities with each one a fair start in the world. I have set them an example of strict temperance in all things and in moral living, which I am pleased to know they are all following. I find that I have a confortable home still left for my old age with, I trust, sufficient to occasionally do a kind act and keep me from the house of refuge.

#### FRUITS OF EXPERIENCE.

Just here, I would like to say that the orchard I planned when 10 years old to have some day has materially helped me. Hard work and long hours when accompanied with a well regulated life in my experience I have found to be conducive to health and strength in old days, of which I am a living proof, for though past the allotted three score years and ten, I feel perfectly well and enjoy life and work as well as I ever did.

I fear that possibly you, Mr. Editor, and the young readers of Farm and Dairy, whom it is my object to benefit by convincing that to begin life by counting hours or watching time is a poor way to succeed, will think that there is too much egotism in this article. Every statement made, however, is a fact, and I believe represents the experience of thousands of the successful farmers of Ontario, in the essence, if not in the exact particulars, as herein given.

#### Prevention of Cattle Tuberculosis in Denmark

At the British Congress on Tuberculosis held in London from July 22-26, 1901, Prof. Koch startled the scientific world by the assertion of his belief that Lovine tuberculosis was not proved to be transmissible from animals to man. This statement led to the immediate appointment of a British Royal Commission to go carefully into the whole subject. The Commissioners presented a second interim report in January, 1907, and, as a result of experiments and investigations, they have concluded decisively that bovine tuberculosis is capable of causing tuberculous disease in the human subject and that cow's milk containing bovine tubercle bacilli is clearly a cause of fatal tulerculosis in man. With this report before them and also possessing evidence that milk cans coming into the city contained living tubercle bacilli, the Health Committee of the Corporation of Birmingham, England, commissioned their Deputy Chairman (Mr J. C. Dexter), the Medical Officer of Health (Dr. John Robertson), and the Veterinary Superintendent (Mr. John Malcolm, F.R.C.V.S.) to visit Denmark and report upon the isolation method devised by Prof. Bang, who is principal of the Copenhagen Veterinary College, for the freeing of Danish dairy herds from tuberculosis. On their return they presented to the Birmingham Health Committee a report in which the method employed by Prof. Bang is described and recommended for adoption in Great Britain.

#### THE BANG SYSTEM.

In  $e^{-1/\omega_T}$  with this disease Professor Bang relies upon segicartion and isolation and not upon alonghter. Only cores with tuberculosis of the udder, and wasters, manifestly dau\_d wasters from extensive, open, generalised tuberculosis, <sup>2</sup>ves alaughtered. His method depends upon (1) the use of tuberculin to diagnose the disease; (2) the complete separation of healthy animals from diseased; and (3) the gradual rearing up of a healthy non-infected stock to replace in due course the infected. It is stated that the result of the application of these measures during the past 16 or 17 years has been that between 600 and 700 herds of dairy cattle in Denmark have Leen freed or practically freed from tuberculosis.

The first step is the application of the tuberculin test and the separation of reactors or diseased animals from non-reactors or healthy animals. The two divisions are then kept rigorously apart, by removal of one set to another

farm, by keejing the two sets in separate fields or at different ends of the same field, and in buildings by the erection of wooden or brick partitions unprovided with doorways or other openings. In Denmark it is the custom to

#### Will Describe New Ontario

The editorial representative of Farm and Dairy, who recently visited the clay belt of New Ontario with the members of the Canadian Press Association, was so impressed with the possibilities of that great section of country, and with the development that is taking place there, that Farm and Dairy has since completed arrangements for the publication during the next two months of a series of articles describing conditions in New Ontario. An editorial representative of Farm and Dairy has left for the Temiscamingue district. During the next seven or eight weeks he will visit the various sections of the district where settlement is taking place. He will talk with the settlers, secure photographs of their homes, examine their crops, and find at first hand what the possibilities of the country are, as far as they can be ascertained at present. Each week Farm and Dairy will publish an article from him. Watch for these articles. The first will appear in next week's issue.

tother cattle at grass, which lends itself to isolation of animals in the field.

REARING HEALTHY STOCK.

The next step is the rearing of healthy stock from infected parents. Prof. Bang accomplishes this by the removal of calves at birth from infected parents to a place free from infection, where they are fed on milk heated to 176° F. -sufficient to kill tubercle bacılli-receiving, however, immediately after bir h, milk from healthy cows. The calves are tested with tuberculin, and subsequently the whole stock are tested half-yearly, all reactors being removed. When these measures have been efficiently maintained for two or three years real success is secured, Prof. Bang states, at comparatively little cost to the farmer; but the effective isolation by maintenance of the stock in two separate herds for several years does entil constant vigilance and much real work.

Instances are given in the report of notable success in dealing with tuberculous herds by this method. In the case of four herds under



#### A top. to Breed From

The marc illustrated. "..."AdMack, is the property of Mr. Chas. Watson, York Co., ".....the interior of whose stable is featured on the front over of Parm and Dairy this week. Lady Mack is four years old and registered. Mr. Watson is just starting to breed heavy horese, and he believes in starting right.

one ownership as many as 350 animals out of 448, or 78 per cent., reacted in 1895. In 1908 the number of reactors was 10 out of 784, or 2.4 per cent. A herd of which 26 per cent. were tuberculous has within a few years by care and trouble but with little pecuniary expenditure, Leen entirely freed from disease. A herd of 208, of which 131 reacted in 1892 and 44 out of 227

in 1899, consisted in 1902 of 244 animals all healthy. The whole of these cows came from the original stock and most of them were derived from tubercle-infected mothers.

The report describes the excellent regulations and precautions which are in force for the sale and delivery of milk in Danish urban centres. It is stated that many dairymen supplying towns have freed their herds from tuberculosis by adoption of the simple measures recommended by Prof. Bang. They are thus enabled to sell their milk as "baby milk" for the nursery, which by Government order must be the product of cows certified to be free from tuberculosis. The retail price of such nilk is stated to be approximately twice that of ordinary milk.—Gensus and Statistics Monthly.

#### Hints on Harvesting Alsike Alex. Smith, Durham Co., Ont.

When harvesting our alsike crop if we are short of help, I set two mowers going about four o'clock in the morning and swath it down until about ten o'clock; then discontinue the work until the next day. We also take advantage of a cloudy day should such come along.

In about two days after cutting, the time varying according to elimitic conditions, the alikes should be ready to rake. We run the rake opposite to the way the mover was run in order to save the heads as much as possible from shelling. We just rake up enough of the crop that can be handled in the same day, then if it should rain, there is no difficulty in getting it dry without having to turn it.

#### Plain Talks About Factory Milk Supply George Rice, Oxford Co., Ont.

The weak part of the cheese business is the quality of the milk supplied. If 90 per cent. of the milk were good and 10 per cent, poor (I am referring to flavor), it would bring the whole wat down to near the quality of the poorest milk.

There has been practically nothing done to raise the quality of the milk. Of course, there is any amount of talk and lectures but that does little if any good at all, since the man who sends the poor milk to the factory is not likely to attend any meeting where he might hear such talk. If he did attend, he is not likely to be moved out of his rut by good advice. Notwithstanding the problem as it is to-day, the improvement of milk is the simplest thing in the world to do if gone at in the right way.

#### GOOD MILK AT CONDENSERS.

At Tillsonburg we have a condensary that receives A1 milk. Why do the cheese factories not receive the same kind of milk? The condensary people never have any meetings nor any one to talk to the patrons on the care of milk, care of cows, or any other subject? They have no use for "gab" feasts. When the condensar was opened there was a banquet and a ball, which, judging from the attendance, was more popular than a lecture. (Most married men can get a scolding at home).

The condensery people have one man whose duty it is to visit every patron and make sure that the conditions on the farm are right, and that proper care is taken of the milk. The inspector sees to it that the milk is kept in a proper place, away from all foul smells. He sees to it that in the winter time the stables are white-washed and kept clean. Then, also, the company has a man whose dufy

Then, also, the company has a man whose dusy is is to inspect the milk at the factory. They do not depend upon him alone, however, to be sure that the milk is right. They want to see under what conditions the milk is produced; and they have no trouble in getting all the good milk they need. Patrons cheerfully comply with all regulations which, though strict, are not hard to carry out.

All this precaution is found necessary, and that



July 7, 19

in a district

cheese factori

factory could

nade by a ch

do this or the

tell the chees

other place t

and he would

Cheese factorie

that patrons

patrons exhibit

extent. The c

milk than che

the people in th

factories, with

miditions are

properly taken

sold or sent to

be quite indepe

An inspector

The introduction to solve the farm i draining. The ma Walter Day, a bro Not more than two and there is more

formerly a clerk in that he had by n a good knowle ge of the work well.

An inspector as with our cheese fa

90 per cent., at la factories would be pointed and effect to better the qual tories. All intellig are suffering a loss patrons. Protection more necessary now leaves the factory of or four days old. that the cheese will quite so careful wh work of an inspec average with less m of cheese.

If it is desired to while green, the pr It should be made a from the factory bef age. There is a chance Talk is not enough. the quality of cheess point that is causing

Some patrons have points, and have in

#### 10. ls all

from rived

ations a salo ntres towns adopd by their ch by cows ie reproxis und

е аге about down e the dvang. time

( PE

, the e rake order from e crop n if it ing it

#### upply

is the ent. of (I am ole vat k o raise is any s little

ids the attend lk. If ed out ng the of milk if gone

hat reies not densery one to care of use for opened judging than a colding

se duty hat the proper es to it ay from winter clean se duy They do be sure e under nd they ilk they regulahard to

and that

#### July 7, 1910.

in a district where milk has been supplied to cheese factories for years. An individual cheese factory could not do this. If complaints were nade by a cheese maker, and a patron asked to do this or that to improve conditions, he would tell the choise maker to go to Halifax (or the other place that begins with the same letter) and he would send his milk to the next factory. Cheese factories are necessarily so close together that patrons are independent, and the poor patrons exhibit this characteristic to the greatest extent. The condensery is able to pay more for milk than cheese factories, and have a hold on the people in that way.

An inspector should be appointed for cheer factories, with authority to say that if certain regulitions are not complied with and the milk properly taken care of then the milk cannot be sold or sent to any factory. This inspector would be quite independent of any factory. He would need to be a man of tact and firmness.

The inspector of the Tillsonburg condensery was

#### FARM AND DAIRY

committee to look after the quality of the cheese. But that is found to be of little, if any, effect. People do not want to raise trouble with their neighbors, and this committee does not do anything. It is therefore a little worse than no provision at all, as the fact of there being such a committee relieves the cheese maker of the responsibility.

Measures that are good in effect are what is needed, not those that look good in theory. An inspector could cover a considerable territory. Cheese makers could give him a good idea as to who needed the most attention.

#### Ditching by Means of Machinery

Walter Day, Lincoln Co., Ont. The machine, known as the Buckeye Traction Ditcher, is built specially for digging trenches such as are necessary for farm drainage, and in the following paragraphs I will endeavor to conpare its work with that done by hand labor.

In the past history of

drainage there have been many acres of valuable farm land uselessly drained This, of course, is due to lack of knowledge on the part of the farmer in grading the ditch bottom. A ditch bot tom may be graded quite accurately by hand methods, but in the majority of cases it is not done nearly so accurately as the Buckeye Traction Ditcher will do it. The man who operates one of these machines has perfect control over it, and may grade the ditch bottom as true as a surveyor can set the grade stakes by which the machine is governed. Drainage can be done with these machines in

the spring when the ground is so wet that it would be impossible to do it by hand labor. The hand methods are so slow that the water flows into the trench, and makes it impossible to lay the tile, while the machine would dig the ditch much faster, and the tile can be laid and the trench filled in before the water would have time to percolate into the ditch. COST OF DITCHING.

The cost of drainage varies greatly, depending upon the nature of the soil, but in all cases the machine work compares favorably with the manual labor, and in the majority of cases it is more conomical. Only in one case can this work be done cheaper by hand labor, and that is where one or two men are employed at a given price per rod to dig in sandy soil. In this case the process of drainage would be very slow. I have had practical experience with hiring a large gang of men at a given wage per day, and I know that it cannot be done as cheaply in this way as by the machine.

The question may arise here, "How much cheaper will the machine do the work than it costs by manual labor ?" Of course that depends on the goodwill of the man who owns the machine. The actual cost of the machine per day is: Cost of fuel (say \$1.75), cost of three men (say \$6.00), cost of oil (say 75c.), and breakages, which will amount to (say \$1.50), making a total cost of \$10.00 a day.

My machine has dug as much as 175 rods of trench in 10 hours, and made an average of 75

rods a day during last year. If we take that average and figure it out (\$10.00-75 rods), we will find the actual cost to be 13 1-3 cents a rod for digging. If the average cost for digging by manual labor is 30 cents a rod there would be quite a large working margin for the investor. But I do not consider this margin much too large, because these machines cost from \$1,800 to \$4,000 laid down in Ontario. Varation in price of machine is due to the different sizes of machines. If the actual cost of drainage by manual labor is less than 30 cents a rod then the less margin there will be for the man who owns the machine.

ó

The work of the Buckeye Traction Ditcher is so much more convenient and faster than the manual lator, that the man who drains his farm with the machine will have net returns enough to pay the cost, long before the man who waits for manual labor has his drainage completed.

These machines will dig in any kind of soil, and have been known to dig across an old-fashioned log road, while the logs were still quite sound. But where the soil is very stony the work is slower, and the cost greater. With regard to clay and sand, there is very little difference in the speed of digging, so long as both are free from stones.

#### The Advantages of Soiling

S. K. Thompson, Hants Co., N. S.

Perhaps the greatest argument in favour of soiling is that less land is required where these crops are made use of. The common estimate is that one acre of good soiling crops produces as much feed in the season as two and one half acres of good pasture. When the summer silo is used, and good crops of corn are secured, the difference between the two may Le wider.

Besides the saving of money invested in land, there will also be a considerable saving in fencing when soiling is practised. The fencing bills on most farms amount to quite a large sum in the course of a few years. A greater variety of feed is available, and that good all the time in the case of soiling crops, whch results in greater milk yields or greater gains in flesh as the case may be. On pastures much of the feed is wasted from being tramped over Where soiling crops are fed, this waste is eliminated altogether and if the feed is of the right kind, is always palatable.

Another advantage of the practice of soiling which is beginning to appeal to many good dairymen, is that the cows can be kept in the stable during the heat of the day when the flies are bad, the cattle being turned out only at night.

The chief objection usually made to soiling is the increased labor of handling these crops. The real reason why soiling is not practised more extensively is of far greater import, but is seldom heard. It is that many of us lack practical knowledge in the handling of soiling crops. Once we find out the crops to grow, how to grow them, and how to feed them, any other objections will become of little importance.

It is in our own interests to study the subject of soiling crops and make at least a partial use of the soiling system. As the older parts of Canada become more thickly settled and land values advance to a point where our present extensive methods of farming cannot be carried on with profit, the practice of soiling the cattle in the summer months will become more and more common. We believe that in a few years soiling will be a common practice on all the dairy farms of the older provinces.

Bees returning to the hive with full loads of honey and no place to store it, begin to elaborate wax in their bodies and in order to find a new home wherein to bestow their honey and wax, create the swarming impulse. -- Morley Pettit, Provincial Apiarist, Guelph, Ont.



#### A Recent Arrival on the Labor Market

The introduction into Ontario of the traction ditching machine is helping dramatic of the farm labor problem and thereby enable farm. The to do more under dramaing. The machine here shown have the farm into the distribution of the Walker Day, a brother of Prof. W. H. Day, of the Grad in Lincoln County by walker Day, a brother of Prof. W. H. Day, of the Grad of far in Ontario, and here is more work absed of them than they can do. More are needed.

formerly a clerk in a grocery store. Previous to that he had  $\stackrel{h}{\mapsto}$  n on the farm, and therefore had a good knowle ge of the district. He has handled the work well.

An inspector as suggested should work in well with our cheese factory business. I believe that 90 per cent., at least, of the patrons of cheese factories would be glad to see an inspector appointed and effective methods put into practice to better the quality of milk received at factories. All intelligent patrons know that they are suffering a loss from indifferent and careless patrons. Protection from indifferent patrons is more necessary now than ever, since the cheese leaves the factory often nowadays when only three or four days old. The checse makers, knowing that the cheese will be shipped early, need not be quite so careful when taking in the milk. The work of an inspector would result in higher averages with less milk required to make a pound

If it is desired to stop the shipping of cheese thile green, the practice should be prohibited. It should be made a msdemeanor to send cheese from the factory before it has reached a certain ge. There is a chance to legislate on this matter. Talk is not enough. If it is desired to improve the quality of cheese, we must go right to the point that is causing the trouble-the milk supply. INEFFROTIVE MEASURES.

Some patrons have already recognised these points, and have in some instances appointed a



244 The Lawrence-Williams Co., Toronto, Ont.

#### FARM AND DAIRY

#### Care of Work Horses

The greater part of the energy de-ived from feed is expended by the the rived from feed is expended by the horse in doing work. A working horse does not lay on much fat but if he is properly fed he should maintain his weight. It is obvious that as soon as work stops there is no need for more than enough feed to supply sufficient energy to maintain the bodily func-

Feeding an idle horse heavily simply clogs the system with unused material, and, if long continued will produce any number of ill results. An idle orse needs no more than two quarts horse needs no more than two quartes of oats at the most at a feed. In fact, that is just what the big Winnipeg fire teams receive along with hay at night, just what they will clean up. Fire horses are not required to do extremely heavy work and, as a rule, that not very often. So they are com-paratively idle horses.

paratively idle horses. The farm team can easily be fed too much hay. Good hay may not hurt them, but it is a sheer wate, to keep their margers continually crammed full. Boil-d feed, or an occasional bran mash, with a handful of oil meal mixed in with it, will keep the system lossened up and promote a healthy digestion.

There is quite a pronounced lack

## BUY A SV7X MANURE SPREADER OF PROVED VALUE

#### Not an Experiment

OOD MANURE SPREADERS are now so generally recog-I nized as big money makers, time, and labor savers, that the demand has grown by leaps and bounds. The result is that the market has become flooded with spreaders of slipshod quality. Therefore don't be influenced by extravagant claims when choosing your spreader. Look to the actual construction, the materials, the practical points of strength and operation. Look to the experience, equipment and standing of the manufacturer.

#### **IHC** Spreaders Cloverleaf Corn King

Corn King Cloverleaf These spreaders of the IH Cline have proved their value in actual operation in the hands of satisfied tarmers everywhere. The 1010 patterns represent the development of study, experience and practical use. Their strength to withstand the hardest strains, their sure, steady, simple operation, their light draft—these features have been tested by us as well as by the farming world and found right. Don't delay the day of realizing on the full value of every bushed of manure. Get a spreader now—and choose carefully. Buy the spreader of proved value—of uniform high quality. Buy the spreader that is built on the right principle, of the finest materials, by the high est class of skilled workmen, in the best manure spreader works in the world. If you do that, you will get an 1 H C. No other spread-ers have ever done the work as well, as quickly or as easily as the H C line. For no others are so good on any point of construction. You owe it to yoursell to investigate the 1 H C spreader that meets your needs

I H C spreaders are made in various sizes, from 30 bushels to 70 I H C spreaders are made in various sizes, from 30 bushels to 70 bushels capacity, and there is a style and size for every section and condition. Choose to suit your special requirements from the only complete line. Large spreaders for big operations-spreaders for orchards, vineyards-in fact, for every condition. It will be of considerable advantage to write the international agent for catalogues and full infit marrest branch house for these today. Harvester compares, and compare thranch house for these today.

CANADIAN BRANCHES: Brandon, Calgary, Edmonton, Hamilton, London, Mon Ottawa, Regina, Saakatoon, St. John, Winniper, Yorkton.



unanimity of opinion with gard to how horses should be fed. There is no other animal on the farm that must be fed with so much judg-ment as the horse. With cattle, hogs ment as the horse. With so made reg-ment as the horse. With cattle, hogs or sheep a prescribed ration may be outlined and any person capable of following instructions can do the work. following instructions can do the work. This is not the case to so large an ex-tent with horses. Their feed must be regulated by the work done and when work stops the feed should certainly be reduced. On account of the diffi-culty of reducing heres feeding to perimental work in the meat animals. Old Converts ploymen know about old Converts ploymen know about Old Country plowmen know about as much about what a work horse as much about what a work horse needs as any class of men. From No-vember to April, when the work is as heavy as at any other time of the year, the nightly feed of boiled barley is con-

ide nonroy teen or borned barrey is con-sidered as essential. Whether the work be plowing or carting, the teams require heavy feeding and they thrive on the barley once a day. It is hard for us to get a better feed than oats, and it takes a big horse and heavy work to require more than gallon of this cereal at a feed. Th This amount of oats three times a day with a hoiled feed at night once or twice a week should keep almost any team in good working condition.

#### Grain Rations for Work Horses

There is no other grain so safe for orse feeding as the oat. This safety There is no other grain so safe for horse feeding as the oat. This safety is due largely to the presence of the oat hull, which causes a given weight of grain to possess considerable bulk. Because of this there is less liability of mistake in measuring out the ration and furthermore the digestive track under usize of east crains sufficient to a quantity of oat grains sufficient to produce serious disorders. Another Another produce serious disorders. Another distinct advantage of this grain as a feed for horses, is that when nurtured on oats horses show mettle to an ex-tent which ordinarily cannot be reach-ed by the use of any other feeding stuff.

Oats, however, are often an expen-sive horse feed and they can be sub-stituted profitably to a greater or lesser extent with other grains and by-products. The Iowa Experiment Station has for the past two years carried out some experiments to determine the value of corn, oil meal, cotton the value of corn, on meal, coccon seed meal and gluten feed in work horse rations. From the results ob-tained in these experiments, the fol-lowing conclusions have been drawn: 1. The health, spirit, and endurance of work horses were the same when fed corn with a moderate amount of oil meal, or gluten feed or cotton seed meal; as when fed a corn and ots ration supplying a similar nutritive

ratio 2. The ration of corn and oil meal 2. The ration of corn and oil meal maintained the weight, fields, and ap-pearance of the horses fully as well and with less expense than the orn of similar nutritive value composed of corn and oats. 3. With corn at 50 cents a bush., oats at 40 cents, and oil meal at \$32 ten the average asymp in the daily

a ton, the average saving in the daily expense of feed for each work day amounted to 1.6 cents by the use of oil meal in the place of oats.

4. A brief trial of 91 days with gluten feed indicated that while it was capable of giving good results the ration containing it was not as palat-able as the oil meal ration, and cost

able as the oil meal ration, and cost a triffe more a pound when gluten feed was worth \$28 a ton. 5. Cottonseed meal gave somewhat better results on the whole than oil meal. The ration containing it was fully as palatable and as efficient in maintaining the health and weight of the horses, it was less laxative, a little cheaper with cottonseed meal at \$30 a ton. 6. With corn at 50 cents a bushel

#### July 7, 1910.

and oats at 40 cents, oil meal had a and oats at 40 cents, on mean had a value of fully \$60 a ton for feeding to work horses, with cottonseed meal worth a trifle more still. At the usual prices of these feeds their use resulted in a substantial lowering of the cost of maintaining the horses

#### Dairy Calves After Milk Stage

D. H. Otis, Madison, Wis.

*v. n. vis, audison, Wis.* When the skim milk diet of the calf is stopped at any time from six to 12 months of age, it should be remem-bered that the calf is deprived of a nitrogenous feed and its place should be taken by some nitrogenous grain or be taken by some nitrogenous grain or roughage. The tendency of the dairy calf to get too fat depends not only upon its temperament but also upon its feed. Avoid too much corn. For grain, oats and barley are good; for roughage, bright clover or alfalfa hav roughage, bright clover or alf-fin hav with corn silage to give succulence and variety. The aim should be to keep the calf in a healthy thrifty and growing condition. Under proper treatment the calf should continue to grow until four to six years old. Every effort should be nade to de-velop a large stomach and consequent-ly large canacity. huld musela and

velop a large stomach and consequent-ly large capacity, build nusele and good hone, but do not allow it to get too fat. The good dairy cow must handle large amounts of feeds. This she should learn to do while young. For this purpose roughage exercises the digestive apparatus more than toni-centrates. There are some theory or that with a good silawer of clover or that with a good silawer of roots for alfalfa with corn silage or roots for succulence, no grain is necessary from the time the calf is weaned from skim milk until she drops her first calf. There are others, however, and prob-ably these include the larger number of our progressive dairymen, who think a little grain should be given daily to keep her stomach accustomed to handling grain.

Size depends much upon heredity. but even more upon liberal and judi-cious feeding. It is impossible to cious feeding. It is impossible to starve good dairy qualities into a growing heifer, but many a promising heifer has been starved into a poor cow.—Bulletin No. 192.

Cold Storage.—The management of the Western Fair, London, Ont., have for some years had under considera-tion the installing of a cold storage system in their already well equipped dairy building, but not until this year has the plan been adopted. Workyear has the plan been adopted. Work-men are busy at the present time with this work and when the exhibition opens this year, exhibitors and visit-ors will find one of the best and most up-to-date equipments for cheese ex-hibits found anywhere. Five silver cups have been kindly donated toward the cheese department and one to butter making competition, in a butter making competition, in addi-tion to the cash prizes offered, all of which should make the dairy building one of the most attraction one of the most attractive places this year's exhibition.



July 7,

#### An () Oxford famed for t of its farm



found withi and perhaps, the Holstein Bollert, of C the Holstein ciation of Ca Maple Gro lert, is situate ment in the county. The county. The of level, rich section. A herd at one Maple Grove, introduced th county. Sin been kept and



#### Subs

The farm buil and works the f President of the first Holsteins in

numbering about bulls are kept in ing any frequent but the very be Mr. Bollert; the are six and 10 y The milk from heese factory fro

cheese factory from During the winte home. The cream ery, thus there is every month of th venience on any f Two silos are in one for winter an summer. Mr. Bol trated herewith. j

trated herewith, i is 51 feet from the faces the south a one a hog pen, thouse. The built there are built they are, provide yard.

HOLSTEINS IN Now that Holste deservedly popular to learn of the ti had to endure. As row Holstein bi hoe from 1890 to 11 the general deput through strong pro-disfavor that they

#### 10.

had a ling to meal meal susual esulted ne cost

#### Stage 8.

he calf s to 12 rememd of should rain or e dairy o upon 1. For od; for lfa hav culence be to fty and proper inue to

ld to deequentto get w must s. This young xercises ian con o think lover or oots for ry from om skim st calf. number n, who e given ustomed

eredity nd judi-sible to into a romising a poor

ment of ment of at., have onsidera-storage equipped atil this d. Work-ime with shibition nd visit the most neese ex-ve silver d toward ae to the in addi-ed, all of building places of

## EY. GINE

npler than other on narket. can learn n it N 10 UTES

n't easily t out of kilter. OWER IS RANTEED r Bookle

UMP CO

#### July 7, 1910.

factors in the well deserved place held by Ontario's fore-most agricul-tural counties. Many herds of

Mr. H. Bollert Stound within the bounds of Oxford, and perhaps, one of the most noted is the Holstein herd owned by Mr. H. Bollert, of Cassel, who is president of the Holstein-Friesian Breeders Asso-ciption of Cassel.

the Holstein-Friesian Breeders Asso-ciation of Canada. How is off in the morning. The cover is allowed to lie in the swath and left in windrows all night. If we have in the cover is allowed to lie in the swath and left in windrows all night. If we have the cover is allowed to lie in the swath and left in windrows all night. If we have the cover is allowed to lie in the swath and left in windrows the next here of level, the solid characteristic of that let it dry in the maxt morning. We section. A Shorthorn grade dairy maple Grows, but in 1883, Mr. Bollert introduced the first Holsteins into the county. Since then Holsteins have been kept and bred, the here generally hay. As we do not use a hay loader,

An Oxford County Farm Oxford County, Ont., has become famel for the wonderful annual output of its farms. The progressive spirit of its farms. The progressive spirit of its farms of its farmers of the farm of the farmer of the farms of the farmer of the

The Clover Hay Harvest

The Clover Hay Harvest Therard Dunford, Peterboro Ca, Ont, The main points to be observed in getting clover cured into a nice pal-atable hay are to cut it at the right time and cure it well without scori-ing. We aim to cut our clover crow when in full bloom and let it cure so the source of the source the des is source of the source of the source until the aftercious all night. If the are on a source of the source of the source of the source the des is very heavy, it is will not be raked until the next for source of the area to cold and haul in the after-tion. More that clove areas latter one of



## Substantial Up-to-date Farm Buildings on an Oxford County Farm

The farm buildings at "Maple Grove," are here shown. Mr. H. Bollert, who owns and works the farm on which these buildings are located, and who is now the President of the Holstein-Treisan Breders' Association of Canada, introduced the first Holsteins into Oxford Co., in 1883.

Answ flatory from May to Novembra, The reversant is separated as the the reversant is separated as the the reversant is separated as the reversant is sep

Skim Milk is a Cheap Feed for Calves but should be fed carefully in imited quantities and only the state of the state of the participation of the state of the state of the state of the participation of the state of the state of the state of the months or a year. Factory skin mile while the should always be pasterized to mile the spread of tuberculosis. The best skim milk is that which is fresh from robin Stock Farm, Ontario Co., Ont.

charcoal may be made, of which the the separator and still warm. Experi-hogs are very fond when it is mixed ments show that it is only one fourth any mixture of sales. Almost as expensive to raise a calf on skin one of them should cause hogs harm. -W. F. Skim Milk is a Cheap Feed for

7



UD SP 3

PAL SUBJECT

ISNEPAN

MOST ready ro fings require special painting and coating, and unless this is done regularly, you are sure to have

leaks and trouble right along. If you use Amatite, nothing of the sort is re-quired. You will have real

roof protection without painting of any kind. Amatite is made to stay

waterproof and give protection year after year, without any thought or care on your part.

Firs !- Because it is waterproofed with Coal Tar Pitch.

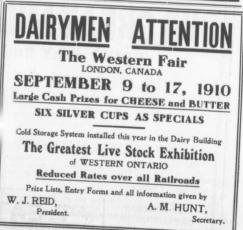
Second-Because it has a real Mineral Surface.

Amatite, owing to these features, is the most economical roofing made. Its first cost is low, and you are saved all future expense for repairs or paint because it will need neither.

If you haven't seen Amatite, write for a sample to-day. From it you will very quickly understand why it doesn't require painting; why it does not leak; and why it saves you money.

Address nearest office to-day.

THE PATERSON MANUFACTURING COMPANY, LTD. Toronto, Montreal, Winnipeg, Vancouver, St. John, N.B., Halifax, N.S.



# HE NEX

## BARGAINS FOR THE SUMMER EARANCE OF JULY AND AUGUST SALE CATALOGUE E FOR YOUR COPY AT ONCE

## GREAT MIDSUMMER SALE FROM JULY 2nd TO AUGUST 31st

#### THIS GREAT EVENT

is now in full swing, and every person who does not take advantage of it will be deprived of some of the most wonderful bargains ever offered by **>T. EATON CO**. As far as our regular customers are concerned, it is an event—to which they look forward—of which they take advantage—by which they save money.

### PROFIT BY THEIR EXPERIENCE

Write to-day for a copy of this Bargain Listing Catalogue, and when it arrives, make up an order from its pages, mail it to **EATON'S**, and you will receive values such as you have never obtained before

#### OUR VALUE GIVING

is not confined to one or two departments, but embraces numerous items from every section of our Store. Our buyers have secured the most seasonable goods especially for this Great Sale, and they have purchased them at prices which enable us to save you money in every instance. A trial order will convince you-send us one.

#### OUR GUARANTEE

absolutely protects you in every instance. If you are not perfectly satisfied with our merchandise, our values, our prices or our service, return the goods to us at once, and we will refund your money in full and pay all transportation charges

0.

LIMITED

CANADA



THE EATON MAIL ORDER SERVICE MEANS ECONOMY FOR YOU

#### July 7,

Reseeees HO \*\*\*\*\*\*\*

#### Facts a

Since lead ly into use edge of th poison is ne to use it. in Canada f arsenate. 1 two forms, a In the paste 49 per cent. content of an aration is n hought in th In bulletin

Department of of 18 sample parts of the arsenic conte 12.44 per cen sample was w much as th this wide vari need of some evident.

As the pur the quality of he Luys, it is facture his le Furthermore much cheap article.

The formula made lead ar 151 of the On lege is: Arse lege is: Arse acetate of lea gallons. Disso and the acetat then pour in water.

This spray i cheaply than i bought directly he bought at insecticide will than Paris gree

#### Insects a A. B. Cordley

To understand which underlies proper remedy t ticular insect. that practically vided into two g Group I.—Th that have bitin

dibulate insectschew and swallo plant or other s they feed. Gras fea-beetles, strip codling moth lar amples of this g Group II.—Th with beak-like su haustellate insect fea-beetles,

plant or animal and suck up its neither chew nor structural tissues woolly-aphis, hop aphis, black ch aphis, black che Scale, etc., are g

group. In general, inse Group I. may be ling or dusting plant upon which poisonous substa which belong to G so poisoned since food from beneath

8 500 not be made to ea must be destroyed other substances w

Elm Grove I

Offers fc. sale 20 Rock hens at \$1.00 eac Brown Leghorns, \$1.0 one year old Rouen ( J. H. RUTHERFORD, BO

Telephone Bolton

#### \* HORTICULTURE \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Facts about Lead Arsenate

Since lead arsenate is coming large-Since lead arsenate is coming large-ly into use as an insecticide, a knowl-edge of the characteristics of this poison is necessary to all who propose to use it, clearly to all who propose to use it, clearly the second second second in Canada for the composition of lead arsenate. It is sold commercially in two forms, as a powder and as a paste. In the matter there must here a birth as In the paste there may be as high as 49 per cent. of water. Therefore the content of arsenic is low and the prepconcent or arsenic is low and the prep-aration is not as valuable as when pought in the dry form. In bulletin No. 205 of the Dominion Department of Agriculture an analysis

Department of Agriculture an analysis of 18 samples obtained from various parts of the country w w e.v.. The arsenic content varied from 29.9 to 12.44 per cent. At this rate, the best sample was worth more than twice as much as the second sample. From much as the second sample. From this wide variation in composition, the need of some Government standard is evident.

evident. As the purchaser cannot be sure of the quality of the lead arsenate which he Luys, it is adviable he manu-facture his lead arsenate at home. Furthermore home-made arsenate is much cheaper than the commercial article. article.

article. The formula recommended for home-made lead arsenate in Bulletin No. 154 of the Ontario Agricultural Col-lege is: Arsenate of soda, 10 coss; acctate of lead, 24 coss; water, 150 gallons. Dissolve the arsenate of soda, and the acctate of lead separately and the non-solve the arsenate of soda. then pour in the required amount of wate

This spray is obtained much more cheaply than if the lead arsenate is bought directly. If the materials can be bought at a reasonable price, the insecticide will be as cheap or cheaper than Paris green.

#### Insects and Insecticides

A. B. Cordley, Oregon Experiment Station.

To understand the general principle which underlies the selection of the proper remedy to be used for any particular insect, one has only to know that practically all insects may be di-

that practically all insects may be di-vided into two great groups. Group I.-.This includes all insects that have line insecting mouth parts-man-dibulate insecting mouth parts-man-dibulate insecting mouth actually chew and synthese upon which actually eleven and striped encumber-beetles, fea-beetles, striped encumber-beetles, amples of this group.

amples of this group. Group II.—This includes all insects with beak-like sucking mouth parts— haustellate insects—which pierce the Must be accurate succing mouth parts-huistellate insects—which pierce the plant or animal upon which they feed and suck up its juices or blood but neither chew nor swallow any of the structural tissues. The apple-applis, wollv-applis, hop-long, green applestructural tissues. The apple-aphis, woolly-aphis, hop-louse, green apple-aphis, black cherry-aphis, San Jose Scale, etc., are good examples of this

In general, insects which belong t Group I. may be poisoned by sprink-ling or dusting the surface of the plant upon which they feed with some piant upon which they reed with some poisonous substance; but insects which belong to Group II. cannot be so poisoned since they secure their food from beneath the surface and canfood from beneath the sufface and can-not be made to eat the poison. They must be destroyed by gases, washes or other substances which act externally upon their bodies.

.

**Elm Grove Poultry Farm** Offers fr. sale 20 one year old Barred Rock hens at \$1.00 each; also 15 Rose Comb Brown Leghorns, \$1.00; and a number of one year old Rouen ducks, cheap.

J. H. RUTHERFORD, Box 62, Caledon E., Ont. Telephone Bolton.

All insecticide substances may therefore be arranged into two general

groups. Group I .- Food Poisons .- This group includes, principally, the various ar-senicals, such as Paris green, London purple, Scheele's green, arsonate of soda, arsonate of lead, etc. These poisons are all valuable against insects which halong to Grunn L and feed

poisons are all valuable against insects which belong to Group I.a. and feed exposed upon the surface of plants, but are practically valueses against those of Group II. Group II.—Contact Insecticides.— This group includes a great variety of substances which act externally upon the bodies of insects either as mechanical irritants or caustics or to smother them by closing their breath-ing pores, or to fill the air about them ing pores, or to fill the air about them ing pores, or to nil the air about them with poisonous gases, or simply as re-pellents. Soap, sulphur, tobacco, in-sect powder, kerosene emulsion, crude petroleum, the lime-sulphur wash, sect powder, kerosene smulsion, crude petroleum, the line-sulphur wash, resin washes, hydrocyaine acid gas, and carbon bisulphidiane acid gas, the most valuable insection and biting insects when for any result biting insects which work beneath the surface of the soil, or as horers or miners in wood, leaf or fruit or in stored products, or as a minimal par-sites, or household pests.—Bulletin No. 108.

\* POULTRY YARD Sell Ducks at Ten Weeks

#### J. J. Brown, Hochelaga Co., Que.

Ducks have begotten for themselves Ducks have begotten for themselves reputations for their glutteny and on that account and owing to the indif-ferent manner in which they are of dinarily managed, they are thought to be particularly profitable. Nor are they profitable unless properly managed.

The market duck, as ordinarily handled, is kept much too long. It should be sold when 10 weeks old. The general practice however, is to hatch them in the spring and keep them unthem in the spring and keep them un-il 20 weeks or more of age. Managed in this way, ducks stay with their owners long enough to eat up all the profit and then they must be sold for less money than they would realize at 00 works old Kant until this between less money than they would realize at 10 weeks old. Kept until this latter age, they must go into cold storage. Green ducks readily command 28 cents a pound when 10 weeks old at methods.

cents a pound when 10 weeks old at this season of the year. They should then weigh three wears are been as the borhood of 90 cents to \$1.00 each. Marketed in the fall these same ducks would co-arman donly 80 cents or \$1.00 a pair which is considered a very fair

Every advantage should be taken of the ducks' propensity for feeding. They should be rushed along and dis-posed of at the proper season when they will realize the highest returns.

#### Chicks Have Sore Eyes

My chicks that were hatched out on une 6th have sore eyes. In the morn-By chicks that were hatched out on June 6th have sory eyes. In the morn-ing they cannot open them, and I have to drop water on the lidshead barries of the stuck together. Have fed the seem to be stuck together. Have fed the seems to be the source of the second second barries been mixing bran with oorn meal and reading it wet. Please give cause and reading it wet. Please give cause and alight cold. The feed which you are giving them is not very suitable to young, growing chickens. Corn meal so to fattening and we bran is too

is too fattening and wet bran Is too fattening and wet bran is too bulky to be properly handled by them. On no account should wet grains to fed to young chickens. The following mixture would be me you have been feeding: Mix sifted ground oats, cracked corn

and cracked wheat in equal propor-tions and feed dry.-J.J.B.

#### Management of Turkeys

Mrs. W. J. Lockman, Wentworth Co.,

The second secon

pen. The pen I used when I was raising turkeys in considerable numbers was about 10 x 3 x 3 feet. The back and sides were tight. The top projected out in front to give shelter from the rain and hot sun. The front was of slats which permitted the young tur-keys to go out at will.

slats which permitted the young tur-keys to go out at will. The first meal I gave them consisted of bread soaked in milk and squeezed out quite dry. Hard boiled eggs also were fed. The feed was given on a Loard outside of the pen, never in the Loard outside of the pen, hever in the pen. No more was given at a time than they would eat quickly. Onion tops and dandelion leaves cut fine are greatly relished by young turkeys. These were given occasionally. Curds mixed with shorts and a little sweet milk were fed after the turkeys were a few days old. Sloppy food should never be given

Sloppy food should never be given to young turkeys. When they will eat it, give wheat screenings one a day. I consider it far better to be the turkeys roam when they are 10 oc 12 days old and the weather fine. I see to it, however, that they are in safe ountrets over nicht. They will see to it, nowever, that they are in safe quarters over night. They will soon be able to find their own living. It is well to give an occasional feed of wheat to coax them home at night.

To the older turkeys, I feed wheat screenings, corn, ground oats and shorts mixed with milk or water. Give fresh water two or three times a day in clean dishes. Skim milk or butter milk may be given when it is avail-

able. Whenever any of the turkeys begin to 'droop' in the autumn I give them a small teaspoord castor oil followed by a liver pill the castor after; scald the milk they drinninght give only dry grain or dry brad give only dry grain or dry brad tirds isolated. When any vie, I bury tirds isolated. When any die, I bury them deeply.

Heavy laying flocks can use oil, espe-cially if they are confined. Add to their grain mush a handful of oil-meal for every 30 hens every other day and see how well the gloss of their plumage keeps up. A faded out plumage either indicates lack of oil in the system, heavy drain through laying or both.

The hen furnishes a manure rich in nitrogen, and to get the most benefit out of it there should also be applications of potash and phosphate. Wood ashes will supply the potash, but wood ashes and hen manure should never be mixed before they are applied. Kain-i will supply the potash and the state of the state it will supply potash, and can be mix-ed with the manure, it having a ten-dency to conserve the ammonia. Lime should never be mixed with the manure



THE GALT ART METAL CO.,

#### FARM AND DAIRY AND RURAL HOME

Published by The Rural Publishing Company, Limited.

#### and With

I. PARM AND DAIRY is published every Thureday. It is the official organ of the British Columbia, Manitoba, Essietarn and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of the Oanadian Hoistein, Ayrshire, and Jar-sey Cattle Breeder' Associations.

189 Unitle present Associations. 2. SUBSCRIPTION PRICE, \$1.0 a year, strictly in advance. Great Britain, \$1.0 a year. For all countries, except Canada and Great Britain, add 50c for postage. A year's subscription free for a club of two new subscribers.

ew subscribers. 3. REMITTANCES should be made by ost Office or Money Order, or Registered etter. On all checks add 20 cents for ex-Post Office or Money Order, or Re-Letter. On all checks add 20 cents change fee required at the banks.

change for required at the banks. 4. CHANGE OF ADDRESS. — When a change of address is ordered, both the old and new addressee must be given. 5. ADVERTISING RATES quoted on ap-plication. Copy received up to the Friday preceding the following week's issue.

6. WE INVITE FARMERS to write us on ny agricultural topic. We are always leased to receive practical articles. CIRCULATION STATEMENT

CIRCULATION STATEMENT he paid subscriptions to Parm and rry esced \$300. The actual circulation each issue, including copies of the including copies of the including copies, varies in arrears, and sample copies, varies original relation of the particular worm detailed satements of the dress in of the paper, showing its distribu-nic of the paper, showing its distribu-nic by countries and provinces, will be only accustly of the second second second second in the paper second second second second on the paper. The Dairy est of each aper set The 8.

#### OUR PROTECTIVE POLICY

Mailed Free A: Fequence. OR PROTECTIVE POLICY We want the readers of Parm and Dairy. to read the search of the search and t FARM AND DAIRY

#### PETERBORO, ONT.

#### JUDGES WHO CAN GIVE REASONS

Agricultural fairs are deserving of government support only in so far as they are educational. Great educational possibilities exist in all agricultural fairs, but it is well known to all that these possibilities are often great or small. left undeveloped. Almost, without exception, everyone who attends a fair is interested in live stock. Herein lies probably the greatest opportunity for educational work, and it devolves much responsibility on the part of those who act as judges.

The live stock judge, worthy of his appointment, should have such knowledge and experience as will enable him to place the awards according to present day demands, and what is looked for in a representative of the class of stock to be judged. He should be able to make such placings, and furthermore be able to tell the on-lookers, and at least the exhibitors, qualities and characteristics which just why he made such placings. In other words, he should give reasons Right is bound to prevail, and the for every placing made, and give them in a way such as all who would may hear.

#### FARM AND DAIRY

ists in Ontario, has much to commend it. On the whole, satisfaction is given by the judges sent out by the Fairs and Exhibitions Branch of the Department of Agriculture. But a percentage of the men sent out each year as judges, while they may be capable of placing the awards, fall much short of living up to their obligations when it comes to giving reasons. Men capable of doing the work and telling why in an acceptable manner, are not overly numerous and are not hankering after appointments. There is yearly becoming an increasing number of such men available, however, and these men should be sought out for the work, and given circuits of greater length than has

vears. The short courses in live stock and seed judging, which have been held in various sections of the province during the past few years, owe their popularity to the helpful nature of the instruction given. The fall fairs can be made to approximate these short courses in usefulness, if judges are sent out who can, and will, give reasons, and explain the merits of the individuals brought before them. With such men, there would be fewer mistakes in placings, and both exhibitors and spectators would have a better understanding as to the merits or defects of the stock before them.

become the custom in Ontario in recent

#### FARMERS LEARNING TOO MUCH(?)

Since launching its campaign early last winter in the interests of accurate cream testing, Farm and Dairy has received some very frank letters from creamery managers relative to the stand taken. Varied and various have been the charges made. These have run all the way from the contention that we took a narrow view of the situation, to the view that we were quite lacking in information regarding the matter in question. Others again, while inferring that Farm and Dairy was right in its contentions. stated frankly that we were telling the

farmers too much. These latter claimed that as a class, farmers are of a very jealous disposition, and disposed, even when fairly generous, to grudge the other fellow his toll, be it

Farm and Dairy has always taken the stand, that the farmer cannot know too much about any business in which he is concerned, and in which he is a vital factor. It is because some farmers are not so well acquainted with certain problems in which they are directly interested as they should be, that Farm and Dairy has always endeavored to give, and will continue to give, the farmer all the light possible on such questions, and will not with-

hold anything that he should know. Many farmers are kept in darkness as regards some phases of their business. This accounts for some of these are sometimes attributed to them. creamery man, or any other man, who is counting on making profits from his business because of the lack of

whom he does business, is taking a this fact at once and seek to put his business on a firmer foundation, where it will be secure, notwithstanding any wind that blows.

#### GIVE CO-OPERATION & FAIR TRIAL

Although the Co-operative Fresh Egg Circles around Peterboro are scarcely organized, their members having only started to ship their eggs, requests are being received already from other sections for aid in starting similar circles. Farmers all over Canada are watching this new co-operative movement with deep interest. This shows how important it is that each member of the Peterboro circles shall realize his or her responsibility in the matter of making the movement a success. This co-operative movement can succeed only through the members working hand in hand. They should see that the scheme is given a thorough trial.

Already the price of eggs has been marked up to 20 cents in Peterboro as the direct result of the movement. Should half of the members leave the circles for the city, where perhaps they might get the same price, it would leave the others in a position where the business could not be handled. Prices then would decline once more. Only as the eggs can be handled collectively and in quantities can the business be made worth while.

It must be recognized that the cooperative movement is responsible for the increased price, for there would be no such increased price had it not been for this movement. The high average price is what all are after and this can be gained and maintained only by working hand in hand together, members of each circle, and of all the circles, working harmoniously as one.

#### QUEBEC NEEDS A GOOD FARM JOURNAL

Some months ago Farm and Dairy pointed out that the farmers of the Province of Quebec needed a strong agricultural paper published in French and conducted on the same basis as the farm journals printed so successfully in the other provinces of Canada. The only agricultural paper now published in Quebec is one issued under the auspices of the Provincial Government, which is published only once a month and which lacks many of the features of a live agricultural paper.

As long as the Quebec Government continues to publish this paper, no private company can hope to make success of a farm paper in that field. Had the Government not been a factor in the situation there is reason to believe that one or two private companies would have started aggressive farm papers long ago.

Henri Bourassa, the leader of the Conservatibe Opposition in the Quebec Legislature, brought the matter up for consideration at the last session of the Quebec Legislature and showed clearly the need for a good agricul-The expert judge system, as it ex- information on the part of those with tural paper and the mismanagement of such a meeting as suggested, just

#### July 7, 1910.

connected with the existing publicagreat risk. He may as well recognize tion. In this connection, Mr. Bourassa pointed out that farmers in the eastern townships, who were getting the Journal of Agriculture, found it advisable to subscribe for Farm and Dairy in addition, in order that they might be kept posted on agricultural matters.

> If agriculture is to make the pro gress in the Province of Quebec that is desirable, it is necessary that the Province shall be supplied with one or more live agricultural publications. The matter is important, and it is to be hoped that the Government will recognize this and afford an openi for private enterprise to enter the field.

#### A CONFERENCE NEEDED

Now, that we know from the report of the Dominion Swine Commission that the Danish Government has done more for its farmers in the matter of encouraging the production of the best class of hogs as well as in their marketing than has ever been attempted by any of our Canadian Governments, Dominion or Provincial, the question confronts us, what are we going to do about it? Is the situation going to be allowed to remain as it is or are we going to make an effort to bring about the concerted action that is required to effect the improvements we now know to be necessary? Just now, while the price of hogs is high and farmers are rushing into the production of pork, the need for action may not seem so apparent as it did a year ago. We know from experience, however, that it will not be more than two or three years before prices will again decline, and we will again find our farmers giving up the production of hogs. The Danes have succeeded because they have stood by the business year in and year out. We will never hold our own in competition with them until we adopt the same policy.

If the report of the Swine Commission is to be of practical value, further action is necessary. We would like to see Hon. Sydney Fisher call a meeting of members of the Dominion Swine Breeders' Association, of our Canadian packers, officials of our experiment stations, and others who may be interested, with the object of getting them to consider and report on what they believe now needs to be done to bring about an improvement in existing conditions. Now, that our farmers have good reason to believe that our Canadian packers are not the unscrupulous financiers that they have been painted, such a meeting as we suggest would be likely to be more harmonious than any we have had in the past. We feel that further experiments in the production of hogs are necessary, and that the time is now ripe to bring about a concerted har-70 monious action on the part of all interested in the bacon trade of Canada. Until we effect a union of forces, such as exists to a large extent in Denmark, we need not expect to regain the ground we have already lost in the British market. The Dominion Government could well afford to meet the expenses connected with the holding

#### July 7,

as it did wit stock confer the past.

#### A Well

Our front week, shows the farm stal farm, York farm, York the convenie may be gain plan reprod to Farm and his cattle, M stable is very have to carr ception of the very far from are watered the stable as we may draw

The water with a gasoli is also used for the barn. M the barn. before being gasoline engi for cutting th the grain, p when we separ is used to tur

"As will be our dairy is s room. We do now as it all



faction to ours Dairy Co., in 1 "Our dairy he part of which a We are workin bred Holsteins heifer calves, head. We com foundation stoc have been very good animals w records, as well cessful in the ago winning sec last year captur herd, besides wi of individual fir

#### **Speaking Fa**

Every little light which sp tones of the val the dairy farme letter is just rec ment of Agrico Mr. George Wise which reads as fo that I was led t are doing though second ye cow's doings. I difference in th creamery, and of should find the c markable gain months of 1910. ary 1st to April ing nine cows a for cream sold! same period, we cows and sold

ica Issa

tern

the

ad-

and hey

ural pro that

the

one

ons. s to

will i "m the

port

sion lone r of best

narpted nts, tion

o do o be

we pout ired

now

low,

and duc-

may

year low-

two gain

our n of

beness

ever

hem misfur-

all a nion our ex who t of

t on

be

nent

our

lieve

t the

have we

nore

d in

peri-

are now

ada.

such Den

gain the

Gov t the

ding just

har-

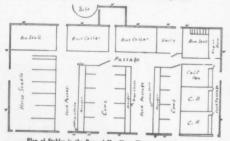
#### A Well Kept Farm Stable

A Well Kept Farm Stable Our front cover illustration this week, shows a part of the interior of the farm stable on Mr. Chas. Water of farm, York Co., Ont. Some its stable plan reproduced herewith. Writing to Farm and Dairy of his stable and his cattle, Mr. Watson says: "Our stable is very convenient. We do not have to carry anything, with the ex-ception of the ensilage and that is not very far from the cattle. The cattle are watered from individual basins. "It ps in different convenient parts of the stable are available from which are watered for mindue for work around before being given to the cattle. The wind for all other work around the barn. Most of our feed is cut passine engine. This engine the grain, pulping the roots, and when we engarate our milk, the engine to reating the feed and for grinding the save state to turn the soparate. "Are will be seen by the diagram, the

as it did with the fruit, dairy and live stock conferences it has arranged in the past. The provided of the part o a mousehold of nine persons, last year, we bought our butter. These are ac-tual facts. The only difference in feed from last year is that I have fed bran extra all winter, but I have sold of shaw made a good showing the cows pickemonths of the year. The cows pickemonths of the year. The cows pickemonths of the year. The show it and solven the year is a show it and solven the year. The cows pickemonths of the year. The show is a solven the year is a winter quarters of the year is a winter quarters of the year. The sides the butter used at home, made an extra hundred dollars in four months with a smaller hear in four months with a smaller hear the show which cows to keep and the fat that records are kept induces the own-er to look after the heard better in every way. Cow testing pays.—C. F. W.

#### The Digestion of the Horse

is also used for all other work around the barn. Most of our feed is cut before being given to cutle. The Drigestion of the Horse for cutting the feed the cutle. The for cutting the feed for grinding the grain, pulping ather for grinding when we separate our mik roots, and is used to turn the separate our dary is situated near the engine room. We do not separate our mik fritten as well as loss of food in now as it all goes, with much satis-



Plan of Stables in the Bara of Mr. Chae. Watson, York Co., Ont.

Fina of Stables is the Bars of Mr. Ches. Watses, York Co., Out.
faction the ourselves, to the Farmers',
Dury Gairy Lord consists of 20 head,
"Our dairy hord consists of 20 head,
we are working up a herd of purce
We are working up a herd of purce
head. We commenced with the best
foundation stock we could get and
have been very successful in getting
good animals which are making good
records, as well as being very successful in the show ring-two years
ago winning second for our herd and
hard, besides winning a big majority
of individual first."
We are apturing the first for our herd and
hard, besides winning a big majority
of individual first."
Kennox College, Honkinton Taxe.
A.

#### Speaking Facts about Cows

Speaking Facts about Cows For y little while facts come to hight while speak in far-reaching the dairy farmer. For instance, and the house end of the line." Some search are given dry line ends the house end of the line." Some search are given for judging the dairy farmer here is a great the house end of the line." Some search are given for judging the dairy farmer here is a great the house end of the line." Some search are given for judging the dairy farmer here is a great the house end of the line." Some search are given be without Farm and the bout farm and dairy work ont. The search are given and be are many bistories the search are given be without farm and the bout farm and dairy work ont.

Teaching Agriculture in Schools "Outlines of Agriculture in Rural Schools," is the title of a booktet by C. M. Evans, Director of Agriculture, Lennox College, Hopkinton, Iova. As the name implies, it gives a sugges-tive outline of courses for teaching in schools. It is designed to heach ag-tive outline of courses for teaching in schools. It is designed to heach ag-tive outline of the author, to get the as suggested for asking the school are supposed, in the school are supposed, in the school are supposed, in the school are suggested for asking the school are suggested for a school and the as a suggested for a school are the astrone of agriculture and the astrone of agriculture and places the Lurden of agriculture and places the Lurden of agriculture and places the Lurden of the line." Score cards are gibter for judging orn, potaces, while, outle, builter, horses, swine and shoep.

#### FARM AND DAIRY



Your attention is called to OUR SPECIAL SUMMER OFFER FOR CHEESE MAKERS AND BUTTER MAK-ERS. A LITTLE EFFORT on your part will result in your being able to ADD SEVERAL DOLLARS TO YOUR SUMMER INCOME. Is every patron of your factory taking Farm and Dairy? If not, why not? Perhaps you could induce them to subscribe. They would then be put in close touch with all that is live and up-to-date in dairy matters this summer. No better way to educate your patrons to the best way to care for their milk, than to induce them to read Farm and Dairy. Many makers are working for this end this season, realizing that they themselves will benefit thereby.

Get into line to-day. We will gladly send you samples free for distribution at your factory. A most liberal cash commission on each new subscription.

#### CIRCULATION MANAGER. FARM AND DAIRY

PETERBORO, ONT.



## Well Drilling I drill a 41/2 inch hole; work don

1 drill a  $4^{\circ}_{\lambda}$  inch nois: work done summer or winter; pumps and fixtures always on hand. I guarantee water. Fitteen years experience. Eight gaso-line and steam drilling machines Time given if needed by notes. Worth your while to write for terms and prices this year, to ARTHUR CAMPBELL

L'Orignal, Ont. Phone No. 8



#### FARM AND DAIRY

\* Creamery Department The series of the serie Flavor Controlled by Culture\*

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

The flavor of butter under favorable conditions can be controlled largely by means of a culture. The butter under favorable conditions of cream ripening and manufacturing will have the flavor of the starter.

In preparing the starter it is advisable to start with a pure culture such as can be had from our dairy schools or from any of the dairy spe-cialty houses. These cultures furnish pure seed (bacteria) that develop lactic acid. If one buys pure seed (pure culture) he should give that culture the Lest care in order that it be kept

pure. Cans. 20 inches deep, are recom-mended as vessels suitable for the cul-ture. A wooden box equipped with steam and hot water attachments is recommended in which to keep the mother culture and cans of starter. The temperature can then he con-The temperature can then be controlled from day to day. USE THE BEST MILK FOR STARTERS

For the starter select the best milk from what comes to the factory. Do from what comes to the factory. Do not rely on that which comes from the separators. The milk for the starter should be fresh and clean flavored. Heat this to 180 degrees: better to 190 degrees. Keep it at this temper-ature for one hour, then cool to 65 do-grees and add the pure culture that you have purchased. If the culture is of the right type, the resulting starter will be a clean, sour tasting states, If it is bitter, or rancid, or has some foreign flavor other than a clean sour flavor, the culture should not be used.

The first two or three cultures made from a pure culture may have an odor. a culture until It is better not to use after the third or fourth propagation. after the third or fourth propagation. Once having the culture started, every effort should be made to keep the sced (culture) pure. Always select the brs milk each day for the culture and heat it up to destroy other Lacteria; then one is enabled to grow a clean crop (a desirable flavor). Clean crop (a desirable flavor). Clean ground-sterilized milk-is as much

\*Part of an address delivered before a gathering of dairymen at Peterboro.

needed as clean seed. The milk for the culture after being heated to 180 degrees is cooled down to a temperature of 65 degrees in order to give a temperature favorable for the growth of the lactic acid bacfor the growth of the lactic acid pac-teria contained in the culture. The bacteria will grow quickly at 90 de-grees, but the culture would then be too hard and stiff and would not pour well and would be likely to give a mottled butter; so use a lower tem-perature, 60 or 65 degrees. The re-

perature, 60 or 65 degrees. The re-sulting culture will then be better and there will be less danger of other organisms being present. The culture is prepared for a spe-cial purpose—to impart flavor to the butter. The rate at which it will work when added to the gream depends upon many conditions. There is great mod of engate throughout of the second upon many conditions. There is great need of exact knowledge of the condi-tion of the starter, and it should be uniform from day to day. The culture should be a clean sour in taske and smell, should pour well and be of a creasing consistency, should be about 7 in i.d. if y. If higher than this in organisms would not be arguing the organisms would not be the action in the milder culture. If the activity gets up to .8 or .86, the lastic acid developed seems to act on the orgets up to .8 or .80, the lactic acid developed seems to act on the or ganisms—killing them—and hence there are not so many available to do the work when the culture is added to the work when the culture is added to the cream. If the culture is uniform from day to day, it can be relied upon. It is well to test it daily for acid by means of the acidimeter.

#### Location of the Separator

E. F. Eaton, Colchester Co., N. S. The location of the separator is a very important element when it comes to producing cream of fine flavor. Cleanliness and convenience are the two factors to be considered in the loation of the separator.

We cannot expect to produce good we cannot expect to produce good eream when the separator is placed directly in the stable. Under such conditions the parts of the separator are exposed to bad odors and collect bacteria-laden dust from the atmo phere

One separator known to the writer One separator known to the writer is located in a cow stall. It is pro-tected from dirt when not in use by being covered by an old horse blanket. Such conditions do not tend to pro-duce a fine grade of cream.

A building separate from the barn altogether in which to place the sep-arator is the ideal from the sanitary point of view. Too much time, how-ever, would be required to carry the

THE Butter Worker made for Practical Butter Makers-that's the National! The National Butter Worker, built entirely of hard wood, is unquestionably the most practical butter worker sold in Canada to-day, and is in use in the leading dairies of the Dominion. Every dairyman and farmer who makes butter owes it to himself to know more about the superiority of this practical device-it's a matter of dollars and cents on the profit side of his books, to own a National.

Write to us for full particulars; we will gladly give Information and send our Booklet Free on request

THE NATIONAL MFG. CO., Ltd. - Head Office, OTTAWA FACTORIES:--Ottawa and Breckville BRANCHES:--Regina, Sask., Edmentes, Alta., Heectes, R.B.

July 7, 1910.



milk to it, and the skim milk back again. A room in the barn closely par-titioned off so that no bad odors can reach the machine will be the most convenient arrangement on the ordinary farm.

Have the floor of this separator room of cement and so arranged that it can be flushed out with a bucket or two of water after each time the separator used This room should be light well ventilated. and

If the cream is intended for a fancy retail trade and good prices are ob-tained, it will pay to have the sep-arator located at some distance from



The location of many hand cream sep-arators is at fault. The location of the one here illustrated is about ideal. The cream separator should not be lo-cated in a place where it would not fit and proper to keep any dairy uten-

the stable. The extra price would make up for any inconvenience in handling the milk and skim milk.

#### **Dairy Instructors Meet**

The dairy instructors of Western Ontario met on June 10 at the Exeter Creamery owned and operated by Mr. J. H. Scott, president of the Dair-mens Association of Western Ontario. Creamery problems were discussed and after a lunch served by Mrs. Scott, the instructors drove to the Winchel-sea creamery owned Ly Mr. W. G. 12 844 Mead.

An hour was spent here in inspect-An hour was spent here in inspect-ing the plant, examining the butter and discussing creamery problems. The Centralia Creamery owned by Mr. Thos. Willis was next visited. The party consisted of: Jos. R. Bur-Gasev R. H. MacKenzie, A. E. Gasev R. H. Goo, Travis, Fred Boges, Fred Dean, Mack Robert-son, Jas. Boviston and Frank Herma.



tails of the system adv the farm adv believe he cond this connection Deer, Alta. Evening's anufacture of

al in the cans milking. In w should be cool milk cans wit and ice. A t cut in two wi a special tank several cans. is limited ice vantage. Wh vantage. Wh cold well wate necessary, exce be kept over s pour the milk.

The cover sl cans as soon as and left there will be no clott of the milk w and the can is It is advisab ing's and the

arate cans, but two milkings m same can, and not cooled, the be cooled to 60 the two milking arate cans, or is cooled to 75 milk need not h degrees under of The morning's r when it is deliv and it should no in any case.

When the mi Sunday, it shou grees or under.

A thermomete termine the ten the special dair wholly of glass, thermometers .-the Dairy Divis tin 22.

#### Views of

"During the popened the door New Zealand through that doo said A. A. Ayer

#### FOR SALE AND TWO CENTS A WO

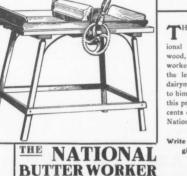
WANTED-Oheese son to sell subs Dairy, Peterboro mission for ead Write Circulation Dairy, Peterboro, for your patrons application.

UP.TO.DATE Briel all supplies, except enough for the st if sold before Aug Output expected Box T, Farm and

WANTED-A first the balance of t Marshall Rothwe

CHEESE MAKER four years' experi sober. None-othe E. S. Phelps, Bir

FOR SALE-Iron P Rails, Chain, Wir etc., all sizes, very stating what you Waste and Metal treal.



And the second s Duer, Atta. Duer, Atta. E-rening's milk intended for the manufacture of cheese should be plac-manufacture of cheese should be plac-mention of the should be plac-mention of the should be cooled by survey, the milke milk cans with cold water, or water and ice. A tub made from a barrel cut in two will serve the purpose, or a special tank, may be made to hold several cans. If the surply of water is limited ice may be used with ad-vantage. Where there is plenty of cold well water, ice is not absolutely necessary, except when the milk is to be kopt over Sunday. Do not dip or pour the milk. The cover should be placed on the

A. Ellis, Dairy Instructor, Chester-ville.
One of the best and most progressive dairy localities in Eastern Ontario, having ideal conditions and soil, to produce as much, if not more, milk per square mile, than any other sec-tion in Ontario east of Kingston, and is that of Dundas county, for which I have the honor of being Instructor. The soil throughout the county con-sists of a clay loam, and is adapted profile on the source of the source of the soil throughout the county con-sists of a clay loam, and is adapted profile or seeing the prosper-ity as critical for the cheap profile of the soil and the source of the tractice of the soil and the source of the source of the soil and the source of dairy cattle, and many fine hords i of dairy cattle, and many fine hords of appearance that they were comfortably housed and well kept during the win-tage county, could not holy asys-ing, surely the soil are an industrious people.

be kept over Sinday. Do not dip or pour the milk. The cover should be placed on the cans as soon as the milking is finished and left there for the night. Three will be no colted cream on the surface of the milk when the milk is cooled and the can is covered. It is advisable to deliver the even-ing's and the morning's milk in sop-arate cans, but if for any reason the same can, and the morning's milk is not cooled, the evening's milk is not cooled, the evening's milk is not cooled to 75 if the morning's milk is cooled to 75 if the morning's milk more 10 the morning's milk is cooled to 75 if the

When the milk is to be kept over Sunday, it should be cooled to 50 de-grees or under.

MANY BMALL PACTORIES. MANY SMALL PACTORIES. Dundas county farmers demonstrate to any who may chance to take noto that they are making great strides in their methods of dairying. Yet after all with these admirable conditions of farm life, and with the rapid growth of the dairy industry in this section, there is still great room for improve-ment, especially along the manufac-tring side of the industry. Cheese tay of them are not con-structed as twy of them are not con-structed as they of them are not con-structed as the should be. They are novated during the past sales re-novated during the past sales re-they are not all model places of burg-they are not all model places of burg-they are all deliver their own milk. grees or under. A thermometer should be used to de-termine the temperature. Use only the special dairy thermometers made wholly of glass, and known as "float" thermometers...-G. H. Barr, Chief of the Dairy Division Ottawa, in Bulle-tin 92 tin 22

#### Views of an Exporter

"During the past year Canada has opened the door for that new country, New Zealand and it has walked through that door in splendid ahape," said A. A. Ayer, of Montreal, in an

FOR SALE AND WANT ADVERTISING TWO CENTS & WORD CASH WITH ORDER WANTED-Cheese makers the coming sea-on to sell subscriptions to Parm and Datry, Peterboro, Ont. Good cash cory, mission for each subscription taken. Write Girculation Manager, Parm and Datry, Peterboro, Ont., for sample copies for your patrons. Samples sent free on application.

UP-TO-DATE Brick Oheese Factory, and all supplies, except boxes, supposed to be enough for the season, six milk routes; if sold before August lat, \$1250; bargain Output expected to exceed fifty tons. Box T. Farm and Dairy.

WANTED-A first class cheesemaker for the balance of the season. Apply to Marshall Rothwell, Navan, Ont. this quality kept up throughout the entire year. I would like to say to the makers, that it is quite possible for them to have a smaller loss of fat in the whey than there are having in many cases. I would suggest that they be carfoil not to use too much culture, and set a little sooner Hy so doing there will be less loss of fat in the whey.

CHEESE MAKER WANTED - Three or four years' experience: good worker and sober. None other need apply. Address. E. S. Phelps, Birnam, Ont.

FOR SALE-Iron Pipe, Pulleys, Belting, Rails, Chain, Wire Fencing, Iron Posts, etc., all sizes, very cheap. Sond for list, stating what you want. The Imperial Waste and Metal Co., Queen St., Mon-

Dairying in Dundas Co., Ont.

T. J. Ellis, Dairy Instructor, Chester-ville.

MANY SMALL FACTORIES.

Farmers all deliver their own milk

Farmers all deliver their own mills. The instructor, therefore, has a good chance of seeing and talking person-ally to each and every one of them, and for throwing out hints as to the proper care of milk before delivery.

MAKERS WELL EQUIPPED.

MAKERS WELL ROUTPPED. The makers are, generally speaking, a very intelligent lot of follows. As a result the quality and quantity of cheese is steadily increasing. The quality of cheese, so far this season is better than it has been since I have been in the business. I hope to see this quality kept up throughout the entire year.

Trade in Soft Cheese

J. M. Musson, Leeds, England.

J. A. Musson, Leeds, England. J. M. Musson, Leeds, England. Attention which lately has been directed to the domand in this country for soft cheeses, may be of interest to the Canadian dairy-man. The trade in soft cheeses few of its confined to London and a Most of mith coast watering places. Most of mith coast watering places. Most of mith coast watering places. The domain and the source of the soft varieties known as Comprising the prance. It is very exceptional for these French varieties, when made in England, to come up to the same stan-dard of excellence as those imported. The domaid for the British-made var-tics of soft cheeses, including the Caroring, Colwick, and cream cheese, is very fluctuating, and the sale of the consumption of act to to regard the consumption of act to to regard the consumption of act to to same as a usury, which, to a large extent acc. Advice to Mathematical actions in the sale of the soft of the to a large extent acc. Counts for the fluctuation in the sale of the consumption of act or larged the sale of the consumption of act or larged the sale of the consumption of act or larged the sale of the consumption of act or larged the sale of the soft of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the soft of the sale of the sale of the sale of the sale of the soft of the sale of the sale of the sale of the sale of the the soft of the sale of the sal

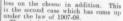
#### Advice to Makers

Advice to Makers The us have a little more individu-alism and personality in our work. Many indeed are the successes we of the advantages that are ours. We advantages the second success of the advantages that are ours. advantages the second success advantages the second success and marked the weaking of the most cheese in the making of the most cheese in the making of the most cheese in the second success and marked the weaking of the most cheese in the making of the most cheese in the making of the most cheese in the second success and a surroundings of our papear ance and surroundings of our papear ance and surroundings of the the the the second success and the second success of the public.

#### **Dairy** Notes

L. Lalonde and F. Robinson, Papin-cauville, Que., pleaded guilty last week to a charge of "utifining" 21 cheese with inferior or workhless curd. The charge was laid by Inspector Mac-Pherson, of the Dairy Commissioners's staff. The defendants were will be a large \$25 and costs and there will be a large

6.6



loss on the cheese in addition. This is the second case which has come up under the law of 1907-08. There is jealoux among some of the cheese factory owners over the estab-lishment of the creamery at the King-ston Dairy School, and at the meeting of the Frontenac cheese board, on June 9th, a resolution was passed stat-ing that the establishment of the creamery was working an injustice on the cheese factories. This resolution will be the established the cold storage and creamery at a cost of \$4,000. It was for the education of the people, and should be encouraged. The resolution was rejected.



We have a splendid money-making proposition for good agents. The Dominion Telephone Mfg Co., Ltd. Dept. D., Waterford, Ont., Canada

E EN ст. \_ back Dar-

Y

ır

can most ordi room t can two

rator ancy a ob from

TION

sep-

uten

ould ) in

tern eter Mr.

air-

rio. and sott,

G. ect-tter

ms ted. Bur-

E vis ert

rns.

1 64

there accussing me' cause my stomick turns at the sight of blood, and him the one to unsew his own children if so comes they need it." Mrs. Dobbs was

comes they need it." Mrs. Dooss was still white about the mouth, and the tears were still undried on her red, round shiny cheeks. She slopped the water over Miss Selina Lue's shoulder

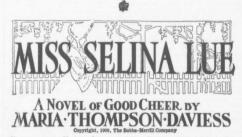
and soused one of Ethel Maud's little

into solve one of scheme induces notice pigtail plaits as she handed over the bowl with a smile. "There, there, Mis' Dobbs, you know they ain't a mite of harm in Mr.

Dobbs; and as fer cussin' looks like that sinful habits is all the let-off a man have got while a woman can break up dishes, slam the stove-lids, spank the children, and make herself



CULTURE is not an accident of birth although our surroundings advance or retard it; it is always a matter of individual education. Mahie



14

MISS SELINY LUE! Oh-Oh-o-ho-ho, Miss Seliny Lue! Boo-''You, Bennie, honey, quit crying this minute and tell me what the mat-ter is. Come here and tet me see!' And Miss Selina Lue made a grab for the grief control ted methods. the grief-contorted youngster, who was dancing with excitement in the gro-cery door. "Now where is the place? Put your hand where you hurt if you can't say it!" "Oh-ho-ho, 'tain't me a-tall! It's

"On-no-no, taint me a tain it's Ethel Maud, and she's sewed herself in the sewing-machine and pa's cus-ing something orful and ma's sick to her stomick. Please, ma'sm, come her stomick. Please, ma'am, come quick and git her out!"

"Lands alive!" said Miss Selina Lue as she reached with one hand for Lue as he reached with one hand for a sunbonnet hanging on the wall and pulled the top on the pickle barrel with the other. "Miss Gynthis, honey, can't you stay here for a few minutes until I can send Mr. Dobbs back to the store? And whatever you do don't let anything happen to the basies in the sop-boxes. The red-headed Rint's twin has been swing him. Please hand me that turkey-tail dwater hanging over there on the wall. duster hanging over there on the wall, while I straighten out my water waves. They ain't nothing like burnt feath-ers or hair to bring up them that's ers or hair to bring up them that's in a faint and I never go without 'em to burn.'' And after a quick glance into her bedroom mirror, Miss Selina Lue hurried down the street, leaving an uncertainty as to whether the turkey-tail or her own soft waves were to Le sacrificed in the cause of resuscitation.

"If grown-ups would jets chaw one Selina Lue found the pathetic figure another's good luck, they could get heap of satisfaction from it." —Miss Selina Lue. MISS SELINY LUE! Oh-Oh-oo hoo-hoo-" and heaving.

At the sight of the deliverer, Ethel At the sight of the deuverer, balant Maud gave a relieved whimper and her touseled head fell over on Miss Selina Lue's bosom, the depths of which were stirred by more than the which were suffering of a pinioned finger, and which took sympathetic note of sweating, masculine misery and white-faced, inefficient mother-flutterings.

a shame you ain's got ten of your own, you are that kinder hoering-like with them. I shore am sorry for you," said the grateful mother as she jabbed in the dart of her sympathy with a smile. "Well, I don't know but it's best with a pirit, "fer your set all as good about letting me help with your'a. People kinder grow along towards what they think about; and as I think baly-tending a good part of the day. come night I feel like I was the mother of twenty. Mind not to take off that rag until I see it again." In a few minutes Miss Selina Lue departed and attempted to hasten down the street, but was interrupted at every turn, it seemed. On the cor-ner ahe met Mr. Dobbs, whose steps were failering toward home. faced, inefficient mother-flutterings. "Hurry on over to mind the store for me, Mr. Dobbs," she said with a kind glance at him. 'It can git her loose in a minute. And, Mis Dobbs, quick as you can, set the kettle on on the stove in the kitchen for some water to take out the swell. We'll be ready as soon as you git back with it." So vastly relieved, with one accord the parente disappeared through opposite doors, thus leaving Miss Solina Lue with the limp and wimpering bag to hold. "There, here, chickie-biddie," she

at every turn, it seemed. On the cor-ner she met Mr. Dobbs, whose steps "Missi they Luce," he said of the metric the second second second second her "if it had scheen Ben, now, I could-er-done it; but the little 'un -I-I-" "Mr. Dobbs. I respect you far your feelings for I seen the thought ter help were in your mind, but Etchel Maud is a simsy little thing as would be hard for a man to handle. She is aleep, and I expect Mis' Dobb have got your dinner read by now." "I' thank you, Miss Seling Lue, 'th mank you, Miss Seling Lue, the master head with the hormor 'us, I was jest a-telling Miss Gynthie, who is a vanting to see you, that it do seem a pity--" whimpering bag to hold. "There, there, chickie-biddie," she crooned to the little white ear buried against her neck as she raised the arm and hand and with a quick. dex-terous turn of the needle released the small pink thumb. "It ain't in-inged much However did not expenjured much. However did you come to sew your thumb?"

to sew your thump?" "We was trying to see what made the top of it go and she got in the way," volunteered Bennie, who was the only member of the family that had stood by the afficied one. Al-though his distress had been genuine, there is an attraction to ten years in flowing blood, even though that same blood be consanguineous. "Shoo! that resuscitation. "Gracious me, Miss Seliny Lue, whos hurt now?" called Mrs. Kinney from her side door, stanting with hot flation dandling from her hand. Mrs. Jim Peters also halled from her kitchen window, but Miss Selina Lue one injured. "EveryLody stumps the sobbing but importan: Bennie. In the first of the three rooms that formed the Dobls residence Miss' Bennie was on the point of arguing

July 7, 1910.

question when he was overtaken by duty which she had trod so excitedly auty which she had trod so excitedly with Bennie Dobbs an hour before. Mrs. Kinney had been sitting on the hot stove of curiosity, and her face was determined and her voice was compelling as she hailed from her swift retribution for his seeming heart-lessness in the shape of wet dish-towel that spanked across his shoulders with a sting. "Bennie Dobbs, I am ashamed of

compensions stoop. "Wait a minute. Miss Seliny Lue, can't you? Whatever was the matter with the Dobbase?" she said, draping herself over the picket-fence as if she had come to hear the news if it took "morning and all the backbone she

had come to hear the news if it took all morning and all the backbone she possessed to extract it. "It was a bad accident, but it mighter been worse if she had a-run it in her eye, though that woulder been hard for her to do unless it had been something like a hunting needle. been something like a hunting needle. A thumb ain't so much use except in peeling potatoes and sich, as a sortage Lalance-wheel for the rest of the hand," answered Miss Selina Luc, commencing in the dramatic part of the tale without any unnecessary preamble

amble. "Now, ain't that like Mary Ellen Dobbs? I never seen sich a person for keerlessness. It's a wonder she ain't did it before! It will be power-ful avkward to be without a bhumb when it comes to going to meeting in a genteel way with gloves-" "It was Ethel Maud, Mis' Kinney

"Ethel Maud? Who ever heard of a

"Ethel Maudr who ever neard of a child injuring her mother? Miss Seliny Lue, she must have the rables. Maybe she was bit by a mad dog when her mother didn't know it. I reckon

spank the children, and make herself a cup of tea to ease her nerves, and nobody even knows ahe's upset." "That's all very well for a woman that's as free as you is, Miss Seliny Lue; but a married woman has feel-ings you can't never understand, and one of 'em is a cussing hubband."" hardly some your feelings in that case, but if I had a-married, and he had a-felt a cause for cussing—There now, she's done droze off with the southing of the hot water! Open my bag there and git me that old linen her mother didn't know it. I reekon I better call my children on this side of the street till I see what happens." "Mis' Kinney, na'am, please wait till I tell you the straight of it. Ethel Maud sewed her thumi. in the sewing-machine and she ain't hurted bad at all. In a day or two-"

machine and she ain't hurted bad at all. In a day or two."" "Well. Miss Seliny Lue, I take it hard indeed that you let me go ao upset over the troubles of one of my neighbors that ain't anything at all. I never expected no such treatment from you that I calls..." Mrs. Kinney put her apron to her eyes and began to "Min." souring of the not water! Open my bag there and git me that old linen handkerchief tored into strips. Don't take off this rag to-night, and I'll fix it again in the morning." Miss Selina Lue laid the relaxed little figure on the bed without causing a tremor of the white walld.

the bed without causing a trend, of the white eyelids. "Law, Miss Seliny Lue it do seem a shame you ain't got ten of your own, you are that kinder hovering-like with to sniffle. "Oh. Mis' Kinney, honey," pleaded Miss Solina Lue, with an eager pat on the heaving shoulder, "I' wouldn't hurt your feelings for worlds. Now, who but you coulder been so kind and thought up all them afflictions for the Dobbses?"

thought up all taken amilicions for the Dobbess?" "That's jest it," sobbed the friendly one: "It takes more interest in my friends' doings than I do in my own, and I don't believe they appreciate it like they oughter, neither. Sometimes they are so told to me when I ask they are so told to me when I ask "Yes, they do Min" Kinny, honey, and don't you go to doubling your friends, which is a poor thing for anylody to do. When you want to sympathize with me I am always glob to git it and consider it a blessel thing to have, whether I need it or not. Sympathy is jott the pure pulce of the heart squeezed out for a friend." "That's like you, Miss Seliny Luc, a-patching up people's hurt feelings and children with kind words and rags. I was a-saying to Mr. Kinney last night, when he went and got that."

last night, when he went and got that cough medicine for Luella from you,

"Mr. Dobbs. I respect you for your feelings for I seen the thought term help were in your mind, but Ethel hard is a slimsy little thing as woll be hard for a man to handle. She is alseep, and I expect Mis Dobb has to your dinner ready by now." "If thank you, Miss Seling Lue ma'am, and I do asy as how you be the master hand with the young "use I was jest a-telling Miss Cynthie, who is awaiting to see you, that it seem a pity--" Miss Selina Lue's progress down the street was resumed before Mr. Dobbs had exactly formulated ther anature Miss Selina Lue inferred from anature Miss Selina Lue inferred from affairs was not to be permitted by the anaxious neighbors along the path of

#### July 7 very your

was c'ndi Jim, Jun in fact w he was s with mor citizenship state of state of h quired Ly they acqui on which t flannels an "Don't she dema weeks old ised Jim t ten-forty c to Mr. H man, he h we feel son night, whe while I is couldn't he

13

could have And I told way I fel-Lue. It do -Oh, pleas to see his f and I thin and I thin spell he mi morning!" "Did he night, like drawing up

"Oh, no, band you se said when never was knowing wh baby. Peop knowing wn baby. Peop half a-Oh, must go! L to you!" an ed her guest "My! I cle the matter the matter

woke up an (Cont

#### The Hom an

B. Shar

There seen general publi in the com in the community of the great second careful obse Cleanliness at It is possible run a small own kitchen, both econom and vegetabl glass jars or cheaper than in the form goods, and general qualit duct can be n duct of the a

8 Minute for Lacteria, are untold numbe the water we eat are teem

bacteria are cause of the '' of the various All forms of complete sterili complete sterili more than encl sterilized in ja sealed air-tight to heat of suf a time, long bacteria that of to spoil. Ster to spoil. Ster complished by There a

bacteria

.

was c nductor on the "Lectric" and jin, Junor, was the youngest of all ; in fact was of such a youngess that he was still blushing into fary red with mortification over his recent citizenship. Mrs. Jim was in that state of beatitude which is only acquired by very young things when they acquire the year of the state of t

Did he show any signs of colic last

"This is show any signs of colic last night, the behave squirrings, and drawing the his knees?" A put the flannel band you sone over 1 put the flannel band you sone over 1 put the there never was such a person that a pain in knowing what to do with a pain in bahy. People might think you had hali a -Oh, good-by-good-dy, if you must go! Look he is kissing his hand to you!" and Mrs. Jim Peters watch-ed her guest out of the gate dreamily. "My! I clean forgot to ask what was the matter with the Dolbas," she woke up and exclaimed to herself. (Continued next week.)

...

#### The Home Canning of Fruits and Vegetables

and Vegetables S. B. Shaw, Agricultural College, North Carolina. There seems to be a bolied by the general public that there is something in the commercial canning process in the commercial canning process in the secret of this process is a careful observance of two things- *Cleanliness* and *Complete Sterilization*. It is possible for every housewife to own a small canning factory in her own kitchen, and on the farm this is and compute Strable. Furits and second and on the farm this is and example the strable second the second the form of y can be purchased in the form of the between and general quality of the between and the average factory. Minute forms of life, which we call in the commercial canning process. Creaniness and Compilee Sterilizition tria possible for every housevition, tria possible for every housevition, tria possible for every housevition, and canning factory in the first day's loiling tills practically and regatables can be 'put up'' in the first day's loiling tills practically and the flavor, texture and goods, and the flavor, texture and the everage factory. Minite for ol of line, which we call hevateria are toeming with them. These

#### FARM AND DAIRY

very young; Jim was also young and Jim, Junior, was the youngest of all in fact was of such a youngest that was still blushing into fiery red its accompliated by subjecting the terr provide the subject of the subject



Neat and Comfortable and in Every Sense a Real Home

The home of Mr. H. Bollert, Oxford Co., Ont., is here shown. Mr. and Mrs. Bol-lert may be seen to the left. Note the article and the illustrations elsewhere in this issue concerning Mr. Bollert and his farm.

this issue concerning Mr. Bollert and his farm. outfits usually make use of the 'oppen-kettle' process. Here the cans are submerged in boiling water and kept at that temperature for a time suffi-tion to destroy bacteria and spores. The third process, known as fractional or jars in boiling water for a specified wind all stems of the same and washed thor-sentive days in building upon consecu-The process of boiling upon consecu-The first day's Lolling kills practically should also have have or deriver and made perfectly clean. These should also have or dirtic and washed to can decayed or dirtrik and washed to an decayed or dirtrik and washed to an decayed or dirtrik and washed to back the safet method and is made perfectly clean. The or a decayed or dirtrik and washed to back the safet method and is to back the safet method the safet to back the safet method the to back the safet method the safet to back the safet method the to back the safet method the safet to back the safet the sa

The strictly home purposes, glass starting and free from the action of bacteria. Do not use rubbers the sector of bacteria. Do not use rubbers the sector of bacteria. Do not use rubbers the sector of time. The first season's cooking usually destroys the life or elasticity of the rubber. For this reason it is updated the used over and used with performed used over and the performance of the sector. The first season's cooking usually destroys the life or elasticity of the rubber. For this reason it is updated the used over and used with performed used over and the performance of the sector. The first season's cooking usually destroys the life or elasticity of the rubber. For this reason it is updated the used over and the with performed used over and used the sector and the dependence used one season cannot fin is more or less soluble in first, and vegetable juices. While the amount of the dissolved under ordinary conditions is too small to be at all injurious, still it has been enough to be at all injurious.

make the can unfit for use the second time. There are numerous kinds of glass are on the market, many of them hav-ing certain distinct points of advant-age. See Fig. 1. The jar most com-proper used is the ordinary screw-top though they. I, Nos. 4 and 7. Al-though they is 1, Nos. 4 and 7. Al-them on account of chain is pro-cessing or cooking. The topy are usually metal with a porcelain liming factory for use. Jars of this type can best be used for rich preserves, jams and fellies where complete sterilization and fellies where complete sterilization with can be used for nikes jars with improved screw-top index two jars with improved screw-top. These jars have a glass or porcelain 0, These jars have a decided improvement on the old stype screw-top. is a decided improvement on the old-style screw-top.

The work and the second statisficatory types of jars The most satisfactory types of jars for general use are those shown in Fig. Path's hows the original "Lightning Path's hows the original "Lightning top hold in place by a wire spring; the "Safety by a lacquered metal band fitted with a spring and lever; and the in place by a lacquered metal band fitted with a spring and lever; and the in place by a lacquered metal band fitted with a spring and lever; and the inplace by a lacquered wire spring. The "Safety-vala" type jars are used by some commercial prackers in canning the extra-fitted fruits or vecetables. Thous successful work can be done with them successful the fitter from \$1 to \$1.25 per domewhat high, but with reasonable care good jars should last many years. But and the successful work can be done with successful work can be done with them as can be aforded. The best quality the work of jars should last many years. But and the fitter for \$1 to \$1.25 per domewhat high, but with reasonable care good jars should last many years. But and the fitter for \$1 to \$1.25 per domewhat high, but with reasonable care good jars should last many years. But and the submate types of jars are fitted

RUMMERS. The various types of jars are fitted with rubber rings on which the tops rest when in place. Rings are used to aid in scaling the jars and keeping them air-tight. After the contents of a jar have been sterilized, it is necess-that the jar Le kept air-tight so that the jar Le kept air-tight so the source of the source of the source of the used as these used one season nevers be be depended upon to make air-tight bers, as in Luying jars, get a good prade.



Fig. 1-Different Types of Jars

Fig. 1—Different Types of Jar bacteria are practically the sine of the various fruits and regetables. All forms of bacteria are killed by complete sterilization. This is nothing more than enclosing the products to be sterilized in jars or cans that can be sterilized in genough to destroy the imed on genough to destroy the one plane are there by the first are woll good to soft and the cans or jars and the entire sur-inors in a surface and the secret of making and have maked are integrated and the secret of the sterilized in jars or cans that can be sterilized in a secret and the secret of the secret of a sufficient temperature for integrate that cause the raw material to oplicate the secret of the secret of the secret of the secret at that cause the raw material and have maked those that are young on plicate the secret of the secret of the secret of and have maked those that are young rule, young, quick-growth, regetables to are superior in flavor and texture to



her Lue, atter f she took

0

tedly fore. face

Was

it it ulder had or of the

Lue. rt of pre-Ellen 87801 she

eting nney

of a Miss bies. when ckon

side ans." wait ving-d at

ke it f my all. ment

nney egan aded pat ldn't Now,

and the ndly my te it

ask ney your for it to giad essed juice nd."

Lue, lings and nnes

that you ain't and an-

.

her hung lay when other ters w as and and. we's very,

16

#### neeeeeeeeeeeeeeeeeeeeeee The Upward Look Is God in Everything?

Were a good fairy to visit us unex-pectedly some time when we were troubled and despairing, and offer to give us a magic talisman through which we could acquire the power to transform all the events and incidents transform all the events and incidents of our lives into pleasures and causes for joy, how gladly would we accept the offer. How pleased we would be to feel that thereafter we need have no more worry or anxiety, as by one touch of our wand even our troubles touch of our wand even our troubles would Le converted into causes for rejoicing. And surely, much of the pleasure we would thus derive would have its source in the thought of the happiness we would thus he able to bring into the lives of the dear ones around us. How happy we would endeavor to make them! Most of us, at some time or other

Most of us, at some time or other in our lives, perhaps often, have felt such a wish rising up in our hearts. How remarkable it is, therefore, that although not a mere fairy but-One infinitely greater, God Himself, has made such an offer to us, and is still making it. We have refused to listen to it, or to believe that it could have the state. be true.

Our troubles and heartaches arise from the fact that we do not see from the fact way we have a set of the set o The care enjoyed by others are do-nied to us. In our hearts we wonder why. We may even feel, without ac-tually voicing the thought, that really there is little use in our trusting in God to make things come out right, God to make things come out right, for as sure as we do the people around us will say, or do things, that will upset all our plans and destroy all our secret aspirations. Why then waste time in vain attempts to attain the impossible when failure is so sure to be the ultimate result? It is when we think these thoughts that we are refusing to scept the magic tail we refusing to scept the of help are too could be true and

of help are too good to be true and, therefore, we refuse to accept them. We do not see that good gifts, gifts direct from God, are concealed in the troubles that threaten to crush Verv us, and thus we fail to grasp and hold fast to the magic wand of faith, which has the power to convert these trials and disappointments into causes for joy and thanksgiving.

As soon as we can see our Father in everything we find that life is be-

Woman's Kitchen Friend

This kitchen rack should be in every woman's home. You cannot afford to do your work another day without it. All the articles shown are household con-



Handles are black, and w veniences. Handles are black, and well haished. All regulation size and length. two new subscribers to Farm and Dairy, at \$1 each. Get the boys and girls to work securing two of your neighbors to subscribe. It will surprise you how eac-ily this can be done. Address Oirculation Manager, Farm and Dairy. Peterboro, Ont. FARM AND DAIRY

things that used to so string and annoy us have lost their power to wound and hurt. We simply rise above them. The fact is, God is in everything. The whole taaching of scripture asserts and implies this. The very hairs of our head are all numbered. We are not to be careful about anything be-cause our father cares for us. We are with an face for the lord is on our not to lear, for the Lord is on our side. No one can be against us, be-cause He is for us. When we pass through the rivers, they shall not through the rivers, they shall not overflow us, and when we walk through the fire, we shall not be burned be-cause He will be with us. He shuts the mouths of lions, that they cannot hart us. "He delivereth and rescu-eth." "He maketh the devices of peo-via of norme offect"

eth." "He maketh the devices of peo-ple of none effect." It is this very God who is declared to be "our refuge and strength, a very present help in time of trouble." "Because thou hast made the Lord, which is my refuge, even the most High, thy habitation; there shall be no evil befall thee, neither shall any plague come nigh thy dwelling. For plague come nigh thy dwelling. For the shall give His angles charge over thes to keep these in all thy ways." "Be content, therefore, with guch things as ye have; for He hath said, I will never leave thee nor forsake thee." So that we may boldly say, "The Lord is my helper and I will not fear what man shall do unto me." Nothing else but seeing God in everything, will make us loving and patient with those persons or things who annoy and trouble us. Nothing else will completely put an end to all

who annoy and trouble us. Nothing else will completely put an end to all murmuring or rebelling thoughts. Christians often feel at liberty to murmur against men and against circum-stances, when they would not dare to murmur against God. Therefore, this murmur against Goo. Thakes it im-way of seeing things makes it imway or seeing things makes it im-possible for us ever to murmur. "The life radiant," writes Lilian Whiting, "is that transfiguration of the ordindaily events and circumstances, ch lifts them to the spiritual arv which

plane and sees them as the signs and indications of the divine leading." We may all live this life. If we are indications of the divine leading." We may all live this life. If we are not doing so, the responsibility rests with us, not with God, who all the time is offering us the help and strength and confort and power we need. It is ours for the asking and for the taking.—I. H. N.

#### ...

#### **Education of our Girls**

A most enthusiastic convention of A most entrustantic convention of the east and west Victoria Women's Institute was held recently at Lind-say, Ont. The principal speaker of the day was Dr. Annie Backus of Ayi-mer. Dr. Backus took for her subject the "Education of Our Girls," and "may a most shihe and "puping address gave a most able and rousing address

owing to lack of space ,we only give a few extracts from this most able address

dress. What men want, and what we want is good, educated women. The wife must be educated to guide the precious child through the rocks and shoals which beset it, and as a ship has to be piloted through the shoals and rocks by an experienced and educated pilot, so has the child in infancy to the guided by an educated mother. If guided by an educated mother. the pilot were not educated mother. If the pilot were not educated on the whereabouts of shoals, and the right channel, where would his ship go to? What we need today is the education of women.

of women. The great foundation of a girl's ed-ucation is, and must be laid in the home. They should be kept in close touch with Nature, and they must learn, for it is no gift of Nature. More time should be spent to teach the taught girl on the farm should be taught girl on the farm should other animals around them, how to

coming one long thanksgiving. A rest <sup>1</sup> hitch and unhitch a horse, milk a cov, enters our hearts that is unspeakable. etc. All these teach her how to act With it comes au uplit, even a gay- and think quickly. In case of an ety of spirit, that transforms our emergency the girl should be prepared lives. Soon we find that the little things that used to so sting and annoy is have lost their power to wound and hurt. We simply rise above them. The fact is, God is in everything. The hact his. The very hairs of agement of estate, to know somehing and implies this. The very hairs of agement of estate, to know somehing agement of estate, to know something of documents before signing them. of documents before signing them, Give girls as much knowledge as it is possible. A girl is as a rule born brave, and the pages of the history of early Canada are filled with the brilliant deeds of women. Girls should be taught to be brave. I beg of you to give your girl a chance, and give her a thorough knowledge of the financial partnership and matrimonial affairs. . . .

#### A Good Way to Dry Apples (An Ontario Housewife)

(An Ontorio Houseneye) The most general method adopted in drying apples is, after they are pared, to cut them in slices and spread them on cloths, tables or boards and dry them outdoors. In clear and dry weather this is, per-haps, the most expeditious and best way; just in cloudy and stormy weaththis way is attended with much er this way is attended with much inconvenience, and sometimes loss, in consequence of the apples rotting before they dry. To some extent they may be dried in this way in the house, although this also is attended with much inconvenience. The best method that I have ever

the best method that I have ever used to dry apples is to use frames. These combine the most advantages with the least inconvenience of any way, and can be used with equal ad-vantage either in drying in the house or out in the sun. In pleasant weather the frames can be set out-doors against the side of the build-ing, or any other support, and nights, cloudy and stormy days, they brought into the house and or can against the side of the room near the stove or fireplace.

store or fireplace. My frames are made in the follow-ing manner: Two strips of board, 7 ft. long, 2 or 2% in. wide, the whole in. thick. Null the short strips across the ends of the long ones and it makes a frame 7 x 3 ft. which is a convenient size for all purposes. On one of the long strips mails are driven 3 in. apart, extending from the top to the bottom. bottom

bottom. After the apples are pared they are quartered and cored, and with a need-le and twine, or a stout thread, strung into lengths long enough to reach twice across the frame. The ends of the twine are then tied to-gether, and the strings hung on the nails across the frame. The apples nais across the frame. The apples will soon dry, so that the strings can be doubled on the nails, and fresh ones put in their places. As fast as the apples become sufficiently dry they the apples become summerency ary easy can be taken from the strings and the same strings used to dry more on. If large apples are used to dry they can be cut in smaller pieces. Pears and large applies are used to ary they can be cut in smaller pieces. Pears and quinces and other fruits that can be strung may also be dried in this way. It is said that dried fruit put away with a little assarfars bark, about a handful to a bushel of fruit, will pro-tent the drie force from the start of t text the fruit from those troublesome little insects which so often lestroy hundreds of bushels in a season.

#### ...

## Labor Saving Contest Many interesting and instructive letters are being received in our La-bor Saving Contest. If you have not bor Saving Contest. If you have not yet sent in your letter, write it soon. Any illustrations of your pet labor saving device will be most welcome. They add much to the value of your letter. Read the announcement of the Contest in June 2nd issue of Farm and Dairy. It should interest you. ...

Renew your subscription now.

July 7, 1910.



WOMEN 6644.

Simple dresses made in shirt waist style but with waist and skirt joined by means of a belt, so that they become one piece garments, are always liked for general wear. This one is simple and alto-. <u>#</u> gether desirable, while it will be found available for almost all seasonable ma-terials. Material required

material required for medium size is  $7\frac{1}{2}$ yds. 24 or 27,  $5\frac{1}{2}$  yds. 32, or  $4\frac{1}{4}$  yds. 44 in. wide,  $\frac{1}{2}$  yd. 27 for collar and cuffs. The pattern is cut for 14, 16, and 18 yrs., and will be mailed for 10 cts.

HOUSE GOWN OR WRAPPER 6650.

The simple house gown is closed at the left of the front, giving a sug-gestion of Russion, gestion of Russion, is greatly in vogue. This one is simple yet smart and al-together satisfac-tory. The blouse yet tory. The blouse and skirt are cut in one, making a one-piece gown and the closing can be made invisibly or with buttons and buttonholes as liked. Material re-quired for medium size is 10 yds. 24 or 57, 6% yds. 32 or 5% yds. 44 ins. wide with 3% yds. of banding. The pattern is cut for a 34, 35, 38, 40, 42 will be mailed for the closing can be will be mailed for

and 44 in. bust, and 10 ets.

BLOUSE OR SHIRT WAIST 6398.

Such a simple yet

becoming blouse as

this is welcome at all seasons but especially so just now. This model is

an exceptionally becoming one, the plaits over the

plaits over the shoulders provid-ing just the neces-sary fulness.

sary fulness. Material required for medium size is  $4'_{4}$  yds. 21 or 24,  $2'_{4}$ yds. 32 or  $2'_{4}$  yds. 44 ins. wide. The pattern is cut for a 34, 36, 38, 40, 42 and 44 in. bust, and



be mailed for 10 cts. BLOUSE OR SHIRT WAIST 6571



July 7



CARDIGA

hay crop at ing fine. W Weather h month for the are all the turnips are good dema H. P.

н SIDNEY ( good but ra week having is becoming condition. " ine. There abundance of dry weather the crop will iety at that abundant or also telling come soon, t Oats are sell ley, 55c to 66 bush.: eggs, hogs, 12c to a pair.-J. K condition.

HAL KINMOUNT continues. I in the shade checked. Bar short straw. ter than last ham, hins so around here. loads of catt per head. Ot \$3.75 to \$4 a d during Octobe



160 acres in Northern of the G. Railway, Sc miles neare and produc valuable tim creasing in For full f sale, hor ... r special tlers, write

D.SU The Direc PARLIAMENT OR TO HON. Minista



-82

The I

-----

by 80 ne

nd st

ed 1% is. in.

ut 8.,

at he

ie. ole al-

at

nd be

or nd as re-

80

dø

he 42

et

as at ut ist

hid

ed

de he 4

nd

ist

is eal ms his

ed to

ng

ith

ed

nd

= 62

ne f

## Contributions Invited. PRINCE EDWARD ISLAND

KING'S CO., P. E. I.

RING'S CO., P. E. I. CARDIGAN BRIDGE—Prospects for the hay crops are good. Gmin crops are look-ing fine. We have had heavy rains lately. Weather has been void the past month for this time of the point for a real through seeding. Pointses and good demand and bring high prices.

#### ONTARIO

#### HASTINGS CO., ONT.

HASTINGS CO., ONT. SIDNEY OROBSING.—Pastures are very week havin is badly needed, the past week havin is badly needed, the past week having having bally bally bally is becoming parched bol, and the grass is becoming parched bally prospect for en-time and parce and spaces, but the dry drops of cherris and spaces, but the dry drops of cherris and spaces, but the dry drops of cherris and spaces but the dry drops of cherris and spaces but the dry drops of the star and the dry weather is ablos telling on them, and if rail does rot out and the strawberry season is over-out and the strawberry season is over-the strawberry season is over-season is over-season is over-s the state

#### HALIBURTON CO., ONT.

HALIBUPTON CO., ONT. KINNOUNT-The hot, dry weather still continues. It has been 30 to 30 degrees in the shade. The growth with short straw. The old meadows are bet-ter than last year. John Long of Dur-ham, has sold several Hereford bulls around here. He has shipped three car-loads of cattle, paying from \$25 to \$30 per head. Other buyers are offering from \$35 to \$48 act for cattle to be delivered \$3.75 to \$4 a cwt for cattle to be deliver during October; \$5.50 for lambs. Millfe

## NORTHERN **ONTARIO**

160 acres of land for the settlers in Northern Ontario. Situated south of the G. T. P. Transcontinental Railway, South of Winnipeg, and 800 miles nearer the seaboard. A rich and productive soil, overed with valuable timber, it is rapidly in-creasing in value.

For full information as to terms f sale, homestead regulations, and or special colonization rates to settlers, write to

D. SUTHERLAND The Director of Colonization PARLIAMENT BUILDINGS, TORONTO OR TO

HON. J. S. DUFF Minister of Agriculture

MONEY IN DITCHING

Sales Department

The Buckeye Traction Ditcher Co.

FINDLAY, OHIO, U.S.A.

See Article on Page 5 This Issue

qualities of the

FARM AND DAIRY

#### WELLAND CO., ONT.

WELLAND CO., ONT. NETHERBY. - Crops are doing fine so far, but things are beginning to need a shower of rain to help them along. Ap-ples are going to be a good crop, but oher-ries are not so good as was expected when in blossom. Hay is a fair crop.-J. W. Y.

#### SIMCOE CO., ONT.

SIMCOB CO., UNT. STAYRED-This is the centre of a hig fruits-strawborries, currants, etc.-are heavily lader, while raspheries are at present filled with bloom. Apples, pears and plums promise a splendid yield. The action of the Agricultural Department in establishing demonstration orchards, action of the Agricultural Department in establishing demonstration orchards, where pruning, spraying, etc., is done by experts, is benefiting the crop greatly.

#### WELLINGTON CO., ONT.

-T. G. WELLINGTON CO., ONT. BLORA.-Excursions to the Ontario Agricultural College have been running for relativate College have been running for any set of the set of the set of the set of the runnbor than is still growing. A larger number than is still growing. A larger ited at the farm and Royal City between the predicted continues to give sound, practical advice from the platform dur-process of the set of the dress to visitors through it form of ad-transforments. Stock of all kinds in the country is in good order. The selling off of soung cattle shipped today, which while of soung cattle shipped today, which while one have the set of aday, which while one good by the good have good the lays the golden egg-OW. BRANT CO, ONT.

the point and shifting the goose that lays the point RIAT CG, ONT. PAIKLANDD-Hay is a first crop. Hay-ing is well under way. Alarla, where it came through the winter all right, is a heavy crop. Blue grass is its worst draw, Eed clover suffered from the draw. It is a straight of the router of the straight of the router of the straight of the router of the straight of the grubs and cutworms have injured the parameters and is growing nicely. White grubs and cutworms have injured the parameter of the straight of the promises to be a fair crop. Strawberies of the straight of the straight of the promises to be a fair crop. Strawberies of the straight of the description of the straight of the straig

#### NORFOLK CO., ONT.

NORFOLK CO., ONT. SOUTH WALSINGHAM.—The dogs are still ted and murited. Some farmers talk of going into sheep raising to storm sively than before, believing it to vasion of the most paying branches in mixed farming if the worthless curs in the locality are kept away. The dog nuisance has certainly been a great drawhack to the sheep industry in this province. Good, fat, heef cattle are out of the reach of

Every farmer and thresherman

vs the value of a time-saving machine like a harvester. We want YOU to know the Money-Making

**Buckeye Traction Ditcher** 

and saves 25 to 50 per cent. of the cost

of hand work. Are you interested -

vicinity to use a BUCKEYE will make the BIGGEST profits. Address

anxious to earn more money ?

It cuts 100 to 150 rods per day,

Write TO-DAY for Catalog "G". Remember the FIRST man in your the local butcher. The grand feature in this herd had much to do with the success farming to-say is the splendid prices the of the sale. The entire herd of 74 cattle brought as average of g338. The highest price was farming pay?" He knows it desc. B. B.

#### PERTH CO., ONT.

ST. MARYS. - A greater area was seed. ed to alfalfa this spiring. It has suffered the least of any crop from the cold sea-son and present indications for a splen-son and present indications for a splenthe least of any crop from the cold sea-son and prevent indications for a splen-did yield, warmt full areater attention being paid to the full areater attention The turnings are all most valuable some corn has been some the second table some corn has been some the second table some scatter has been started to work for her season, and will be followed by the seather is season, and will be followed by the seather is the unit of the unsetted weather is the has given farmers time to do fencing and draining and a great number have been using their time to advantage.-H. B. W.

#### GOSSIP

THE FIELD CROPS OF CANADA

<section-header><section-header><section-header><section-header><text><text><text><text>

and Alberia. Alberia Alberia and Alberia Alberia and Albaria serving in favor in all the pro-vinces, but especially in Ontario, where a large number of correspondents report-upon the increased areas in this crop. The effects of late frosts have been felt in many places and injury has been done to fruits and tender vegetables in some lo-calities, but generally the prevailing low calities, but generally the prevailing low strengthened the field eror seeding and the at-left them better able to withstand the at-left them better able to withstand the attack of night frosts, and re-seeding and re-plinting have been less necessary than in former years.

GOOD PRICES FOR JERSEY CATTLE GOOD PRICES FOR JERSY CATTLE One of the most successful sales in the history of Jersey catlle in the Western States took place recently on the farm of Mr. H. West, at Scappose, Oregon. Mr. West was dispersing his here of high class cattle and long prices were given for some of the best specimens at the au-tion. The previous show yard record of

of the sale. Note that the success The entire herd of 74 cattle brought an average of \$236. The highest price was given for the solendid young bull. Emin-gives for the solendid young bull. Emin-ter, of Philos was bought by Mr. E. Peteste, of Philos price was bought by Kr. N. H. Lecke, of Lockie, who was bought Wr. N. H. Locke, of Lockier, G. L., or \$76. Many other high prices were paid at his sale.

I am renewing my subscription for Farm and Dairy. I would not like to be with-out it as we would miss it very much now. -Wm. Smith, Simcoe Co., Ont.



It works while the horse works -takes away the pain-reduces swellings-makes legs and joints sound and strong -leaves no scars or white hairs because it does not blister.

### **Kendall's Spavin Cure**

has been the horseman's standby for 40 years and is used all over the world.

Burns, Ont. Sept. 10th 1909. "I have used Kendall's Spavin Cure and it cures Old Stubborn Cases." WILLIAM H. DOUD.

Keep your horses sound as a illar. Get Kendall's today and dollar. dollar. Get Kendall's today a you will have it tomorrow needed. \$1 a bottle-6 for \$5.

When you buy, ask for free copy of our book "A Treatise On The Horse" or write us R1

Dr. B. J. KENDALL CO., Enesburg Falls, Vt.





Have been in use for more than forty years. Each year the demand for them has grown until they are now used from coast to coast, and the best advortisement other makers their goods is that they are AS GOOD AS LOUDEN'S AS GOOD AS LOUDENS We manage however to koep the lead we have always had and to maunife-tor Hay Tools ever of the 31 different Hay Cartries we may Write for cata-logue and prices to for Steel Track

LOUDEN MACHINERY CO., Guelph, Ont. Hay Tools, Barn Door Hangers, Feed and I it-

**Peerless Lawn Fence** 

ng and Attractive- All ly crimped, large gauge, stu-

during twelve months.

THE BANWELL HOXIE WIRE FENCE CO., Ltd. Dept. H, Hamilton, Ont., Winnipeg, Man.

Beau, Imp. Yearling stallions and i mostly all from imported mares.--R. Station: Myrtle, C.P.R., L. D. Phone.

## FARM AND DAIRY

horse hides, \$2.50 to \$2.75; tallow, No. 1 quality, 6c to 6% ca lb. MARKET REVIEW AND FORECAST 

Toronto, Monday, July 4th. — It would be foolish to blind ones even to the fock that be continued drought is creating and the fact that prices in Chicago decident was even in the face of the adverse of the adverse bene stated by the second state of the adverse bene stated by the second state of the adverse bene stated by the second state of the adverse bene stated by the second state of the adverse bene stated by the second state of the adverse bene stated by the second state of t

ate future

Call money in Toronto rules at 51/2 per

WHEAT Unfavorable crop reports have had a distastrons effect on stocks in Wall street.

BREEDERS' DIRECTORY

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

SPRINGBROOK HOLSTEINS AND TAMWORTHS.--High-class stock, choice breeding. Present offerings, two year old heifers, fresh and in calf. Young bulk. Five Tamworth boars from limp, stock, ready to wean-A. C. HALLMAN, Breshau, Ont.

ONE 2 YR, STALLION by Champion Right Forward, Imp. One 2 yr. filly by Barron Beau, Imp. Yearling stallions and fillies by that greatest of sires, Acome Imp., mostly all from imported marwe-R. M. HOLTBY, Manchester P. O., and G. T. R.

## quality, se to 5% c a lb. Dealers are paying at country points: beef hides. cured, 8c to 8% c: horse hides. \$275 to \$3; calfskins .12c to 13c; sheep-skins, \$1 to \$1.25; lambskins, 15c to 30c,

corn. No. 2. 66:: Canadian eorn, 65: eto 56:, Toronto Frielha: Canadian wester) nats. No. 2, 38:: No. 3. 7e, immediate shim-ment: Ontarios, No. 2, white, 33: to 34: outside: 36:;e on track. Toronto: pens, 70: to 71:: barley, 51: eto 55:: rye, 67: eto 66: backwheat, 51: e a bush. On the farmers' market, cats sell at 38: eto 66:: pens, 70:: barley, 46:: rye, 70: a bush.

The following are Montreal wholesale prices: Barley, 48c to 49c; corn. Ameri-can, 64c to 65c; Canadian western oats, 37e to 37%e.

#### POTATOES AND BEANS

POIATOES AND BEANS The large crop of old potatoes is hav-ing a demorphism effect on this sale or quoted locally at 56c to 66c a has, out of store. There are no Delawares on the mar-tet. New American potatoes are seling at \$200 to \$5 a harrel. Old potatoes in Chicago are actually selling at the present

On the farmers' market, potatoes are selling at 60c to 70c a bush. In Montreal potatoes in car lots are selling at 45c to -----

polatoes in car lots are setting at soc to 50e a bag. The local trade in beans is quiet: the stocks are limited, and the prices remain unchanged, being 82 to 82.10 for primes, and 82.20 for three pound pickers, Montreal prices for three pound pickers are \$1.95 to \$2 a bush. ORMSBY GRANGE STOCK FARM, ORMSTOWN, P. QUEBEC. — Importation and breeding of high-class Civdesdales, a specialty. Special importations will be made.—DURCAN MEACHRAN.

#### WOOL

Quotations for wool remain unchanged. Washed fleeces, 19c to 20c lb.: unwashed fleeces, 12c to 13c: rejects, 15c a lb.

#### HIDES

There is a slight tendency upwards in some classes of hides. Quotations by local dealers are: inspected steer and cow hides. 9e to 10e a lh: bull hides, 8e a lb: calf skins, 13c to 14e; sheepskins \$1.25 to \$1.35 lamb skins, 28e to 30e; horse hair, 30e;

#### HAMILTONS ALL STEEL NO. 4 RAKE

This rake is a most efficient and durable machine. The teeth can be adjusted to be carried tight to the ground or higher as desired. The dump trip can al-o be adjust ed so as to dump quicker for a fast walking horse or slower for a slower walking horse, thus always giving you a clean windrow. The Steel Wheels are high and strong EGGS AND POULTRY

according to quality; horse hair, 30c to

33c a 1b.

It is to be assumed that there are no commission men in Canada engaged in doctoring eggs on the same principle as a men who hes just been indicted in the a men who hes just been indicted in the United States on a charge of selling doc-tored eggs. They were found to contain formaldehvie, and were absolutely rotten and unfit for human consumption. The volume of husiness on the local market is large but the hot weather is keeping prices stady at 19 to 19(i), a dozen in cuse loca. On the farmers' market, new-

cuse lots. On the farmers' market, new-lind eggs are selling at 35 to 27c a dos. In Montreal, selected stock is selling at the selling at 35 to 35 to 35 to 35 to 35 to 35 to poultry as follows: Turbers. 18t to 35 to spring chickens, 35 to 15 to a 1b, dressed; alve, 35 to 45 a pair.

#### HAY AND STRAW

Outoations for hay and straw are un-changed - Devlers quote No. 1 timothe 844 os 55 50; inferior outsilts, 841 to 875 50 a ton. On the farmers' market choice tim-ethy is seeling for 810 to 821 a ton; straw in hundles, 815 50 to 856, and loose straw. othy is selling for \$18 to \$21 a ton; straw in bundles, \$15.50 to \$16, and loose straw, \$8 to \$9 a ton. 'n Montreal, dealers quote No. 1 hav, \$15 to \$15.5': No. 2, \$13.50 to \$14; clover

mixed, \$11 to \$1150 a ton.

#### MILL FEEDS

is no change in the price of mill-Manitoba bran is quoted at \$18 a There is eeds. feeds. Manitoba bran is quoted at SIB a ton : shorts, \$27 a ton on track. Toronto. Ontario bran, S19 a ton; shorts, \$21 a ton, on track. Toronto. Montreal prices are: Manitoba bran, \$18; shorts, \$21 a ton; Ontario bran, \$1850 to \$19; shorts, \$21 to \$21.50 a ton.

#### FRUIT AND VEGETABLES

FRUIT AND VEGETABLES There is a glut of strawberries and cher-ries on the whole-vie market. Strawber ries are selling at 5 to 50 a box; cherries, a basket; för to 51.55; peas, 80e to 65c a basket; angargut, 84 a basket; heels (dozen), 40e; cucumbers, 82.55 to 82.50 a hamper; carrots (dozen), 40e to 58.40 On the farmer's market, letthere is sell-ting at & to be a bunch; there is sell-ting at & to be a bunch; there is sell-tio 25c a peek; green peas, 20c a measure.

#### DAIRY PRODUCTS

DAIRY PRODUCTS There is a steady demand for the higher grades of butter, and prices are well main-grades of butter, and prices are well main-ter and the steady of the start of the start wholesalers at 25 to 26 a start, choice dairy butter is selling at 22 to 26 a lb. In Montreal best creamery butter is model by dealers at 25 a lb. The Montreal butter at 18 to 120 a lb. The Montreal best creamery butter is model by dealers at 25 a lb. The Montreal term of the Iosal market and prices rule at 11% of rule are and 11% of twins; old the Montreal, wester cheese is quoted by dealers at 16: castern, 10% to 10% a lb.

#### HORSE MARKET.

Trade is still quiet in the horse market, although there are occasional glimpses of an awakening. There is not likely to be an awahening. There is not likely to be much doing until the farmers are through with their harvesting. Prices rule high. Heavy draught horses, 525 to 5325; med-ium, 5160 to 5220; agricultural and general purpose horses, 5160 to 5200; capressers, 5160 to 5220; drivers, 5120 to 5250; service ably sound horses, 540 to 540. an awaltening.

#### LIVE STOCK.

MANURE

FOR SALE

**UNION STOCK-YARDS, Toronto** 

The hot weather has certainly been having an effect on prices for stock during the past week. The demand for butcher cattle was distinctly weak in comparison cattle was distinctly weak in comparison with the week immediately preceding. There has been a marked shrinkage in values of milch cows. The chief feature, however, has been the large numbers of sheep and lambs placed on sale, which 3

Belleville, June Sales, 1010 at 10% ance refused 9 1-1 Brockville, June colored offered: 43 sold at 10% c. Ottawa, June 30.

ored offered: 260 Iroquois, June white cheese offer 11-16c. The rest a Kingston, June

colored cheese reg up at 10 9-16c to 10 Alexandria, June all white, sold at 1



The wheels and dump rods are interchangeable so that when worn at one end they can be reversed. The Rake will wear a life time.

See our Agent before buying

The state of the second second second



July 7, 1910.

July 7.

tended to we quoted 25c a ogs remain lowing quotat OPS

Export Catt m, \$6.25 to um, ewt Butcher cat: to \$6; ordinat ers' cows, me

a cwt. Heavy feede \$4 a cwt. Stockers-\$3

a cwt.

Milch cows-860: calves, \$3. Sheep-Ewes, lambs, \$7.50 to

Hogs-fo.b., a The Trade E dent cables: " MONTRE

This week's steady owing prices were w \$10 a cwt. for ever, the rece were forced do ed lots. There price. Dressed price. Dressed at \$13 to \$13.2 abattoir stock.

#### EXPORT BL

Montreal, Sat There has been cheese this we ally forced dow til 10% was rea was more doing steady. The cl markets of the but the great 1 sold at 10½c. 7 the general app which did not all. Cable ad Great Britain t of English chee terferes very m of Canadian, an Canadian cheess the stock of it is steadily accu was more doing steady. The cl is steadily accu a dampening eff ally, and unles again during th we may see stil

country. This week's rewere smaller th ed, and it is qu of this season's r are in for steadi now on. It look will not be any if as large. The make of to date is greate

iod at any time ceipts are gradu down and prices kets ruled from

lb. lower than There is a good poses, and also a this week's shipm 2,000 packages.

of which 560 sold St. Hyacinthe, of cheese sold at London, Ont., J ed. No sales; bid Cowansville, Qu cheese sold at 10% Stirling, June 2 sold at 10%c.

Campbellford, J ed: all sold at 10 Madoc, June 29. sold at 10 9-16c; 1

Woodstock, June and 1255 colored. Tweed, June 29.-ed, all sold at 10

Belleville, June

CHEES Kemptville, Jun of which 560 sold . 1

its: les, ep 30c

te

the

ket ing ew ew-z. at 17 m iote 20c: sed; ive;

un hv 13 50 0 p tim-raw aw,

av,

nill-8 a nto ton,

\$18: ) to

her

ber ries, ic a eets 0 a

sell-to 20e re.

ther

ain

oice lity,

c a airy and

is

on

old

oted

ket, s of be ugh igh. ned-eral sers, vice

ring cher ison

g. e in

.

nto

3 ure. s of

tended to weaken the price, even being quoted 25c a cwt. lower, and lambs, 50c. Hogs remain stationary in price. The fol-lowing quotations are given by the deal-

Export Cattle-choice, \$7 to \$7.40; medi-im, \$6.25 to \$6.75; ordinary, \$5.50 to \$6 um, ewt.

a cwt. Butcher cattle--Medium, to choice, \$5.25 to \$6; ordinary, \$5 to \$5.25 a cwt; butch-ers' cows, medium to choice, \$4 to \$5.35

ewt. Heavy feeders..\$4 to \$5.60; bulls, \$3.50 o \$4 a ewt. Stockers-\$3 to \$5.25; canners, \$2 to \$2.50

a cwt. Milch cows-850 to 875; springers, 830 to 840; calves, 83.50 to 85.50. Sheep-Ewes, 84 to 85; bucks, 85 to 83.50; Iambre, 87.50 to 83.50 a cwt. The Toch. 83.75; fed and watered, 89. The Toch. 83.75; fed and watered, 89. The Toch. 83.75; fed and watered, 89.

This week's market opened fairly steady owing to the light offerings, and prices were well maintained at 8975 to ears. Towards heided look, weighed off ears. Towards heided look, weighed off ears. Towards heided look, weighed off ears. Towards heided look offerings, and ever. for each offering and a start were forced down to ahous \$950 for select ed lois. There was a good demand at this price. Dressed hogs were in fair demand abattoir stock.

#### EXPORT BUTTER AND CHEESE.

EXPORT BUTTER AND CHEESE. Montreal, Saturday, July 2nd, 190. – There has been as very duil demand for cheese this week and prices were gradu-til forced down at country markets un-til forced down at country markets un-til forced down at country markets un-til forced down at country markets and the forced down at country markets and water of the week brought more mover, but the great bulk of the offerings were were as a start of the offerings were which did not seem discound to be trade which did not seem discound to be trade which did not seem discound to be trade of English cheese, the sale of which in Canadian cheese is being more is that canadian cheese is being more is that a dampening effect upon the trade rener-al dampening effect upon the trade sener-al dampening effect upon the trade sener-al dampening effect upon the trade sener-al of the secolity of the seek we may see still hower prices role in the start.

We may see afill lower proces rule in an country. This week's receipts from the country were smaller than was centrally expect-ed, and it is quite erident that the flush of this season's make is pays, and that we are in for ateadily declining receipts from now on. It looks as if this season's make will not be any larger than last year's— 't as here.

will not be any larger than last year's-if as large. The make of butter keeps heavy, and to date is greater than for the same per-iod at any time since 1900. The large re-cepts are gradually forcing this market down and prices at to day's country mar-line to the same size of the same size of the larger size of the same size of the same size to the same size of the same size of the theorem size of the same size of the same poses, and also a fair demand for exora, this week's shipmenta amounting to almost 2000 nackages.

2,000 packages

#### CHEESE MARKETS.

CHEESE MARKETS. Kemptville, June 25.-455 kows registered of which 500 sold at 10%c. Fil. Hyneithe, Que, June 25.-400 boxes Fil. Hyneithe, Que, June 25.-400 boxes (June 10%c) (June 25.-465 boxes offered to asiles: bidding, 10%c 10% boxes unsold Stirling, June 28.-495 boxes offered; all Gambelling, June 28.-495 boxes offered; all Gambelling, June 28.-495 boxes offered; all

Cambellord, Jane 28-120 bares board Cambellord, Jane 28-120 bares board ed. al. sold at 10 114/c. Madoc, June 28-200 bares boarded 415 sold at 10 916c halance refused this. Wocdstock, June 28-207 white cheese board Tweed, June 28-207 white cheese board Bales. 100 at 10% and 32 at 10 916. Bal-ance refused 9 1.16c to 9%. Brockville, June 30-1758 white and 2956 colored offered; 430 colored and 400 white sold at 10%.

colored offered; 430 colored and 400 white sold at 10%; Ortawa, June 30.-464 white and 525 col-ored offered; 500 sold at 10%; Iroquois, June 30.-459 colored and 310 white cheese offered. One lot sold at 11 13.50. The rest at 11%; One offered cheese registered. A good clean up at 10.9466 to 10%; Alexandria, June 30.-625 hoxes of cheese, all white, sold at 10%;

Russell, June 30.-275 white and 60 col-ored boarded. All sold at 10%c. Winchester, June 30.-120 colored and 998 white registered. A few sold on the board at 101/

Picton, July 1. — 2184 coloured cheese boarded: highest bid 10 11-16c; 1730 sold at 10 11-16; 75 at 10%c; 200 at 10 9-16c. Balance unsold.

unsold Napanee, July 1.—1880 white and 430 col-ored boarded; 1315 sold at 10%c.

#### GOSSIP

GOSSIP There are many devices for producing sanitary conditions in stables and for the saving of labor and time, though nore the saving of labor and time, though nore hand bairy readers contemplating alter-tions or improvements, or planning to construct new stables, should write this first for their stallog and their recent firme for their stallog and their recent firmed "or their stallog" and their recent firmed to stable construct and stable con-stable the stables should write this there for their stallog and their recent firmed to the stable should write this there for the stable should write this there for the stable should be the stable should be the stable should be should be should be should be the stable should be should be should be should be the should be should be should be should be should be should be the should be should be should be should be should be should be the should be should be should be should be should be should be the should be should be should be should be should be should be the should be sh truction.

The Western Fair, London, Ont. takes place this year September 2th to Jith. The prize list is printed and ready for distri-bution. \$100,000 has been added to the list this year in the Live Stock Departments. This advancement in prizes should make this popular Exhibition more attractive the popular Exhibition more attractive dealers. I for Live Stock breeders and dealers, a for Live Stock breeders and dealers, other thought in any of the buildings, other thought in any of the secretary. A. M. Hunt, should be com-municated with at once in order that satisfactory arrangements may be made.

#### FLIES IN SUMMER TIME.

FLIES IN SUMMER TIME. When one considers the hours of tor-ment and misery to which our dumb friends are subjected in the patture or tied in close stalls and attacked by mil-lions of flies and mosquitoes, or hard at yet con the fields or on the roads, and yet con the fields or on the roads, and yet con the fields or on the roads, and yet con the fields or on the roads, and yet con the fields or on the roads, and yet con the fields or on the roads, and yet con the fields or on the roads, and yet con the field of the second insects while they are working the that such a remedy against the fly pest as that such a remedy against the fly pest as the United States for has been in use in the United States for has been in use in years, and is marketed in this country william Gooper and Nephews, of Toronto, a branch office of the famout (copper Dip People of Great British used, it his fly preventative has been used, it has been in the set of the the United Stockmen, particularly distry-men. It is extremely cheap. One gallon properly applied will keep S5 cows free from files for two weeks at a cont of less then half a cent as day. This remedy is stores throughout the country, and we neg-tores throughout the country and we neg-tores througho

**HOLSTEIN-FRIESIAN NEWS** 

3

3

Farm and Dairy is the official organ of The Canadian Holstein - Friedan Association, all of whose members are readors of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this solumn. ş 5

3

rC

Dr. Bell's Veterinary Medical Wonder cures inflammation of lungs, bowels and in every county. Write for a free trial \$1 bottle. This offer only off of 6 days. Limited to go bottle. DR. BELL, V.8., Kingston, Ort.

MISCELLANEOUS TAMWORTH AND BERKSHIRE SWINE

Boars and sows for sale. J. W. Todd. Corinth, Ont., Maple Leaf Stock Farm. Ett TAMWORTHS AND SHORT HORNS FOR SALE

IAmmunino Anu onuni nunno run catte Soveral choice young sows sired by Imp. Boar, dams by Colvills Choice, Canadas berd to young stock hog. Also a few ma-tured sows. A few very choice yearing and two year old Shorthorn heifers. First class family. Excellent milking strain. Prices right.

A A. COLWILL, Box 9, Newcastle, Ont

Holstein points, the Quebec branch of the Holstein Priesian Association of Canada, recommend the following judges, with a view to fill the want: Neil Sangeter, Ormatowa, Que. Prof. H. S. Arkall, Dominion Dept. of Agriculture, Ottawa. Prof. Barton, Macdonald Agricultural College, St. Annes. J. H. Grisdale, Dept. Agriculture, Otta-wa.

J. H. Gradane, pept. astronomy Pelix Ashby, Marieville, Que, Antoin Ashby, Marieville, Que, Leeroix, Contrecour, Que, Andien Boa, Lachute, Que, Carl Sweet, W. Smiton, Que, Carl Sweet, W. Smiton, Que, Jon. B. Arriand, Sorel, Que, D. H. Brown, Beith, Que, John Tannahill, White Sita., Que, John Tannahill, White Sita., Que, Austin Clemons, Dept. Agriculture, Que, Garceau, Three Bivers, Que, F. E. CAME, F. Boanch, H.-F. Assoc. of Cam-

Sec., Quebec Branch H.-F. Assoc. of Can

#### AYRSHIRES

#### AYRSHIRES

One young cow freshening about June 25th. One bull calf, dam and gr. dam on sire's side, both R. O. P. cows. Also bull calves from Record of Performance cows. Prices right.

JAS. BEGG, Rural No. 1, St. Thomas. Ont

#### BURNSIDE AYRSHIRES

Presh importation just landed of 12 of the choicest young hulls I have ever land-ed. from the best hords in Scotland, such as Osbornes. Auchenbrain's, Netherhall. Bargemoch, Barr of Hobsland and Mitchell of Lochfergus all fir for service. Also in famale cover, Syrear olds, and Banklows, Syrear olds, Stear olds, and consellided R. R. Mess, S&NO Burnside Stock Farm, Howick, Que.

CHERRY BANK STOCK FARM

Have yet one yearling bull fit for ser lee, a good big fellow with lots of quali y also three last fall bulls. Females, any ge, and calves of either sex. Write for

P. D. McARTHUR, North Georgetow % mile from Howick Station. Que



ROBT. HUNTER & SONS

Masville. Ont Long distance phone

#### AYRSHIRES

Ayrahires of the right stamp for pro-duction combined with good type and quality. Write for prices. 0-12-22-10 R. M. HOWDEN, St. Louis Station, Que

"La Bols de la Roches" Stock Farm Here are kept the choicest strains of VYRSHIRES, imported and bome bred VORKSHIRES, of the best bacon types, WHITE ORPIVATON, WHITE WYAN. DOTTES and RIRRED ROCK Ponitry. HON. L. J. FORGET, J. A. BIBEAU, Proprietor Manag

Manager E-5-26-10 Ste. Anne de Bellevue, Que.

#### HOLSTEINS

FOR SALE.--Cornella's Posch, five times ist prize bull at Toronto and London Fairs: also five of his sons, all from rec ord of meril cows. Also females of all sees ages.

THOS. HARTLEY Downsview, Ont

#### LAKEVIEW HOLSTEINS

Count Hencerreid Payne De Kol head the herd. His sice, Pietertje Hengerveld Count De Kol, is the size of the world's days. His dan, Grace Fayne 2nd, has 25.30 has, butter in 7 days, and is the dam of 47nce Fayne 2nd Showierd, the world's champion butter cow, over 15 the heatter in 7 days. Buil calters for sale.

#### E. F. OSLER, Bronte, Ont.

HOLSTEINS-Winners-in the ring and t the pail. Gold Medal herd at Ottawa They combine Conformation and Produc-

tion. Bull and Heifer Calves from our winners for sale.

for sale. "LES CHENAUX FARMS" Vaudreuil, Que. DR. MARWOCD, Prep. D. BODEN, MgT TF J. A. CASKEY, Box 144, Madoc, Ont

HOLSTEINS

19

## **BULLS! BULLS! BULLS!**

A less than half their value for the next 30 days. Write

GORDON H. MANHARD MANHARD, ONT., Leeds Co, 3-11-10

#### HOMESTEAD HOLSTEIN HERD

Headed by the great young site, Dutch-land Colantha Sir Abbekerk. Dam. Tidy Pauline De Kol, botter 7 days, 23.44. Sire's dam. Colantha this Johanna, butter 7 days, 35.2. Average of dam and sire's dam, 31.33 ibs Buil calves offered, one to seven months Buil calves offered, one to seven months old, from dams up to 25% ibs. butter in 7 days.

EDMUND LAIDLAW & SONS Box 254 Aylmer West, Ont

#### RIVERVIEW HERD

Offers bull calves at half their value for the next 30 days. One ready for service, one sired by a son of King of the Pontiac, dam daughter of King Segis. Record, 1837 lbs. butter, 7 days, as Jr. 2 year old. P. J. SALLEY

E-10-6-10 Lachine Rapids, Que.

GLENSPRINGS HOLSTEINS Three First Young Bull Calves, from A. R. O. and R. O. P. cows for sails. Also OCUNT GERBER 443, hoorn April 24, 1904. Dam, Shady Brook Gerben Parthon Greben. Dam, Bn Gerben Butter in 7 days, at 3 yrs., 16.16. Butter in 7 days, 26.11. a. Constant of the second secon Sire, De Kol 2nd.

E. B. MALLORY, Frankford, Ont

SUMMER HILL HERD REGISTERED HOLSTEIN CATTLE

REGISTERED HOLSTEIN CATTLE
 REGISTERED HOLSTEIN CATTLE
 This year our herd has made two worlds flected, and two Guandian Research and two Guandian Research and the second for the seve 16.86 here will be world's flected and the second for the seve 16.86 here will be world's flected and the second for the second fo

D. C. FLATT & SON, Millgrove, Ont

LYNDALE HOLSTEINS

We are now offering for sale a 13 mos. old son of "Count D. Kol Pretertij Paul" out of a 20 lb dam: also a son of Sara Hengereid Korndyke, from an 18 lb. cow. Both choice individuals, fit for service. TF BROWN BROS, LYM, ONT.

EDGEMONT HOLSTEINS

For sale, one yearling bull, fit for ser-vice; also bull calves from Record of Per-

Do you want a first class Cow or Heifer

be you want a net class cow or Heifer bred to a first class bull? Francy 3rd's Admiral Ormsby heads our herd. Dam, Francy 3rd, Canadian Champion Butter Cow. Sire, Sir Admiral Ormsby, eire of the world's champion 2 year old heifer.

Q. H. MCKENZIE,

Thornhill, Ont.

formance Cows.

E.T.F.

R. R. No. 2.

## PEDLARIZE FOR FIRE-PREVENTION

DE READY for fire, by all means. Provide every possible means for D putting it out. Equip your house, your barn, all your buildings, with water-buckets, chemical extinguishers-hose and water pressure if possible. But pay even more attention to fire-prevention! build, or remodel the buildings you have, in such a way that fire will have the least chance to harm them. Lessen your fire riskespecially if you live in a frame house.

## The Average Frame House Is A Fire-Trap

Fire did 856,600 damage in Canada every day of 1900/ More than eixty per cent. of that great loss was on frame bulldings! Naturally. For, even in the cities, with their up-to-date ine-fighting outfits, firemen count the ordinary frame house a "goner" once the flames get a real start. The frame-house on fire is inder-box-ris inmates are lucky to escape with their lives-even in the cities. How are you fixed today to fight fire in your dwelling?-in your kitchen late yourgging of H if intervent of the start of the start tonight, would you and your folks get out alive?

If your barn caught, would your stock be saved? And, even if you were lucky and only the buildings suffered, would issurance repay you for your losses? You risk a very great deal if you live in a frame hours; or if you have anything valuable in a frame barn. Yet you can do much to prevent fire. And you can, easily and chenply, practically isolate every room in your house so perfectly that—if fre does start in any room—the fire can be confined to that room alone. Pedlarizing will do that, and more.

## Pedlarizing Reduces Fire Risk Fully 80 Per Cent.

"Pedlarizing" is sheathing any building, inside and out, with **Fireproof** sheet **Steel**—in the several forms illustrated by the pictures here. For the roof, Oshawa Steel Shingles, guaranteed to make a good roof for 25 years or a new roof free. For the outle walls, Pedlar Steel Siding—surfaced to imitate brick, cut stone, dressed stone, etc. For the ceilings and sidewalls of the interior, Pedlar Art.Steel—more than 2,000 beauti-fully embosed patterns. A balloon frame of cheap lumber, with the necessary trim, flooring, and some

furring, and these Peillarizing materials, make a stauncher, handsomer house than any frame building ever was and make the building eighty per case. less liable to fire domage than the usual type of brick building. Such a structure is practically for-peroof. There is nothing about it to burn except the urmishings, floors and doors. Yet such a building is most economical in first cost—and cheaper than even a brick building in final cost, because it will outlast one.

### Fire-Prevention By Pedlarizing Costs But Little

Whether you are erecting a new house or barn, or you think of repairing an old one, you will do well to inquire well into this Pedlarizing proposition. Con-sult with us first, and then with your builder or architect. Hold no prejudice against sheet steel for interior finish because it is comparatively new; don't think there is anything cheap-looking about Pedlar Siding for outer walls; don't imagine wood-shingles are cheaper than Oshawa Steel Shingles. Let us tell you the reasons for your choosing this practical, most conomical and most effective way to **prevent** fire and to minimize fire-damage to the lowest degree. Let us

make it plain to you that many of the so-called "fire-proof" buildings in the big cities are not so well-guarded against fire as a frame-skeleton plated with Pedlar steel in the way we have outlined here. Any fire-insurance agent will inform you on the difference in the rate as between a frame house and a Pedlarized house. You will then see that this one item alone saves a good slice of the cost of Pedlarizing. Yet such a construction as we have suggested above is actually cheaper by twenty per cent. than an ordinary frame building! Nor does it require experts to erect it. Consult us for fu!! details. Write us to-day.

### Pedlarizing Does Much MORE Than Fire-Proof

## Protects

Pedlarized buildings are wholly free from dampness. The inner walls

Protects Pedlarized buildings are wholly free from dampness. The inner walls will not "sweat," because there is a dampness dead-air space between them and the Pedlar Siding of the outer walls. And this same dead-air space, formed by the studding, makes a perfect barrier to dampness penetrating from the outside. Oshawa-shingled roofs are rain-tight, as well as fire-proof and lighting-proof; and they are so rentilated that, although water-tight (gurannteed for 25 years) they will not sweat on the under-side as common shingles must. common shingles must

Cattle thrive better in Pedlarized barns. You save on feed, too, by Pedlarizing; for the stock do not have to eat so much for bodily warmth's sake. You see, Pedlarized buildings are easier to keep warm in winter. The sheer sheet steel that armore them against fire also helps bar out the cold. Pedlarizing makes houses windtight. In fuel saved alone you regain your outlay.

whole interior can be scrubbed with antiseptes and made **really** sanitary. Any room in a Pedlarized house can be kept clean with the least effort. Pedlar-izing makes buildings healthful—as well as **fireproof**, damp-proof, warmer in winter, cooler in summer.



Oshawa Shingles protect any ref perfectly. Good for 100 years. Guaranteed for 25 years. Cost little.



Pedlar Steel Siding armors a building against fire and wet. Handsome enough for any place. Many patterns.



Pedlar Art Steel Ceilings adorn and protect. Cannot crack. Seams invisible. Hundreds of new styles ready.



Pedlar Art Steel Side Walls are sani-Washable. Beautiful to tary. look at. Easily put on. Fireproof.



HALIFAX CHATHAM

312

ST. JOHN, N.B. 42-46 Prince William St. PORT ARTHUR QUEBEC 127 Rue du Pont WINNIPEG

Executive Offices and Factories-Oshawa, Ontario OTTAWA 423 Sussex St. CALGARY 1112 Fint St. West

You are welcome to Handsome FREE Booklet No. 9

**Price Lists and Full Information** 

The PEDLAR PEOPLE of Oshawa Write Pour

MONTREAL 321-3 Craig St. REGINA 1901 Railway St. S.

TORONTO LONDON 111-113 Bay St. 86 King St VICTORIA 434 Kingston St. VANCOUVER 821 Powell St.