Toronto, October 28, 1902.

ORONTO

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FARMERS STOGRA

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THERE is positively nothing so necessary in this country as a fur overcoat. Especially is this so when you live outside the cities. We make a specialty of such coats, We make every one on the premises from specially selected fur which we buy direct. Here are a few lines now in stock:

Men's Wombat Coats, strong fur, well tailored and lined with farmers' satin. Fifty inches long in any chest measurement	17	80
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Rocky Bear Robes. A good strong pelt, 50x60, well lined and trimmed. Special.		50
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Write for Catalogue and Price List of other fur garments.

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WE ARE THE LARGEST FURRIERS IN CANADA

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# The Farming World

## For Farmers and Stockmen

VOL XXI.

#### OCTOBER 28th, 1902

No. 18

#### Important Announcement



HE Farming World, with its next issue and early in its twenty-first year of publication, enters upon a wider field of usefulness

and prosperity. A strong Canadian company with a capitalization of \$250,000 has been formed to take over the business. This company has purchased the Canadian edition of Farm and Home a paper with a wide circulation and influence in all parts of the Dominion. This paper will be merged with the Farming World into one large publication to be known as The Farming World and Farm and Home.

The Farming World in its new form will be made larger and better and each issue will contain much more reading matter than is given at the present time. Its readers will have the advantage of The Farming World's present edidition will be benefited by a largely increased corps of contributors in all parts of Canada. The home department will be greatly enlarged and every effort made to make the paper the great family and home journal of the Dominion.

We look for every present subscriber to The Farming World to aid us in extending its circulation and influence. Special clubbing rates and premiums offers are being arranged for, full particulars of which will appear in next issue. In the meantime talk the matter up among your friends and neighbors and get ready to send in a big clubbing list for Canada's great Agricultural Journal.

#### Farmers' Telephones

Farmers' telephones are making rapid progress in the United States and especially in the middle West where thousands of telephone lines are in successful operation. In these districts the idea of the farmer owning his own telephone line is spreading, and a great deal of interest is being taken in the movement. Farmers usually get together and furnish the poles, each strings a half mile of wire, buys

and sets up a telephone, and the movement is under way. At a total cost of not over \$25.00 per subscriber for the outfit and an annual expense of from 50 cents to \$5.00, the line pays for itself the first year. The telephone is not a complicated piece of mechanism, no more so than the sewing machine, and anyone with ordinary intelligence can instal and repair a telephone under proper directions, which are now supplied by the companies who are making a business of supplying farmers' telephones.

The movement has made some progress in Canada, and every short while we hear of a new locality that has taken the matter up and installed a system. No modern invention will bring more comfort, more pleasure and more benefit to the farmer than a telephone in his own home. It will bring him in direct touch with the outside world. He has ready access to the doctor, the grocer, etc., and can find out in a moment's and time how the markets are when he should sell his products.

# The Mutton Sheep

At no time in the history of stock raising has so much attention been given to selection as at the present time. More than ever must the animal be suited to the purpose for which it is being raised or fed. The successful cattle feeder wants an animal of the beef type. So with the mutton sheep, an animal must be secured that will produce the best quality of mutton at the lowest possible cost.

The ideal mutton sheep must have good legs that come to the ground squarely and give every indication of possessing power and strength to support the body. The best judges do not desire fine bone in a mutton sheep, as it indicates a lack of vigor and hardness and an inability to feed well. A long. narrow face is also a weakness in the mutton type, a short nose and broad face are to be preferred. - A 'ewe neck," or drop in front of the shoulders should be avoided. mutton sheep is never without good depth from the top of the shoulder, and a point midway between the fore legs, and good heart girth. Avoid a prominent back-bone or spine, as it is an indication of a deficiency of flesh along A good mutthe back and loin. ton sheep should be close coupledthat is, the distance between the last rib and the hip points should

be comparatively short. A good thigh will also be iound on a good nutton sheep. The wool is of minor importance, though it must be considered in connection with the other points of the carcass. These are some of the prominent features to be considered in selecting a mutton sheep.

# Cold Storage for Apples

The New Hampshire Experiment Station for several years back has been conducting a series of experiments in putting apples in city cold storage. The following gives a summary of what has been done:

On November 20th, 1899, a number of barrels of apples were ship-ped to one of the Boston cold storage houses. Beginning with Feb-ruary, two barrels were taken out each month until July and examin-The fruit did not receive any ed. extra care and was representative of apples as ordinarily purchased at that time of year on the open market.It was found that the apples could not safely be allowed to remain after April 1st, as they decaved rapidly after that date. The prices at time of shipment ranged between \$1.25 and \$2.00 and on April 1st they brought \$3.50 to \$4.25.

On October 27th, 1900, a second shipment of apples were sent to cold storage with the following results. Price when put in storage, \$1.25. On April 23rd ten barrels sold for \$34.00. Expense, carting, 50c., commission 8 per cent., \$2.72. Net proceeds, \$30.78 or \$3.08 per barrel. Freight and cold storage charges must be deducted from The storage rates this amount. were 10c. per bbl. per month, or for the season ending May 1st, 35 to 50c., according to the number of The freight charges can barrels. easily be found out according to the location of the individual.

The greatest care in handling and placing the fruit immediately into cold storage pays for the extra trouble. One must understand that cold storage will simply retard and not prevent entirely the spread of decay. If the fruit is in prime keeping condition on entering it is likely to come out in proportionately as good condition.

Our recommendation would be to pick the fruit relatively early, a trifle earlier than the common custom. Use only the best grade for storage, and pick, grade and ship the same day if possible. The sooner the fruit is in storage after it is picked and cooled down to an

even low temperature, the better it keeps. Do not expect impossibili-ties of cold storage. It never makes an ill-shaped apple shapely, an unsound fruit sound, a wormy apple perfect, or a pale, sickly, immature fruit bright colored. The apple cannot be expected to increase in size or overcome rough, careless treatment it perchance may have received before going in. With a proper knowledge of the conditions carefully complied with, there seems to be no question but what the practice of placing ap-ples in cold storage can be recommended.

#### Salt for Farm Animals

Many farmers do not realize the great importance of salt for all farm animals. Even pigs and sheep are benefited by a moderate addition of salt to the ration. Salt is said to increase the activity of the secretion of the body juices and their circulation. Prof W. A. Henry gives the following sound advice on the uses of salt on the farm:

Salt stimulates the appetite of the animal and is said to favor the passage of the protein substances from the digestive canal into the blood, and in general to increase the energy of the vital processes. If these claims are true, and we may suppose they are, then the use of salt, in moderate quantities, at least, should prove beneficial with our farm animals.

It is further reasonable to assume that where animals are heavily fed with concentrated feeds, like dairy cows, there is real need of salt to effect the results above indicated. Probably animals, which are not highly nurtured and which live in a quiet, natural way, have less need for salt than those living under more artificial conditions.

Some experiments have been reported in this country in which salt has been withheld and then given to dairy cows. The result seems to show the strong necessity for salt. The writer has believed that these experiments were too brief in time allowed and too limited in character to be of much value. Some salt work is now in progress at the Wisconsin station, but we are not ready to publish any results as yet. We always feed salt to all our

We always feed salt to all our hogs at the station farm, and while we cannot speak positively as to the resu-ts, we believe on the whole that they are favorable. We admit the weakness of this position from the experiment station standpoint, but we cannot settle all problems at once in the great field of agriculture, and until we can do so we are practising what seems to be a more reasonable practice in this particular.

#### Licensing Cheese Factories

Editor THE FARMING WORLD :

I have read with interest the articles in your paper in reference to licensing cheese and butter fac-

I am of the opinion that if all factories were licensed that it would be a move in the right direction. Let the standard of efficiency be fixed by a committee of up-to-date dairymen. Charge a fee of \$20 or \$25 and devote this money to the work of instruction and inspection. Have the instructors appointed by the Government and give them the power to close up these filthy factories that are a disgrace to the business and to see that all factories are kept in proper condition. T. B. Miller. London, Ont., Oct. 20th, 1902.



# The "NATIONAL" Cream Separator

The "National" is a purely Canadian made machine throughout, which cannot be said of some others. Intending purchasers are invited to call at our factory in Guelph, where they may see the machine and all its parts in course of construction.

# Superiority of the "National"

It possesses all the strong points found in other Cream Separators, while it is free from objectionable points that make other machines hard to run, and a source of trouble to those who oper, at e and clean them.

The National is simple in construction, handsome in design, and finely finished; easy to operate, and few parts to clean; a perfect skimmer with a larger capacity than any other separator at the same price. Every machine guaranteed to do good work.

Capacity of No. 1.-330 to 350 lbs. per hour.

Capacity of No. 1 A-450 to 500 lbs. per hour.

Give the "National "

#### a Trial.

GENERAL AGENCIES

Creamery Supply Co., Guelph, for South-western Ontario. T. C. Rogers Co., Guelph, for Ontario North and East. Jos. A. Merrick, Winnipeg, for Manitoba and N. W. T Mawyacruster av

The Raymond Mfg. Co. of Guelph, GUELPH, ON TARIO.

Limited

# The Sugar Beet World

Devoted to Sugar Beet Culture in Canada and Allied Industries. Specially Representing the Farmers' Interests

### Edited by JAMES FOWLER

reach the consumer at anything like the actual cost of production, it will find a very large field in every part of the country.--World.

#### Utilizing the By-Products.

The agreement between several European countries which pay bounties on all beet sugar exported to discontinue the practice after 1903, is causing farmers in those countries to look more closely into utilizing the by-products of the beet, so as to make up, to some extent, for the loss of the bounty which has made the business very profitable. Frank H. Mason, U. S. consul-general at Berlin, sends a report of a recent meeting held by those interested in the beet sugar industry, at which action was taken looking to improved processes for utilizing these by-products. The report savs:

"As an indication of the direction in which progress is now being sought for and promoted among sugar-beet growers may be cited the proceedings of a recent meeting of the Verein der Deutschen Zucker Industrie, a national association of beet culturists and sugar manuto offer a prize of 10,000 marks (\$2,380) for the best process which can be devised for drying beet leaves and 'heads'—i.e., the top which is cut off when the sugar beet is trimmed preparatory to grinding. The desperate condition in which the beet-sugar industry will be left by abolition of export bounties compels anew every possible economy in the conservation and use of each element in the raw material. This use of the pulp, leaves and waste molasses as food for cattle is a chapter of the general subject which has hitherto attracted comparatively little attention in the United States. Its importance in Germany, as well as the present technical status of the leaf-drving process in this country, will be indicated by the conditions of the tests which competitors for the prize must be prepared to meet. These as officially announced on the 27th of June, are as follows: "I. Leaves and heads dried by

"T. Leaves and heads dried by the competing apparatus or process shall not contain water in excess of 12 per cent.

"2. The prepared product must be of good form and condition, as free as possible from foreign substance and smell, and not scorched or burned.

"3. The loss of soluble nutritive elements in the dried leaves as compared with fresh leaves shall not exceed 15 per cent.

"4. The working cost of the process, including depreciation and wear and tear of plant, shall be in

such relation to the fodder value of the product that it will be, when properly installed and managed, economically profitable."

Manufacturers in Michigan are also taking steps to utilize the beet pulp in the feeding of live stock, and also the waste molasses. The factory at Alma, Gratiot Co., has put in machinery for drving the drving the pulp so that it can be shipped by rail, and keep in good condition until fed out. Some farmers are also testing the value of the beet leaves as silage, and we suppose the top goes with the leaves. If this practice proves a success, there will be no need of adopting a more costly process for their preservation.—Michigan Farmer.

#### Sugar Beet Experients in Nebraska

The sugar beet experiments included tests of varieties, tests of fertilizers, distance of planting, time of planting, methods of cultivation, and the treatment of sugar beet diseases. Mr. A.T. Wianeko gives the following summary of the results:

A test of thirty-seven varieties under similar conditions showed a wide variation in the total amount of sugar produced per acre, the Original Klein Wanzlebener occupying first place.

A comparison of light and heavy soils for sugar beet production showed a considerably higher sugar content in the beets grown upon the heavy soil.

Slight increases in the yield, sugar content, and purity of beets were produced by the use of commercial fertilizers, but their use did not seem to be profitable upon the land where the tests were made. Of the different classes of fertilizers used the phosphates gave the best results.

A comparison of different depths of cultivating sugar beets was in favor of about four to five inches as compared with six-inch or two to three-inch cultivation.

The most satisfactory distance of planting was found to be 18 inches between rows and eight inches between plants in the rows.

A comparison of the sugar content of beets grown among weeds and on clean ground showed that the presence of weeds may very materially affect the quality of the beets.

The fresh growth of the beets induced by the wet weather during September was found to result in a rapid reduction of the percentage sugar content of the beets, but the results of extensive determinations indicate that unless the fresh growth is accompanied by buds upon the crowns, there seems to be

#### Beet Sugar and Alcohol.

France has made more progress in the production of alcohol for manufacturing and industrial purposes than any other country. The Republic has no petroleum wells, and its necessities in this respect have caused the government to give particular attention to the production of alcohol. We notice that a distillery is to be started in To-ronto for the producing of alcohol for commercial purposes, and both those who are engaged in the undertaking directly and the public generally cannot do better than direct their attention to the industry in France where it has reached such a high stage of development. A month or two ago an exhibition was held in Paris, under the direction of the French government, showing the possibilities of alcohol in the various fields where it is serviceable. This exhibition was a most extensive affair, and it showed that alcohol has an immense field in domestic and industrial French economy has sucuses. ceeded in producing alcohol at a price very near to that of petro-leum and it is hoped, when the government relieves the manufacturer of certain unnecessary charges that the price will be brought down to the level of petroleum. The uses to which alcohol is al-ready put in France include the operation of motors for all purposes, lighting, heating and very largely for the propulsion of auto-mobiles. Used in connection with the Welsbach mantle, alcohol produces a magnificent light, and French manufacturers have designed hundred of styles of lamps varving from the plainest kind to those of a highly ornamental char-acter. Alcohol stoves are extensively manufactured and sold, and the use of alcohol in the motor vehicle trade is rapidly increasing. Its freedom from smell, its comparative safety, its cleanliness, render it much more satisfactory than coal oil or gasoline. The ar-ticle is produced from beet roots in France, and in connection with the exhibition there was a graphic illustration of the whole process of manufacture, from the planting of the beet to the distillation of the liquor. Now that Canada has started in the production of beets for sugar the establishment of a distillery for the production of alcohol as a by-product follows as a matter of course. There is no reason why alcohol should not be produced as cheaply here as in any other country, France not excepted. There is a wide field for the industry in this country, but we imagine it will need recognition from and encouragement by the govern-ment. If commercial alcohol can no real loss of sugar—the beets seem to increase in size and weight, while the sugar remains at a standstill.

The season's experience showed to a remarkable extent the dronth-resistant qualities of sugar neets, in which respect they were found to be superior to any crop upon the farm except alfalfa.

#### Some Points in Sugar Manufacturing

The liquid which goes into the receiving tank is about the color of vinegar, and contains not only the sugar in a liquid form but some impurities. To get rid of these impurities the liquid is carried along to a tank where about to per cent. of milk of lime is mixed with u, carefully stirred and then carried along to a carbonation tank.

The milk of lime employed is very pure and high in carbonate of lime and when mixed causes the lime to crystalize. The liquid now is carried into a filter press, which made up of a long series of iron frames operated by hydraulic pressure. The lime which has taken up much of the impurities is removed thus, and when discharged has an appearance resembling putty. The liquor, which is rendered clear and trans parent, now undergoes a second similar operation, except that it is mixed with a smaller percentage of milk of lime.

From this point it is carried to what is known as the sulphuring station, where sulphur is introduced to remove any impurities which may still remain.

The liquid is now sent to concentrators, usually known as quadruple effect evaporators. On entering the evaporators the juice is thin, containing about 14 per cent, of solid matter, and on leaving them is known as thick juice containing about 62 to 65 per cent, solid matter.

#### How Yankees Become Colonels

Canadians will appreciate the following extract from The Farmers' Tribune, a leading farm paper in the Western States, as it throws some light on how the Yankee Colonel is produced:

"A subscriber asks the Tribune why all live stock auctioneers are called Colonel. At first thought we were going to give up. In a para-graph in the Tribune some time ago we answered it from what information was at hand. Since that time the Iowa State Association of Auctioneers have been wrestling with the problem. They believe an auctioneer "should tarry" in Jerico until his beard has grown," or until the title of Colonel has grown, and that the time of probagrown, and that the time of proble-tion should be until he had offi-ciated in securing bids for live stock at 1.000 or more sales. The title of Colonel is acquired differently in different states. In Kentucky a large tall man with a long coat and wearing a broad brimmed hat is called Col. In Georgia a man who takes it "straight" is

called a Col. In Alabama, and some other of the southern states a man who will d-m a nigger is entitled to the handle. In many of the states it is like the rain that falls from heaven, it falleth upon the just and the unjust, and like the quality of mercy, is not retained by a society of auctioneers. Of course it is now understood that the title has nothing to do with military service and if there be any reason why a man who sells live stock should be thus breveted more than the man who sells grain or agricultural implements, or even the land upon which the cattle roam, it has not been stated. But there is no use of inquiring why this thing is thus, for men may come and men may go but the Colonels will go on forever."

#### •••

#### A Great Demand for Pulp

This is going to be a good winter for testing the value of beet pulp as a stock food. At all events there is a great deal of it being led, though it is fed mainly in a way to test its commercial value rather than its food value. Through the west the shortage of the corn and other feed crops last summer makes the demand for beet pulp extraordinary, and beet growers

are not only taking their quota of pulp returnable to them under their contracts, but a ready market is found for the surplus among the local feeders of sheep and cattle. The sheep in particular are taking very kindly to pulp, so that much of the mutton which goes into mar-ket from this locality next spring will be made of beet pulp, says the Rocky Ford, Col., Enterprise. Cattle also are being fed up to the limit, especially milk cows and young stock, and only so much corn and hay as are absolutely needful to finish and fit the meat animals for market will be fed. Some days of this week a line of wagons could be seen reaching from the pulp spout on the north side of the factory out to the scales house, waiting their turn to load. And so much larger is the demand than the supply coming from this spout that local feeders have engaged cars and had them loaded at the car spout and pulled down on to the siding down town, where their wagons can load without waiting.

#### ----

Grandpa. -- Well, Horace, we haven' caught any fish; it's hard lines.

Horace .- But we had good luck digging worms.



# The Agricultural Gazette

The Official Bulletin of the Dominion Cattle, Sheep and Swine Breeders' Association, and of the Farmers' Institute System of the Province of Ontario.

#### THE DOMINION CATTLE, SHEEP. AND SWINE BREEDERS' ASSOCIATIONS.

#### Annual Membership Pess ;---Cattle Breeders', \$1 ; Sheep Breeders', \$1 ; Swine Breeders', \$1. BENEFITS OF MEMBERSHIP.

BENEFITS OF MEMBERSHIP.
Tach member revelves a free copy of each publication issued by the Association to which he belongs, further the synchronic property of the same freeders'. In the case of the synch freeder's Association is allowed to register pigs at 50°, per head; non-members are charged \$1.00 per head.
A members are charged \$1.00, is the member and the stock the tass for sale are published ince a month, or provide the synchronic provide the synchronic property of the synchronic provide the synchron

#### List of Stock for Sale. TURKEY CLUB.

Bronze

Beattie, W. H., Wilton Grove.-4 yearling cocks, 2 cocks 2 years, 4 yearling hens, 3 hens two years, 50 pair young birds. Bell, W. J., Angus.--to cockerels,

5 pullets, 2 cocks 2 years, 2 hens

2 years. Cole, T. J., Bowmanville.-15 2 years. Cole, T. J., Bowmanville.—15 young birds. Mitchell, Jas. B., Bexley.—34 hens, 4 cocks 1 year. Silverwood, A. E., I.indsay.—50

young birds.

#### White Holland.

Beattie, W. H., Wilton Grove .- 2 yearling cocks, 4 yearling hens, 20 pair of young birds.

#### Slate

Beattie, W. H., Wilton Grove .-- 2 yearling cocks, 2 yearling hens, 8 pair of young birds.

#### FARM HELP EXCHANGE.

<text><text>

#### Help Wanted.

Wanted-A man who has had some experience with cows and is a first class milker and good general farm hand. Wages \$22.00 a month and board. Farm in Van-couver, B.C. No. 146. a.

Wanted-Two men on a farm in Grey County; one to act as fore-man and the other for general work. Good wages, steady work. No. 147. 8.

Wanted .- A good man who is accustomed to the dairy and feeding cattle for the winter or by the year. Farm situated in Peterborough County. No. 145.

Wanted.-A man to work on a 250 acre farm in Ohio, U. S. In addition to milking and caring for stock there is general farm work. Good wages to energetic and wil-ling man. No. 144. b.

#### Domestic Help Wanted

Wanted-A strong reliable person to help with farm house work. A woman from 18 to 60; would give a good home to an elderly woman who could work. No outside work. b. No. 143.

#### Situations Wanted.

Wanted .- A position as foreman on a stock farm by a married man aged 40. Have had a life-long ex-perience in farming in all its branches. Wife is willing to take charge of housekeeping and board men on farm. No. 613.

Wanted a position on a farm by a young man 18 years of age caring for horses and cattle; has not had much experience in farm work but is willing to learn. No. 612. b.

N ..- Where no name is mentioned in the advertisement, apply to A. P. Westervelt, Parliament Buildings, Toronto, giving number of advertisement.

#### Farmers' Institutes.

FARMETS INSTITUTES. There is a bead the Superintendent of Farmers is in the state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state is a state of the state of the state of the state is a state of the state of the state of the state is a state of the state of the state of the state is a state of the state of the state of the state is a state of the state of the state of the state is a state of the state of the state of the state is a state of the state of the state of the state is a state of the state of the state of the state is a state of the state of the state of the state of the state is a state of the state

#### Effect of Our Fruit Trade on the English Market.

WHAT IS BEING DONE TO MEET OUR IMPROVED METHODS OF PACKING-EXTRACT FROM JOURNAL OF

GREENGROCERY, LONDON.

#### FARLY APPLES.

A few weeks ago we reported the first consignment of American apples-much earlier than usual. From these early consignments it would appear that American growers intend to place their produce upon the market to compete with our earlier supplies. Now, if this is the case, home growers must wake up. Granted that we are heavily handicapped this season, everything being late owing to the weather, it is not always so. Every grower is aware of the fact, or should be, that the early produce fetches the best price, and this applies to fruit as well as vegetables. Intending apple planters must therefore plant early varieties as well as late ones. The best lists of early varieties can perhaps be obtained from the nurserymen who make a speciality of growing and supplying young trees to growers in the different growing districts, as much depends upon soil and locality; while to our mind, Early Rivers, Beauty of Bath, Red June-eating, Lord Suffield, Devonshire Quarrenden, Bismarck, Worcester Pearmain, are amongst the best early apples, in addition to which they have a bright color for the most part, which is a very important point for market apples.

#### HOW TO PACK.

That home growers can beat all comers at growing apples, pears, peaches, grapes, and most other practices, grapes, and most other fruits can be gleaned by those who care to visit the show of British-grown fruit held under the aus-pices of the Royal Horticultural Society at the Crystal Palace, which, by the way, takes place on Sept. 18, 19, 20, or by visiting many of the horticultural shows held in country districts. How to pack the fruit when it is grown, however, is quite another matter, and one about which growers in this country do not trouble themselves sufficiently. It is the greatest mistake possible for growers to content themselves by packing their fruit in sieves and half-sieves just because their fathers and grandfathers did so before them, and the sooner they get out of this "rut" the better. The Royal Horticultural Society have special classes at the before-mentioned show in which prizes are given for the best method of packing, but as a rule these classes receive very little patronage from growers, although grading and packing is the most important branch of the business after the fruit has been grown. In the various markets throughout the country at the present time may be seen English and foreign apples and pears at the salesmen's stands awaiting the inspection of retailers with a view to being purchased. On account of the excellent grading or evenness of the foreign fruit, the method of packing, and its general appearance, the fruit in many cases is purchased in preference to English, not because it is better in guality, for otten it is not, but because of its general appearance, which home growers would do well to remember.

#### Ventilation and Heating

#### BY DR. SINCLAIR, WALKERTON

Before commencing a study of the first part of our subject, let us clearly understand its meaning. Ventilation is the process of changing the air in rooms and closed places, so that a certain standard of purity may be preserved notwithstanding the vitiation which the air undergoes from the breath of occupants, the products of combustion of illuminating agents, and other causes.

We shall first consider what pure air is, and what amount of contamination is required to produce a deleterious effect upon the health of individuals inhaling it. Pure air is a mixture composed of 78.98 parts nitrogen, 20.99 parts oxygen, and 0.03 parts carbon dioxide, in every too parts. The association of these gases in atmospheric air is not a chemical union, but merely a mechanical mixture, readily separated. Oxygen is the absolutely essential element for the support of human, and all animal life. Nitrogen is the vehicle for carrying the oxygen, or for diluting it so as to make it fit for ordinary respiration. Carbon dioxide is far from being such an indifferent agent. It is essential to life in the vegetable kingdom, but not in the animal. To man it is a superfluous agent, doing no harm in minute quantities, but becoming very injurious as the quantities are increased. While oxygen, nitrogen and carbon dioxide are the three essential components of life-giving air, other gases, such as ozone (or peroxide of hydrogen) nitrous and nitric acids, and water in a gaseous form, are found to be more or less intermingled with them. Ozone, which is merely oxygen which has taken on a new set of properties in consequence of the action of electricity or some other force, is most valuable as a disinfectant.

Air becomes contaminated in various ways; by respiration, by conbustion, by putrefaction, sewage emanations and excremental filth, by gases, vapors and suspended metallic, mineral and vegetable matters given off by trades and manufactories, and by poisons of unknown nature given off by damp and filthy soil.

To us the first mentioned means of contamination is perhaps most important. Air as expelled from the lungs contains only 13, instead of approximately 21 parts of oxygen, the missing 8 parts having been withdrawn by the blood-cells in those organs. The 0.03 or 0.04 p.c. of carbon dioxide allowable, is increased to 4 or 5 p.c. An increase of watery vapor is perceptible, and this is loaded with organic matter, the most injurious ingredient of re-breathed air.

Quantities of this organic matter are given off with the perspiration, by the skin, as well as by the hungs. When it comes in contact with the moist warm air of a room it undergoes decomposition and torms a medium on which the vatious disease producing bacteria feed and multiply, and thus the room is made a focus from which contagious diseases are spread and propagated. Organic matter is characterized by a fetid odor, ea-sily recognized in over-crowded rooms the occupants of which have not paid strict attention to personal cleanliness, and quite fre-quently, though in a less degree, in the neighborhood of our beds alter they have been slept in, and also in sick-rooms. The odor, when strong, creates in those unaccus-tomed to such impurity, a feeling of positive debility, the result of poisoning. Now substances which imbibe water freely will absorb this matter and retain it indefinately, owing to its molecular form. Among the most common absorbents of your households are: woolen goods of all kinds, feathers, carpets and moist paper, besides the woodwork and furniture. Take warning then, and banish all articles of such description which cannot be easily and frequently washed and cleansed. We find that straw and horse hair take up organic matter in a very slight degree: and just here is a suggestion for your beds. It you cannot alford a good hair mattress, an expensive luxury, avoid wool ones, and those of anknown composition, as well as the still more unhealthful feather bed, and resort to pure clean straw that you can afford to empty out and renew at will.

We have seen that air as expelled from the lungs contains carbondioxide to the amount of 4 or 5 p.c. instead of 0.03 or 0.04 p.c., as it is in pure air, or 0.06 p.c., the limit of what can be endured without injurious effects. We can readily see then the necessity for frequently changing and freshening the air of our habitations. It has been ascertained that whenever other impurities exist in the air, carbon dioxide increases in the same proportion; and it is therefore usually taken as the standard of impurity, so that in order to have pure air to breath, we must get rid of the excess of carbon dioxide.

Carbon dioxide is produced in large quantities not only by the breathing of human beings and the lower animals, but by the perspiration, by the combustion of fuel and lights, and by decomposition of animal and vegetable reluse. It is estimated that 822,000,000 cubic feet of it are produced in the city of London, England, every day; or 9,500 cubic fect per second. Nevertheless, through its powers of oxidation and the physical changes which it undergoes through the agency of storms, rain, currents, temperature, etc., the atmosphere preserves a marvelous uniformity of composition. Then shall we not make some provision in our closed buildings for the operation of some of those agents?

We have still another gas which is important for us to consider as an impurity of the air, viz., carbon monoxide, a most deadly poison. It is always present where combustion is imperfect. Our coal stoves and furnaces become generators of this poison, if not carefully and skilfully managed. It can easily be distinguished when burning on the top of the coal by its pale blue flame Its formation can be prevented by giving the fire sufficient draught, and seeing that it burns brightly. The draught is especially necessary when a fresh supply of coal has been thrown on. This gas is not only formed by the incomplete burning of coal, but by that of wood, or any other carbonaceous material. This gas often destroys human life when allowed to escape into bed-rooms, the occupants of which are asleep. It acts as a narcotic poison, keeping those exposed to it in a comatose condition until life is extinct. Its milder effects are languor and oppression, difficulty of breathing, slight dizziness, confusion of thought, headache, accompanied by a feeling as if a tight band encircled the forehead and temples, in a word the symptoms of narcotic poisoning.

Besides the impurities formed within the room itself, we find many others, quite as injurious, drawn in from its neighborhood, where that is not in the condition it ought to be. The burning fires create a draught by which the air of surrounding soil is drawn within by suction. Then let us see to it that the soil about our dwellings is kept dry and clean, as well as the dwellings themselves. It is a well-demonstrated fact that the death rate from consumption, rheumatism and its concomitant heart disease, infantile diarrhoea, and a variety of other diseases, is materially lessened by the drying of the sub-soil. The popular idea that the air ends where the ground begins, is a wide-spread delusion. All soils are more or less porous, and contain air, which may give place to foul gases, or to water. A house built on gravelly soil is upon **a** mixture of two parts small stones and one part atmospheric air. It is as needful to keep this air pure as it is that of our dwellings, in order that we may enjoy perfect health. Where dish water is health. Where dish water is thrown from the door upon the ground, soap-suds disposed of in the same manner on washing-day, and all sorts of decomposing particles are sent with them, forming one grand cess-pool, or a large area of wet soil, giving out its poisonous exhalations to pollute the air, we must expect to find general bad health, and the most virulent.

types of contagous diseases. In the days when we lived in the oldfashioned houses, with their ill-fitd no... doors and windows, fireplaces, ting large open and these poisons were so quickly sucked through the house, and were so diluted with fresh air, that they did little harm. But the modern house, with its double doors, and double windows, and absence of ventilating flues, forms an excellent receptacle for storing them to the subsequent injury of the inmates. Look well, then, to the cleanliness of your own yard; and, in case you are living in a closely settled part of a town or city, look to your neighbor as well. If he is not paylook to your ing sufficient attention to the matter, report him to the health offi-CET.

The size of the rooms we occupy is a question of great importance. In the British army, previous to 1836, the death-rate from consumption was exceedingly high, and the Government was moved to appoint a commission to inquire into the cause of such mortality. The deci-sion of the commission was, that the limit of air space allowed each soldier was insufficient. Acting on this suggestion, the Government ordered that every soldier in barracks should be allowed 600 cubic feet of air space, and that was or-dered to be well ventilated. This This change was followed by an immediate improvement in the health of the soldiers. It is now an established rule that each individual requires a minimum of 600 cubic feet of breathing space; while 1,000 cubic feet is required for perfect comfort and health. The air of this space should be replaced by pure external air, at least three times per hour, in order that the individual may have the 3,000 cubic feet per hour required to keep him perectly healthy.

In our uneven climate, we require a different system of ventilation in summer from what we do in winter, owing to the necessity for artificial heat in the cold weather. During the warm weather in summer, there is a larger amount of organic matter given off by the skin than in cold, and this necessitates freer ventilation, but on the other hand, the outer air is nearer the temperature of the body, and can be more freely admitted. Open your doors and windows and drive out the foul air; while, at the same time replacing it with pure and fresh air from outside. This means of ventilation will be found insufficient for fully occupied rooms, such as school-rooms, churches, public halls, etc., and the deficiency must be made up by artificial modes of ventilation.

The subject of ventilation, in a cold climate like ours, is inseparably connected with that of heating, for it is impossible to have efficient ventilation in cold weather, without warming the air, so that its rapid movement may not produce the discomfort of draughts. The degree of moisture contained in the air must also be considered in the same connection, a cool cur-

rent of air being rendered more disagreeable by an excess of it, and **a** warm current becoming less conducive to comfort by either an excess, or a deficiency of it. With most systems of heating at present in use, the great difficulty is to secure sufficient humidity in the atmosphere breathed. A pan or kettle of water set on top of the stove or furnace giving off its steam, may make up this loss. A certain amount of moisture is an absolute necessity to health and comfort.

We shall now consider the two parts of our subject together, and try to gain some information as to the best mode of securing both heat and ventilation, adequate to our needs. In cold weather, our ef-forts are directed mainly to securing a sufficient supply of warm air to counteract the effect of the colder atmosphere out of doors, and we seldom think of making provision for the escape of foul air. Fortu-nately for us, provision is often made without thought or knowledge on our part, by imperfect carpentering, draughts in stoves, etc. We think mainly of economizing fuel, and at the same time securing enough heat to keep us comfortably warm while to secure a constant access of pure warmed air to our bodies, the consumption of a large amount of fuel is necessary.

We have three great natural agents to co-operate with us in the securing of proper ventilation: the law of diffusion of gases, the difference of weight between masses of air of unequal temperature, and the wind, which is the result of the second of these agents. All must be taken into account when our arrangements are being made. Now there are numerous systems of ventilation and heating: some good, some fair and some very bad. Since a part of the time allowed for one of your afternoon meetings is very inadequate to an exhaustive study of the subject before us, we shall consider only one-recognized to be, on the whole, the best of these systems.

By this system a ventilating flue made of tin or some other smoothsurfaced material that will not tend to accumulate dust and dirt, is placed in the wall, its lower opening communicating with the out-door air, the fresh air entering here, and being carried to a furnace in the basement, about whose sur-face it is passed, for the purpose of warming, and then carried on its upward way through the flue, until it reaches a point in the wall above the breathing line of the occupants of the room. An opening is there made, and the flue connected with it, so that the warmed air may es-Now we cape into the room. know that heated air is lighter in weight then cold, and its natural tendency is to rise, consequently, if we were to stop here, we would have the upper part of the room hot, while the lower air would remain cold, and might cause great discomfort, but, by placing an outlet for the foul air at the floor immediately beneath the point where the warmed air enters, we create a

draught by which the cooler foul air of the lower part of the room is drawn off, and is replaced by warm air from above. By this means the heat is distributed fairly equally to all parts of the room, by diffusion and circulation. Thus we have, at the same time, a wellveated and a well-ventilated room.

Were we to extend our study of the question of heating, we would find that steam and water possess many advantages over hot air, but the question of ventilation becomes more complicated where either is used.

In a well-managed room the temperature should never rise above 70 degrees Fahrenheit, and never fall below 60 degrees, 67 degrees being found comfortable for most people sitting still. The humidity should be kept as near 70 per cent. as possible, and the size of the inlets and outlets should be so regulated as to allow of the air being completely changed not less than three times per hour, and the air conducted from without, through the ventilating shaft, should be per-fectly pure. In order that this may be so, it is necessary to see that no decomposing matter of any kind is allowed to lodge in our neighborhood. It may not be out of place at this meeting to suggest that the same rules of health should be observed for the lower animals as for man.

#### To Clean Wall Paper

Here are several ways by which wall paper can be cleaned so that it looks almost as good as new. The knowledge may be of use to housekeepers:

One way is an old one, but as it is satisfactory, we give it with the rest. Take a loaf of bread, stale, but not too hard, and cut off one crust; then, taking it in one hand, rub the paper gently with the exposed surface. When the bread looks soiled, cut off a very thin slice and proceed with the work. It is best to rub down on the paper, and clean each piece thoroughly before leaving it.

Another way is to take a loaf of bread, and, after removing the crust, soak it in cloudy household ammonia. It must be so wet that one can work it in the hands into a ball. Rub the paper lightly with it, and as the ball becomes soiled on the outside, knead it until a clean surface is exposed. This will remove the dirt and smoke and freshen up the paper wonderfully.

Another plan is to make a soft dough of coarse brown flour mixed with water. It should be stiff enough to handle easily. The paper can be rubbed with it as in the former method. When there are grease spots on the paper, lay coarse brown paper over them and pass a hot iron over it. Fresh paper may be needed several times if the spot is large.

When there are spots from which the color has been removed, they can be made to look as good as new by the use of watercolor paints.—The Woman Farmer.

# The Farm Home

#### Opportunity

- He was a vokel, freekled and tanned Who stood with a rope in his horny hand,
- And tried to inveigle a fractious goat
- To give him a chance to encircle his throat

With a rope.

- It was the goat, contrary-impelled, That laughed at the yokel and rope he held
- And wouldn't admit for a moment that he
- Was foolish as t'other had thought him to be. He should hope!

Then raced the two all over the

- field (The man wouldn't stop, the goat
- wouldn't yield) Till, what with the steps they had
- run and retraced, They found that the chase and pursuit had embraced
- Quite a scope.
- Tired of flight the goat turned around, And brushed with his whiskers the
- battle ground;
- Then lowered his head and proceeded to dash
- Twixt the yokel's legs in a frac-tional flash, Slick as soap!

There was his chance! Had the

- vokel grabbed His horns, he'd have had the fugi-
- tive nabbed; But he didn't, and then with a
- hopeless wail
- He caught at the brief, inexpressible tail On the lope.
- You know, of course, or hear it
- from me-A goat's tail's not as long as a
- tail ought to be; And so, when he grabbed, the tail
- wasn't there. And the goat was exciting the vielding air

Up the slope.

- Now, here is the moral: You needn't try
- To catch Opportunity that's gone by;
- For his tail is the briefest that ever was
- (Don't hang near as long as a goat's tail does!)
- If you're after Old Oppor., you're sure to find
- That you can't head him off if you get behind.

-Baltimore News. Moral: Buy land now.

#### Curing Rheumatism by Bee Stings.

----

One day, not a great while ago, Mr. Middlerib read in his favorite paper a paragraph copied from the Preger Landwirthschaftliches Wochenblatt, a German paper, which is

an accepted authority on such points, stating that the sting of a bee was a sure cure for rheumatism, and citing several remarkable instances in which people had been perfectly cured by this abrupt remedy. Mr. Middlerib did not stop to re-

flect that a paper with such a name as that would be very apt to say anything; he only thought of the rheumatic twinges that grappled his knees once in a while, and made life a burden to him.

He read the article several times, and pondered over it. He understood that the stinging must be done scientifically and thoroughly. The bee, as he understood the article, was to be gripped by the ears and set down upon the rheumatic joint, and held there until it stung itself stingless. He had some misgivings about the matter. He knew it would hurt. He hardly thought it could hurt any worse than the rheumatism, and it had been so many years since he was stung by a bee that he had almost forgotten what it felt like. He had, however, a general feeling that it would hurt some. But desperate diseases required desperate remedies, and Mr. Middlerib was willing to undergo any amount of suffering if it would cure his rheumatism.

He contracted with Master Middlerib for a limited supply of bees. There were bees and bees, humming and buzzing about in the summer air, but Mr. Middlerib did not know how to get them. He felt, however, that he could safely depend upon the instincts and methods of boyhood. He knew that if there was any way in heaven or earth whereby the shyest bee that ever lifted a 200-pound man off the clover, could be induced to enter a wide-mouthed glass bottle, his son knew that way. For the small sum of one dime

Master Middlerib agreed to procure several, to wit: six bees, age not specified, but as Mr. Middlerib was left in uncertainty as to the race, it was made obligatory upon the contractor to have three of them honey, and three bumble, or in the generally accepted vernacular, bumble bees. Mr. Middlerib did not tell his son what he wanted those bees for, and the boy went off on his mission, with his head so full of astonishment that it fairly whirled.

Evening brings all home, and the last rays of the declining sun fell upon Master Middlerib with a short wide-mouthed bottle comfortably populated with hot, ill-natured bees, and Mr. Middlerib and a dime. The dime and the bottle changed hands. Mr. Middlerib put the bottle in his coat pocket and went into the house, eveing everybody he met very suspiciously, as though he had made up his mind to sting to death the first person that said "bee" to him. He con-fided his guilty secret to none of his family. He hid his bees in his

bedroom, and as he looked at them bedroom, and as ne noosed at them just belore putting them away, he half wished the experiment was safely over. He wished the im-prisoned bees didn't look so hot and cross. With exquisite care he submerged the bottle in a basin of water, and let a few drops in on the heated inmates, to cool them off.

At the tea table he had a great fright. Miss Middlerib, in the artless simplicity of her romantic nature said:

"I smell bees. How the odor brings up-

But her father glared at her, and said, with superfluous harshness and exectable grammar:

"Hush up. You don't smell

Whereupon Mrs. Middlerib asked him if he had eaten anything that disagreed with him, and Miss Mid-dlerib said: "Why, pa!" and Mas-ter Middlerib smiled as he wondered.

Bedtime came at last, and the night was warm and sultry. Under various false pretences, Mr. Middle-rib strolled about the house until everybody else was in bed, and then he sought his room. He turned the night-lamp down until its feeble rays shone dimly as a death-light.

Mr. Middlerib disrobed slowlyvery slowly. When at last he was ready to go slumbering into his peaceful couch he heaved a pro-found sigh, so full of apprehension and grief that Mrs. Middlerib, who was awakened by it, said if it gave him so much pain to come to bed, perhaps he had better sit up all night. Mr. Middlerib checked an-other sigh, but said nothing and crept into bed. After lying still a few moments he reached out and got his bottle of bees.

It was not an easy thing to do, to pick one bee out of a bottle full, with his fingers and not get into trouble. The first bee Mr. Middlerib got was a little brown honeybee that wouldn't weigh half an ounce if you picked him up by the ears, but if you lifted him by the hind leg as Mr. Middlerib did, would weigh as much as the last end of a bay mule. Mr. Middlerib could not repress a groan.

"What's the matter with you?" sleepily asked his wife.

It was very hard for Mr. Middlerib to say; he only knew his temperature had risen to 86 all over, and to 197 on the end of his thumb. He reversed the bee and pressed the warlike terminus of it firmly against his rheumatic knee. It didn't hurt so badly as he

thought it would.

It didn't hurt at all!

Then Mr. Middlerib remembered that when the honey-bee stabs a human foe it generally leaves its harpoon in the wound, and the invalid knew then the only thing the bee had to sting with was doing its work at the end of his thumb.

He reached his arm out from un-

der the sheet, and dropped this disabled atom of rheumatism limiment on the carpet. Then, alter a second of blank wonder, he began to feel around for the bottle, and wished he knew what he had done with it.

In the meantime strange things had been going on. When he caught hold of the first bee, Mr. Middlerib, for reasons, drew it out in such haste that for the time he forgot all about the bottle and its remedial contents, and left it lying uncorked in the bed. In the darkness there had been a quiet but general emigration from that bottle. The bees, their wings clogged with the water that Mr. Middlerib had poured upon them to cool and tranquilize them, were crawling aimlessly about over the sheet. While Mr. Middlerib was feeling around for it his cars were sud-denly thrilled and his heart frozen by a wild piercing scream from his wife.

"Murder!" she screamed, "murder! Oh, help me! Help! Help!"

Mr. Middlerib sat bold upright in bed. His hair stood on end. The night was very warm but he turned to ice in a minute.

ed to ice in a minute, "Where, oh, where," he said, with pallid lips, as he felt all over the bed in frenzied haste--"where in the world are them infernal bees?"

And a large "bumble" with a sting as pitiless as the finger of scorn, just then lighted between Mr. Middlerib's shoulders and went for his marrow, and said, calmly, "Here is one of them."

And Mrs. Middlerib felt ashamed of her feeble screams when Mr. Middlerib threw up both arms, and, with a howl that made the windows rattle, roared:

"Take him off! Oh, land of Scott, somebody take him off!"

And when a little honey-bee began tickling the sole of Mrs. Middlerib's foot, she shrieked that the house was bewitched and immediately went into spasms.

The household was aroused by this time. Miss Middlerib and Master Middlerib and the servants, were pouring into the room, adding to the general confusion, by howl-ing at random and asking irrelevant questions, while they gazed at the figure of a man, a little on in years, pawing fiercely at the unattainable spot in the middle of his back, while he danced an unnatural, weird, wicked-looking jig by the dim religious light of the night lamp. And while he danced and howl ed, and while they gazed and shouted a navy-blue wasp that Master Middlerib had put in the bottle for good measure and variety, and to keep the menagerie stirred up, had wings and legs with a dried his corner of the sheet, after a prelim-inary circle or two about the bed. to get up his motion and settle down to a working gait, fired himself across the room, and to his dving day Mr. Middlerib will always believe that one of the servants mistook him for a burglar and shot him.

No one, not even Mr. Middlerib himself, could doubt that he was,

at least for a time, most thoroughly cured of rheumatism. It is own boy could not have carried himself more lightly or with greater agility. But the cure was not permanent and Mr. Middlerib does not like to talk about it.

Robert J. Burdette.

------

#### Hints by May Manton. woman's box plaited blouse or shirt waist, 4251.

To be Made With Box Plaited or Plain Back, with Stock or Eton Collar, and With or Without the Fitted Lining.

Box plaits make a prominent feature of the season and are seen on many of the latest waists. This stylish blouse shows them arranged in a novel manner and can be made with either plain or plaited back. As shown it is of sage green tafetta stitched with corticelli silk and is worn with the comfortable and fashionable Eton collar, but



#### 4251 Box Plaited Blouse, 32 to 42 bust.

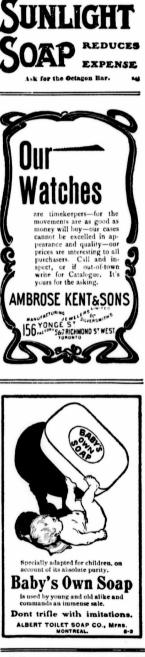
the plain stock can be substituted for this last whenever preferred. Tafetta, peau de soie, waist cloths flannel, and all waist and simple gown materials are appropriate.

The foundation for the blouse is a smoothly fitted lining that closes at the centre but separately from the outside. The waist itself consists of fronts and back only. The back may be either plaited or plain, but the fronts are arranged in a central plait with two stitched to yoke depth at each side. The sleeves are in bishop style with straight cuffs. At the neck is a roll-over Eton collar, but the plain stock also is included in the pattern.

The quantity of material required for the medium size is  $4\frac{3}{2}$  yards 21 inches wide,  $4\frac{3}{2}$  yards 27 inches wide,  $4\frac{1}{2}$  yards 32 inches wide or  $2\frac{3}{2}$  yards 34 inches wide. The pattern 4251 is cut in sizes

The pattern 4251 is cut in sizes for a 32, 34, 36, 38, 40 and 42 inch bust measure.

The price of the above pattern post-paid is only 10 ots. Send orders to The Farming World. Confederation Life Building, Toronto, giving size wanted "Prizes" with common soaps are dearly paid for at the expense of clothes and hands.



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D. T. MCAINSH, PUBLISHER J. W. WHEATON, B. A. \_\_\_\_ EDITOR

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The Publisher's Desk

New Massey Harris Catalogue

A distinctly unique feature is pre-sented in the Massey Harris Australian sented in the Massey Harris Australian catalogue, which is just issued from the Massey Press, in the cather of the book, occupying some forty pages, is a charming laye story is a delightful one and will add years to the life of the catalogue. A full and detailed description of the Massey Harris line is found in the otherine and desing is found in the opening and closing pages of the book. The cover, lith-graphed in colors and embessed, is a real work of art.

#### Of Value to Horsemen

Do you turn your horses out for the winter? It so, we want to call your attention to a very important matter. Horses which have been used steadily Horses which have been used steadily at work, either on the farm or road, have quite likely had some strams whereby lameness or enlargements have been caused. Or perhaps new life is needed to be initsed into their legs. Gombault's Caustic Balsam ap-plied as per directions, just as you are turning the horse out, will be of great benefit; and this is the time when it can be used yet successfully. One great advantage in using this One great advantage in using t remedy is that after it is applied this needs no care or attention, but does its work well and at a time when the :1 horse is having a test. Of course it can be used with equal success while borses are in the stable, but many people in turning their horses out would use Caustic Balsam if they were reminded of it, and this article is given as a reminder ..

#### -----A Money Maker

The Toronto Industrial Fair for 1902 has proven itself to be one of the very best investments the city of Toronto has. of Toronto has. After paying all expenses there will be a surplus of over \$11,000. The management is to be congratulated upon the successful outcome of last year's show, both financially and other-The Exhibition's many wise.

friends will be glad to know of its past success and prospects for better work in the future. The Indus-trial Fair of 1903 will be held during the first two weeks of September.

#### Strathroy Dairy School.

The Strathroy Dairy School will open for the season of 1902-3 on December 2nd next. There will be four courses: a special creamery course beginning on Dec. 2nd and ending Dec. 20th, 1902; a short course in dairying beginning on January 2nd. ng January 24th; a long dairy course beginning January 26th and ending March 26th, and a course in domestic science, beginning January 14th, and ending March 14th, 1903. The last named course is a new feature that should prove attractive to far-mers' wives and daughters. This school is well equipped for doing good work and should be well patronized by makers and others in the West this winter.

#### Soft Corn Versus Mature Corn for Fattening Cattle

Early in the month of August, Professor W. J. Kennedy, head of the Animal Husbandry Department of the Iowa Agricultural College, selected and purchased on the South Omaha markets a car load of high class western steers to be used in a keeding experiment planned by him at the Iowa Exper-iment Station. The steers mostly high grade Herefords and Shorthorns averaged 1.038 lbs, at the beginning of the experiment, which was started on August 11th. They

were divided into two lots of asnearly equal quality, weight, and breeding as it was possible to divide them. Lot No. 1, containing 8 steers. was given the run of a good 7 acre field of blue grass pasture and re-ceived a ration of shelled corn each evening. The corn fed was grown

## Poultry and Eggs

Advertisements under this head one cent a un Cash must accommany all orders under \$2.00. display type or cuts allowed. Each initial and m ber counts as one word.

DUFF ORPINGTONS-choice breeding stock-miported stock. Also White Wyasdutes, Barrad Rocksand Indian Games. Will sell my entire stock, accept Orpingtons--mong grand 1901 pullets-at ereat bargains. Have won many prizes on them. Birdd sent on approval. Write for prices and Birsceler, J. W. CLARS, Importer and Revelet, Onondags, Ont.

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BARRED ROCKS, White and Buff Wyandottes Ba and White Leghorts. Coderels and Pallets of hous. 51 00 a 1200 arch. On all three Vertices I took almost all the first prizes this fall at the Halton took almost all the first prizes this fall at the Halton Cutty Fair and Oakville Fair. My Rocks and Wyandottes are expectally fine winter layers. (LAUDE C. HALVES, Westwood Pouliry Farm, Oskvill

Monkey Brand Soap cleans kitchen uten sils, steel, iron and tinware, knives and forks, and all kinds of cutlery. 20

Keep your eyes open and be sure that when you ask for Perry Davis' Painkiller you get just that and nothing else. Use it promptly to cure eramps, diarrhum and all other bowel complaints in



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Champion Fruit Evaporator Dries all kinds of fruit and vegetables, produc-ing a superior quali y of clean white fruit. It is made of galvanized iron, is lined to roughout with asbestos, is fire proof and portable. Made in five sizes. Catalogue for the asking. asking.

Maple Syrup Evaporator. Not a single teature of the "Champion" Evaporator could be dispenses with and lease a perfect Evaperator. Durability, ra-pidity, and high quality of product, with saving of net, are its fea-tures. Our estimant and system makes it easy to system makes it easy to handle, and ever-lasting. Write for catalogue, state number of trees you tap, and an esti-mate of your re-quirements will fol-low.

THE GRIMM MFG. CO.

84 Wellington St., MONTREAL TOLTON'S No. I Double Root Cutter

Points of Merit: 1. To change from pulping to slicing is but the

- work of a moment. There are two separate wheels, one for pulping 2.
- and the other for slicing. The united force of both wheels is always used 3.
- in doing the work in either capacity. The hopper is between the wheels, and does 4
- not ch oke. The Only Double Root Cutter Manufactured.

Fitted with Roller Bearings, Steel Shafting, and all-that is latest and best in principle, material and construction.

TOLTON BROS., Guelph, Ont. -

in 1900, and thus of good quality. The steers were started on a light ration of 3 lbs. of shelled corn per steer per day which was gradually increased until at the present time they are eating about 20 lbs. of shelled corn per steer per day. Lot No. 2, containing 8 steers, was also given the run of a good seven acre field of blue grass pasture, and were fed in addition green corn cut fresh each night. They were fed stalks, ears and all. Samples of the green corn were collected for chemical analysis at the beginning of the experiment and at the end seven days so that the of every feeding value at the various stages might be determined. The cattle were also weighed every seven days. In order to estimate the approximate yield of the green corn fed a corresponding area left standing and will be husked out and Thus the approximate measured. amount of corn consumed by lot No. 2 can be determined and compared with the exact amount fed lot No. 1. Cattle feeders to throughout the central west have been annually feeding large quanti-ties of green corn. Some feeders deem it to be a very wasteful practice. The results of this experiment will furnish reliable data regarding the same.

Another important feature of this experiment is that the cattle in lot No. 1 will be fed on old corn until ready for market, which will be about the middle of December. Those in lot No. 2 will be fed on new corn which, due to the early frost, is soft, thus considered by many to be lacking in nourisiment. By comparing the results the effect of the early frost can be ascertained. The results of this experiment will be issued in bulletin form at the conclasion of the test.

#### Some High Priced Beeves

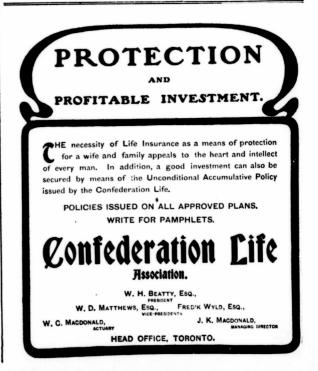
On July 28th last, Mr. A. II. Lockridge, of Indiana, sold on Chicago market 86 head of 1.475 lbs. sters of his own feeding for \$8.45 per cwt. He describes his method of feeding as follows:

"The steers were selected by me in Putnam County, Indiana, and were as good as I could find, as I think it most profitable to feed the best. They were in good flesh when I received them in October and November, and were turned on to bluegrass. The latter part of November they had the run of stalk pastures adjoining the bluegrass. After getting the cream of the stalk fields, I added one peck of shucked corn per head daily, increasing this gradually and adding oat-hay and corn until January They were then getting first. about one-third of a bushel of corn and all the oat-hav they would cat. I turned them on a bluegrass pasture the first of May with seventy acres of red clover adjoining this. I added one-third of a bushel of corn per head daily and continued this until I shipped them. They averaged in weight about 1,150 lbs. when I received them and weighed 1,475 lbs. in Chicago."



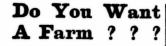


For Flat or Steep Roofs, It is Waterproof, Fireproof, quickly and very easily laid, and cheaper than other roofing. MICA ROOFING CO., JOI Rebocon Street, Hamilton, Canada



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If so, you can obtain one on very easy terms in some one of the various districts of : : : : :

**NEW ONTARIO** 

Write for particulars to the Bureau of Colonization, or to : : : : : : :

HON. E. J. DAVIS Commissioner of Crown Lands TORONTO

FELCH'S STRAIN Barred Plymouth Rocks Grand Cockorels & Pullets For Sale, at Cut Prices A. T. GILBERT, Elmvale, Ont.



We have not advanced the price of our tobaccos. Amber smoking tobacco Bobs. Currency and Fair Play chewing tobaccos are the same size and price to the consumer as formerly. We have also extended the time for the redemption of Snowshoe tags to January 1st, 1904. THE EMPIRE TOBACCO CO. Limited.



5. E splanade St. E., TURONTO, ONT

#### THE FARMING WORLD

#### Working on a Farm

The following from a young man who has hired out on a farm for several years in the Western States contains some good advice for those who are inclined to the view that farm life is mere drudgery:

"I have been working out for eight years, and when I hunt for work I generally find it. I find that farmers always pay as good wages as I can get at public work. I will show you the figures to prove that this is true. On the farm I always get from \$20 to \$25 per month, my board and washing. On public works I get from \$1.25 to \$1.75 per day, pay from \$3.50 to \$4.25 for board and at least \$1.00 a month for washing. 1 make \$45-50 per month on public works at the highest wages and pay \$18.21 per month for board, leaving me \$26.29, less my washing (\$1.00), and allowing a half day each week for rainv weather I have left but S21.79 clear money. On the farm I get straight time. The farm is I get straight time. the place for me. I love to be on the farm rainy days, and get into a shop or barn and mend harness or trim the horses' feet, or put the handle on the fork. That is the way a young man can always get a job on a farm. If he is sitting down at every opportunity he gets he is not going to suit the man for whom he is working. The hired man must get up in the morning without being called, if he wants to get a good reputation as a hired man. Never wait to be a hired man. Never wait to be told what to do, and if you are told to do anything, go and do it, without a word or even a frown on your face. Be kind to your em-ployer."

#### Ages of Animals and Birds

A sheep lives ten years. A cat lives fifteen years. A lion lives twenty years. A camel lives forty years. A bear lives twenty years. A dog lives fourteen years. A squirrel lives eight years. A canary will live six years. A crow will live fifteen years. An ox lives twenty-five years. A guinea-pig lives seven years. A horse lives twenty-five years. A swan will live twenty-five vears. whale lives three hundred A vears. A tortoise lives one hundred vears. An elephant lives four hundred vears. A parrot lives one hundred and twenty-five years .- American Exchange. "Children," said Aunt Mary, "vou have a new little brother.

He came this morning while you were asleep." "Did he?" exclaimed the eldest. "Then I know who brought him." "Who was it?" asked Aunt Mary. "Why, the milkman, of course. I saw it on his cart, 'Families supplied daily.'"— Credit Lost.



DAVID McCRAE, Janefield, Guelph, Canada, Importer and Breeder of Galloway Cattle, Clydesdale Horses, and Cotswold Sheep. Choice animals for sale.

#### JOHN DRYDEN

BROOKLIN, ONTARIO

BREEDER OF

CRUICKSHANK SHORTHORNS and CHOICE SHROPSHIRE SHEEP

Choice Young Bulls and Ram Lambs for sale. Write for prices.

#### QUEENSTON HEIGHTS SHORTHORNS.

Scotch and Scotch-topped choice young cows and heifers for sale at moderate prices.

HUDSON USHER, Queenston, Ont,

#### FOR SALE.

Large English Yorkshi es. Boars fit for service; Sows ready to breed; Boars and sows 8 weeks to 3 months old from imnorted and Canadian bred sows. Write JAS.A. RUSSELL,

Precious Corners, Ont.

#### Maple Lodge Stock Farm

Scotch Shorthorns, Choice Milking Strains, Prize Winning Leicesters, Young Stock for sale—imported and home bred.

A. W. SMITH, Maple Lodge P.O., Ont.



ROCK SALT for horses and cattle, in ton and car lots. Toronto Salt Works, Toronto



ENTRIES CLOSE DECEMBER Ist, 1902.

For rules, entry forms, and further information, apply to

A. W. SMITH, President, Maple Lodge, Oat. A. P. WESTERVELT, Secretary, Parliament Buildings, Toronto, Ont.

## PURE-BRED STOCK

#### NOTES AND NEWS FROM THE BREEDERS

These columns are set apart exclusively for the use of breeders of pure-bred stock and pointry. Any information as to importations made, the sale and pur have of stock and the containe of bords and facks that is not in the nature of an advertisement will be volcomed. Our desire si to make this the medium por conveying information as to the transfer of pure-bred animals and the condition of live stock throughout the country. The co-operation of all breeders is arrestly solicited is making this department as uneful and as interesting a possible. The editor resurs the right to eliminate any r atter that he may consider better suited to our advertising columns.

#### Swine

Mr. W. H. Durham, East Toronto, has sold fourteen of his purebred Berkshire swine to Mr. b. O. Parmer, Nashville, Tenn. The lot selected will maintain Canada's reputation for high class stock. They include two young boars by the champions King Tom and Lord Windsor. Mr. Parmer is a wellknown horseman and breeder of high class stock.

#### Some British Columbia Fairs

Mr. John Gardhouse, Highfield, Ont., has recently returned from British Columbia, where he acted as expert judge at a number of fairs. Mr. Gardhouse says:—"The first show at which I judged was Agassiz, which was not a very good one, as there appeared to be a good deal of local jealousy among the people. 1 judged all the live stock, horses, cattle, sheep, and swine. Horses were poor, cattle fairly good, sheep rather poor, hogs few in number but fairly good. My next show was at Surrey, where they have a very good president and a splendid secretary. It was a good show. 1 judged all the live stock there also. The horses were very good, cattle fair, sheep and swine good, but not many in numbers. I then went to Chilliwack, where they had a good show but they say not as good as last year. The president, Mr. Paisley, had not got home from the East, and they had very wet weather. I judged the cattle, sheep and swine, two men from Victoria judged the

horses. The sheep and swine of this show were splendid, many of them afterwards winning at New Westminster and Victoria. I then went to Ladner, where I found the best heavy horses and Shorthorn cattle; in fact I think they were equal to those at either New Westminster or Victoria. They seem to have a good president and secretary, and as the Delta District is very good, I have every reason to believe that this show is bound to grow. I judged all the live stock at this show and had a very hard day, as many as eight or nine animals competing in one class, but as far as I could hear I gave splendid satisfaction, the president and several others congratulating me on my good judgment and explanations of the same, and saying that they hoped to see me back again.

From Ladner I went to Salt Spring Island, Mr. Cottrelle was with me at this show, the first time that any of our judges and I had been together. We found this a live little show, with one of the best presidents that I have met, a Mr. Robertson, who was all over, looking after everything. They have a very nice ground, have built a new hall and a number of horse stalls. I judged the cattle, sheep and swine, and as most of the catthe were of the dairy class, I had to commence early to get through. I asked Mr. Cottrelle to go into the ring with me. We got along finely, gave good reasons for our awards, and received very complimentary remarks from the president and exhibitors. This is a



## MAILED FREE

#### Our Standard Courses of Study produce capable Book-keepers, Stenographers and Telegraphers.

We especially call the attention of young men who purpose following Agriculture or any of the Trades, to the fact shown in our Calendar that our System of Training offers such young men the best facilities for acquiring a knowledge of municipal business of every description, whether in city, town, village or county.

#### Address the Principal,

J. FRITH JEFFERS, M.A., - - - Belleville, Ont.

Warranted to give satisfaction **GOMBAULT'S** CAUSTIC BALSAM A safe, speedy and positive cure for Curb, Splint, Sweenv, Capped Hock, Strained Tendons, Founder, Wind Putts, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases of Parasites, Thrush, Dupithena. Removes all Bunches from Horses or Cattle. atism, Sprains, Sore Throat, etc., it invaluable. Every hottle of **Caustle Baisam** sold is "arranted to give satisfaction. Price **S 1.560** er bottle. Sold by dringgists, ac sont by ex-cess, charges paid, with full directions for its THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Onto OR 21 FRONT STREET WEST, TORONTO ONT Blood will tell When an animal is all run down, has a rough coat and a tight hide, anyone knows that his blood is out of order. To keep an animal econo-mically he must be in good health.

### DICK'S BLOOD PURIFIER

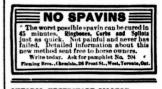
is a necessity where the best results from feeding would be obtained. It tones up the system, rids the stomach of bots, worms and other parasites that suck the life blood away.

Nothing like Dick's powder for a run down horse.

50 cents a package. Leeming, Miles & Co., Agents,

MONTREAL.

Write for Book on Cattle and Horses free.



#### ONTARIO VETERINARY COLLEGE, Limited

Temperance St., Toronto, Can

Affiliated with the University of Toronto. Patrons: Governor General of Canada and Lieutenant-Governor of Ontario. The most successful Veterinary Institution in America. Experienced Teachers. Fees, \$50 per session

> PRINCIPAL PROF. SMITH, F.K.C.V.S., TORONTO, CANADA

sident and exhibitors. This is a splendid little show, and while they have only a small island I think have only a small island 1 times it is a show that will grow. I met Mr. Westervelt there and also at Victoria, where they had fine wea-ther and a good exhibit of stock. All the judges sent out by the Do-minion Live Stock Department were present at Victoria.

#### The Fair at Victoria, B.C.

We finished up the judging of fairs in British Columbia to-day. On Monday Mr. Clemons starts Institute work along with myself in the upper mainland, including the Okanagan Valley. The Institute circuit ends about the 12th of November. The Victoria Exhibition has been very successful. Weather clear, sunny and warm, attendance The exhibit of live stock in good every department has shown a very marked improvement over last In horses, both heavy, year's fair. general purpose and light, in some classes, the competition was keen. There was a Clyde stallion three years old from the lower mainland of the right stamp and quality that has been shown at several fairs; and was very much admired. He was a good object lesson as to the correct type of the draft horse. In the classes for Shorthorn cattle the entries were numerous and the quality good. One or two choice Polled-Angus, but the Herefords were not representative of the breed.

The exhibit of dairy stock particularly Holsteins and Ayrshires was very creditable. Two herds of registered Holsteins from Vancouver Island and a small herd of Ayrshires from Lunu Island in which there was a very choice three year old bull, some Red Polled. year on oun, some red roned. The only weak part of the cattle exhibit was the Jerseys, both as to numbers and quality. Nearly all breads of sheep were represented and there were some fine specimens of Oxford, Shropshire, and South-down. The pigs were strong in numbers and quality, especially the Berks, Yorks, and Chester Whites. In judging in the different sections we gave the reasons why we made our awards.

After we were through with judging Mr. Clemons lectured on the dairy cow, Mr. Gardhouse on the draft horse, and I spoke on the correct type of beef animal. We all, while making our addresses used animals as object lessons, pointing out their defects as well as their good points. I think our judging and addresses were very much appreciated. .

(Signed) Duncan Anderson. ....

The Guinea-hen is unknown in Guinea. The Shanghai fowl was never seen in China. The Black Spanish fowl is unknown in Spain. French, Swiss, Dutch and Italian cheeses are made in New York. European wines of the finest grades are made in New Jersey. Moral: It is a wise product that knows its own nationality .- N. Y. Farmer.

## Unreserved Sale of Pedigreed and Registered Shire Horses



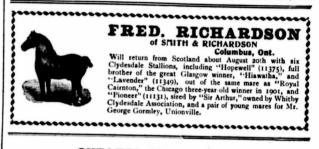
Comprising Five Stallions, Twelve Mares and Fillies in foal, and Three Colts.

#### At the Stables of the Proprietors, on Thursday, Nov. 13th, 1902, at 2 p.m.

A number of these horses have been prize-winners in England, at Toronto Spring Show, Toronto Industrial and London Shows.

Catalogues furnished on application, which will give full particulars of sale, pedigree of horses, and information how to reach Fonthill.

MORRIS & WELLINGTON, Proprietors, : : : Fonthill, Welland Co., Ont.



# ONTARIO PROVINCIAL nter H

Combination Exhibition of both Live and Dressed Cattle, Sheep, Swine and Poultry, also a Dairy Show, WILL BE HELD AT-

# Guelph, Ont., December 8 to 12

Over \$7.000 00 Offered in Prizes Live Stock Entries Close November 22nd Poultry Entries Close November 24th.

Experts will deliver practical Lectures on interesting Live Stock, Poultry and Dairy Topics. Increased Accommodations this year for the convenience and comfort of visitors, exhibitors, and their exhibits.

#### RAILWAY RATES-Single Fare from all points.

For Prize List, Entry Form, and any further information, apply to

A. W. SMITH, President, Maple Lodge, Ont.

A. P. WESTERVELT, Secretary, Parliament Buildings, Toronto, Ont.

# WESTON HERD **Improved Large Yorkshires**

Special low prices for extra choice young pigs from mature imported and home breds tock of highest quality and most fashionable breeding. Pairs and trios not akin; boars fit for service; sows ready to breed and in farrow. Satisfaction guaranteed.



# OAK LODGE YORKSHIRES



Years of CAREFUL BREEDING have made

Years of CAREFUL BREEDING have made the OAK LODGE YORKSHIRES the Stand-ard of Quality for IDEAL BACON HOGS. The championship squinst all breeds has been won by this herd for 4 years at the Pro-vincial Winter Fair, on foot and in dressed carcase competition.

J. E. BRETHOUR, Burford, Ont.

# Market Review and Forecast

#### Office of The Farming World, Confederation Life Bldg.

Toronto, Oct. 27th, 1902. The cooler weather of the past week or two has stimulated trade considerably. Prices for most staples are firm. Money is a little easier, though nothing can be had on call at the banks at less than 6 per cent.

Wheel.

Though local markets are quiet and steady there is a leeling in speculative circles in Chicago and elsewhere that higher prices will prevail. Some are looking for 80 cent wheat at Chicago in December. But it is only the bullish element that believes this. The strengthening of the American corn market has made wheat firmer. The world's supply in prospect is large and there will likely be a good surplus when the year is over. Prices for Manitoba rule firm at Fort William No. 1 hard at 72c to 73c afloat, and No. 1 Northern at 70c to 71c. The market here rules steady at 66c to  $67\frac{1}{2}c$  for red and white, 65cfor goose, and spring at  $65\frac{1}{2}c$  at market red and white bring  $69\frac{1}{2}c$ , goose 65c and spring file 67c**a** bushel.

#### Oats and Barley

There seems to be a temporary scarcity of oats at market centres. Farmers have not begun yet to market this year's crop. The market is firmer at Montreal at 34½c in store. Prices here rule at 31c to 32c at outside points. On the farmers' market here oats bring 36c a bushel.

A good demand for barley for export has sprung up. Prices here are 39c to 43c at outside points. On Toronto farmers' market barley brings 43c to 45% a bushel.

#### Peas and Corn

Peas rule steady at 77c afloat at Montreal. Here quotations are 71c to 72c for choice milling at outside points.

Corn keeps firm. At Montreal, Canadian is quoted at 72c in car lots. Here Canadian yellow sells at 63% west and American at 69c in car lots, Toronto.

#### Bran and Shorts

Ontario bran has advanced to \$15.25 and Manitoba to \$16 in car

# **POULTRY** !

I am buying for the English Market Can take any number of good plump birds, live or dressed, and pay daily by cash or check on Bank of Montreal, Tofonto. JAS. RUDDIN, 33 Jarvis St.

M. P. MALLON, Manager.



lots at Montreal. Shorts are quoted at \$18.00 to \$19.00. City mills here sell bran at \$15.00 and shorts at \$20.00 in car lots f.o.b. Toronto.

#### Potatoes and Beans.

Potatoes are quoted at Montreal at foc to 65c in car lots. Prices are firm here at 75c to 78c for car lots on track Toronto. On the farmers' market potatoes bring 51.00 to 51.10 a bag.

tatine's inflattice pointers bring  $S_{1.00}$  to  $S_{1.10}$  a bag. Beans are firm. Montreal quotations are  $S_{2.00}$  to  $S_{2.05}$  in car lots and  $S_{2.10}$  to  $S_{2.25}$  in a jobbing way.

#### May and Straw.

American buyers are still contracting for large quantities of baled hay east at \$5,00 f.o.b. at country points. Canadian hay continues in good demand in England. Montreal quotations are, No. 1 timothy, \$9,00; No. 2, \$800 to \$8,50, and clover, \$7,50 to \$7,50 per ton. No. 1 baled timothy is quoted here at \$9,50 in car lots on track. On Toronto farmers' market timothy brings \$14,00 to \$17,00, clover \$6to \$10,00, sheaf straw \$12,50, and loose straw \$82,50 per ton.

#### Eggs and Poultry

The egg market is strong with an upward tendency. As high as  $16\chi c$  to 17c have been paid at country points east during the week. Fresh selected stock is quoted at Montreal at  $17/\chi c$  to 18c in case lots. Here selected stock rules firm at 18c to 18/ $\chi c$  in a jobbing way. On Toronto farmers' market new laid bring 24c to 25c and held stock at 18c to 20c a dozen.

At Montreal dressed turkeys and chickens have sold at 12½ to 13c in case lots. Very few are coming forward. Receipts are light here. Quotations are 50c to 70c for old, and 60c to 80c a pair for ducks and geese 6½ to 7½ e per 1b., turkeys 10c to 11c for young and 9c to 10c for old. On Toronto farmers' market prices rule at from 15c to 20c per ewt. higher.

Until further notice the Toronto Poultry and Produce Co., 470 Yonge street, Toronto, will for poultry and eggs pay the following f.o.b. at shipping point:

Chickens (this year's) per 1b. 7c,

chickens (last year's) per lb. 4c, turkeys (this year's) per lb. 9c, ducks per lb. 7c, geese 5c per lb., eggs per doz. 16c f.o.b. Empty crates, egg cases and butter boxes are supplied free of charge, the outgoing charges being paid. The net express charges are paid on butter and eggs.

#### Fruit.

The total shipment of apples so far this season is 479,490 bbls. as compared with 120,272 bbls. for the same period last year. At Montreal sales of winter varieties are reported at \$2.25 in car lots and \$2.50 to \$2.60 in a jobbing way, No. 2 at \$1.75 to \$2.25, and inferior at \$1.00 to \$1.50 per bbl. On Toronto fruit market apples bring \$1.00 to \$1.50 abl.

#### Cheese

The statistical position of cheese is very strong. The falling off in Canadian exports during the past few weeks, has greatly stimulated the English demand. It would seem as if Canadian dealers controlled the situation as they have stored a large share of the Sept. and Oct. make in Montreal. Very little summer cheese is held on this side. Finest Westerns are quoted in Montreal at 11 kc to 11 kc.

#### Butter

The butter market rules quiet but steady. Finest creamery is quoted at Montreal at  $20\frac{1}{3}c$  to  $21\frac{1}{3}c$ . Factories are asking  $10\frac{3}{3}c$  to 20c for fine lines. Ontario creamery is quoted at 19c to 20c as to quality.

Offerings are heavy here and the market active. A great deal of the



shipments are of interior quality. There is a good demand for choice grades. Creamery is quoted at 20c to 21c for prints and 19c to 20c for solids, dairy tubs and pails at 15c to 16c and pound rolls at 16c to 18c. On Torouto farmers' market pound rolls bring 15c to 20c each.

#### Cattle

The cattle markets rule steady with lower prices tor the poorer grades. On Toronto cattle market on Friday the run of live stock comprised 4.65 cattle. 1.205 hogs, 992 sheep and lambs and 25 calves. The quality offered was not good, too many rough unfinished ones being offered. The best exporters sold at from 54,50 to 54,75 per ewt. Butchers' cattle were duil at public ones. Feeders and stockers of best quality were in tair demand. Export Cattle.—Choice loads of heavy shippers are worth from \$4.75 to \$5.00 per cwt., medium exporters \$4.25 to \$4.50. Heavy export bulls sold at \$4.00 and light ones at \$3.75.

Butchers' Cattle.--Choice picked lots of these, equal in quality to the best exporters, weighing 1,075 to 1,150 lbs. each sold at \$4,50 to \$4,75 per cwt. Choice picked lots of butchers' heifers and steers, 950 to 1,055 lbs. each, sold at \$4,25 to \$4,50, good cattle at \$3,00 to \$3,50 medium at \$1,00 to \$3,40 and inletior to common at \$2,25 to \$2,75 per cwt. Loads of butchers' and exporters' mixed sold at \$3,85 to \$4,45 per cwt.

Feeders. Steers, 1,00 to 1,100 lbs, each, are worth \$3.75 to \$1.25 per cwt., and light feeders, \$00 to \$00 lbs, each \$3.50 to \$3.75 per cwt.

Stockets.-Well bred you is steers weighing 500 to 700 lbs. each, are worth \$1.25 to \$1.50 and off colors and those of inferior quality at \$2.25 to \$1.00 per cwt.

YE: OLDE FIRM OF HEINTZMAN & CO.

# WONDER Bargains in Organs

Here is a list of Organs that are bound to be quick sellers. All are in good condition before we offer them to buyers. The prices are so little, the terms so easy, that there is hardly anyone who need be without a musical instrument in their house.

Uxbridge Organ, piano case. 11 stops, 4 sets of reeds, treble and base coupler, grand organ and knee swell, used less than six months. Manufacturers' price \$175, special **\$79.00** -\$10 cash and \$54 month.

Dominion Organ, high back, 11 stops, 4 sets of reeds, treble and bave coupler, grand organ and knee swell. Manufacurers' price, \$110; our special \$47..\$5 cash and \$4 a month.

Bell Organ, high back, 11 stops, 4 sets of reeds, treble and base coupler, grand organ and knee swell. Manufacturers' price \$115; our special \$49 --\$5 cash and \$4 a month.

Kilgour Organ, high back, 9 stops, Soctaves, 4 sets of reeds. Manufacturers' price \$90; our special **\$4:5**--\$5 cash and \$4 a month. . Bell Organ, medium high back, 9 3 stops, 4 sets of reeds, 5 octaves, grand organ and knee swell. Manufacturers' price \$80:100 rspecial \$37-\$4 cash and \$3 a month.

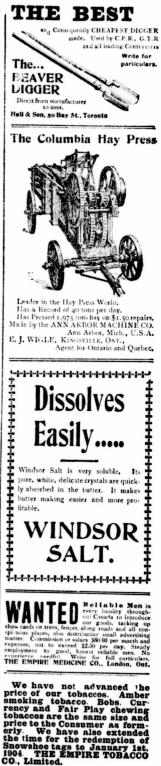
Uxbridge Cabinet Organ 4 sets of reeds, 5 octaves, 6 stops, knee swell. Manufacturers' price \$85; our special \$18-\$4 cash and \$3 a month.

Bell Organ, 8 stops, 4 sets of reeds, medium high back, octave coupler and knee swell. Manufacturers' price \$00; our price \$35-\$4 cash and \$3 a month.

Thomas Organ, piano case 11 stops, 4 sets of reeds, treble and base coupler, grand organ and knee swell, fully equal to new. Manufacturers' price \$125; our price \$85-\$10 cash and \$5 a month.

We guarantee these organs just as described. Fifty years of square dealing with the Canadian public is a guarantee of any business that you may do with us. Special attention paid to orders by mail.





Calves.—At Toronto market good to choice calves bring \$3.50 to \$5.00 per cwt. and \$3.00 to \$10.00 each.

Milch Cows.-These sold at \$35 to \$45 each.

#### Sneep and Lambs

These rule steady at \$3.25 to \$3.40 per cwt. for ewes and \$2.50 to \$2.75 for bucks. Spring lambs are worth \$3.50 to \$3.75.

#### Nogs

Hogs held at \$6.10 all week for best, but on Friday they dropped to \$6.00 for select bacon hogs and \$5.75 for lights and fats.

to  $5_{0.00}$  for select bacon hogs and \$5.75 for lights and fats. For the week ending Nov. 1st, The Wm. Davies Co., Toronto, will pay \$6.00 for select bacon hogs, \$5.75 for lights and \$5.75 for overweights.

weights. The Montreal market is steady. Packers there are paying \$6.00 to \$6.25 per cwt. for bacon hogs. The Trade Bulletin's London

The Trade Bulletin's London cable of Oct. 23rd, re Canadian bacon, reads thus:

"The market is demoralized, owing to heavy shipments from Denmark, and Canadian bacon has taken a further drop of 4s per cwt. being quoted at 59s to 63s."

#### Horses

The big trotting sale at Grand's last week passed of well. 60 horses were sold for a total of \$13,000. The highest price paid was \$465 for a brown mare 6 years old, Lady Brino. Her mate Casey, a bay gelding 7 years old sold for \$170. The mare Darkness sold for \$325. Prices ranged from these figures down to \$100 each. They were the speediest lot of horses ever offered at Grand's.

There is a fairly good demand for work horses but people prefer to do without rather than pay prices asked.

"Mike, d'I ever tell ye the story av the dirty window?"

"Yez did not. Tell me about ut." "No use. You couldn't see through it."





To the man who wants to regain his youth, who wants to feel like he did when he was budding into manhood, I offer a book which will show him the road to happiness—a book which will give him courage and enlighten him as to the causes and cure of his troubles. It will point out the pitfalls and guide him safely to a future of strength and manhood. It is becautifully illustrated. It tells what other men have suff red and how they have cured themselves. It is free. I will send it, closely sealed, without marks, if you will send this ad. If you are not the man you ought to be, send for it to-day.

My Dr. McLaughlin Electric Belt builds up brokendown men, restores youth and manhood and makes men look and feel strong. It will cure every case of Rheumatism, Nervous Debility, Weak Stomach, Kidney and Liver Troubles, Lame Back, Sciatica, Varicocele, Lost Vitality and every evidence of weakness in men and women. It will not fail, it cannot fail, as it infuses in the weakened nerves the force of life and strength.

Put it on when you retire: you get up in the morning refreshed and vigorous, with courage in your heart and a clear head, full of ambition for your daily work.

I have now used your Belt for one month. I have gained five pounds in weight; I neep better, and that a will nervousness is gone.-JAMES LENNIE, 103 Lock Street R., Hamilton, Crt.

I can say that your Belt is all that you claim for it. I have tested its merits. The varicocele has disappeared. -JEROME RICHARD, Welland Station, Ont.

I am offering my Belts on terms never equalled before. When a man says, "I'll cure you before you pay me," that denotes confidence. I have that confidence, for my years of experience have taught me the proper way of applying electricity. You may use the Belt en:irely at my risk, and if you are not satisfied it costs you nothing. All I ask of you is evidence of your good fauth in the form of reasonable security. Give me this, and I will send you the Belt on conditions of

# NO CURE, NO PAY.

**CAUTION.**-People write me that they have used Electric Belts and received no benefit. I wil explain why. They have purchased from firms who have practically no knowledge of electricity and the manner in which it should be applied.

Dr. MoLaughlin's Electric Belt is the only e cotric appliance that is sold where the patient is under the care of a physician u til he is cured. The succes of any electric appliance depends upon its intelligent application.

I have a ni ely illustrated book which every man should read. I will send it, closely scaled, irea.

BR. B. A. MOLAUGHLIN, 130 Yenge St., Toronto, Ont. Office Hours-9 a.m. to 8.30 p.m.



ANY farmers are sceptics when the merit of some new article is pointed out to them. All the officials of the Paterson Manufacturing Co., Limited, were raised on a farm. We know how often the farmers have been deceived, and don't blame them for being cautious. When we tell you that our Patent Wire-Edged Ready Roofing is better and more economical than shingles, and our Heavy-Tarred Felt Paper is the best material known to-day for lining Poultry Houses, we know what we are talking about, and mean every word we say. Nearly all hardware merchants can tell you about our business reputation, and any banker will give you our financial standing.



A shows method of laying Red Star Brand Wire Edged Ready Roofing, with 2-inch laps accured by nailing 2 inches a part. B B shows wire running through the edges of the roofing, giving it great strength at the joints or laps—a very desirable feature, especially in localities where high winds prevail.



#### LEAKY SHINGLE ROOFS

May be made WATERTIGHT and DURABLE, without removing the shingles, by covering the roof with Red Star Brand Ready Roofing.



### Important

You've got some Leaky Shingle Roofs ! Or else you're going to build this season !

In either case use our **Patent Wire-Edged Ready Roofing** and you'll be satisfied. Don't forget the fact that this Roofing is **Durable**, **Economical** and **Fire-Proof**.

Cover your Poultry Houses with Ready Roofing, line them with our heavy Tarred Felt Paper, and you'll get plenty of eggs next winter when eggs are worth something.

