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FRUIT MEDICINE**

Home in Canada Needs
"FRUIT-A-TIVES"

Persons suffering with Indigestion, Liver, Constipation, Sick Headaches, Neuralgia, Kidney, Rheumatism, Pain in Stomach, Eczema and other skin diseases, "Fruit-a-tives" gives relief and assures a speedy recovery when the treatment is followed.

"Fruit-a-tives" is the only medicine from Fruit—containing the vital principles of apples, figs and prunes, combined with tonics and antiseptics. Price, 5 for \$2.50, trial size, 25c. Dealers or sent postpaid by Fruit-a-tives Limited, Ottawa, Ont.

MEDICAL

NEWELL, PH. B., M.D.
P. & S., M. B. M. A., England,
Senior County of Lambton,
Watford, Ont.

Corner of Main and Front streets,
Watford, Ont.

SAWERS, M. D.
WATFORD, ONT.

OFFICE (N. E. CORNER) Main
Street, Watford, Ont. Phone
1234. Night calls Phone 1234.

SIDDALL, M. D.
ONTARIO

Victoria Hospital, London,
Ontario. In office formerly occupied
by Dr. Kelly. Day and night calls phone
1234.

DENTAL

GEORGE HICKS,
Dental Surgeon.

UNIVERSITY, L. D. S.,
Dental Surgeon, Post graduate
Diploma in Orthodontia and
Crown work. The best methods employed to
repair teeth. Office—over Dr.
Taylor & Son's drug store
Watford, Ont.

HOWDEN
D.S., L.D.S.

Member of the Royal College of Dental
Surgeons, Ontario, and the University
of Toronto. The latest and most approved
methods used. Special attention
given to Bridge work. Office—over Dr.
Taylor & Son's drug store
Watford, Ont.

ELLIOT
Dental Surgeon.

Member of the Ontario Veterinary
Association. A specialist in the treatment
of all kinds of domestic animals treated on scientific
principles. Office—over Dr. Kelly's
office, Main Street, one door north
of the Guide-Advocate office.

ELLIOT
Real Estate Auctioneer

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Association. A specialist in the treatment
of all kinds of domestic animals treated on scientific
principles. Office—over Dr. Kelly's
office, Main Street, one door north
of the Guide-Advocate office.

HOLLINGSWORTH
Real Estate Auctioneer

Member of the Ontario Veterinary
Association. A specialist in the treatment
of all kinds of domestic animals treated on scientific
principles. Office—over Dr. Kelly's
office, Main Street, one door north
of the Guide-Advocate office.

TRY FARM

For sale: Lincoln sheep,
Yorkshire and black leg
roan bull calf for sale,
good strong registered
id two year old rams
and ewes. No reasonable
offer.

X, Kerwood P.O.

HONEY

and Decorator
and Hanging

ONTARIO

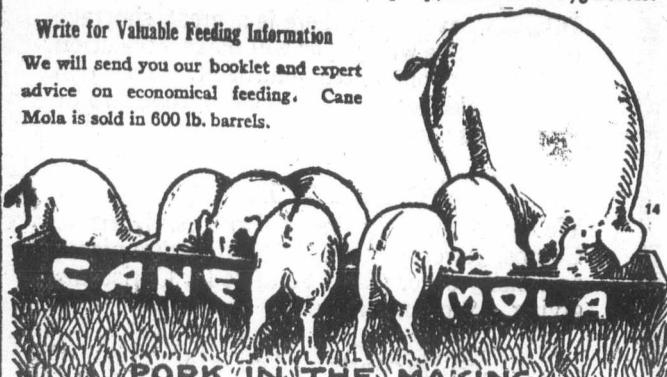
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PRICES
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AND
KEEP THEM GOING!**

Cane Mola Saves You the Cost of Expensive Prepared Feeds.
Successful farmers are constantly re-ordering in ever-increasing quantities. Live stock gain weight rapidly, and look 100% better.

Write for Valuable Feeding Information
We will send you our booklet and expert advice on economical feeding. Cane Mola is sold in 600 lb. barrels.



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EQUALLY GOOD FOR HORSES,
COWS, SHEEP and BEEF CATTLE

Car load of "Corn Mola" is now enroute. Place your orders with our distributor.

TRENOUTH & CO.
WATFORD DISTRIBUTORS.

Cane Mola Co. of Canada, Limited
118 St. Paul St. W., Montreal, Que.

SAVE WINTER FODDERS

By Putting the Grain-Grinder and Cutting-Box in Shape.

It Pays in Time and Money to Overhaul Farm Machinery—Hints on Knife Adjustment—How to Estimate the Speed of Pulleys.

(Contributed by Ontario Department of Agriculture, Toronto.)

TIME in farm work will be saved by systematically overhauling the implements and machinery. This should be done after the season's work is over. Use tends to disorganize machinery: the fixed parts become loose through vibration, wear, stress, and strain; bearings, gears, joints, all bright and moving parts are attacked by rust, particularly if left out in the weather; oil holes and grease cups become clogged with gummed oil, dust and trash. All this accumulated matter should be scraped off and the parts wiped down with a rag saturated with kerosene; afterward covered with a coating of grease or oil as a protective measure against the devastating action of rust. To render efficient service and to prevent possible accidents these machines should be kept clean, properly adjusted, and run at correct speed.

The grain grinder shaft and bearings should not be allowed to become gummed up with oil and dust; the burrs or plates should be renewed when worn. In replacing them see that they are attached so that they do not wobble, and that the sieves are free from rust, chaff, sand and gritty matter. All running parts should be kept well oiled.

Every working mechanism of the cutting box should be carefully examined and all trash and gummed oil removed from flywheel shaft, feed rolls, bearings and gears; guards and shields placed in position and securely fixed; the feed rolls should move freely up and down and the safety devices in working order. Attend to the cutter knives, have them properly ground and correctly adjusted to the flywheel in relation to the cutter bar; if too far the fodder will not be properly cut; if too close to the cutter bar the draft of the machine is increased, the knives acting as a brake on the flywheel, dulling both knives and cutter bar. Used with a blower it is important that the proper speed be developed as the fan can only create sufficient blast by running fast enough to force air through the pipe at a rate of 9 to 10 thousand feet per minute. Speed is an important factor in operating these machines for efficient service, not only as to the amount done, but also as to the quality, or the amount of work accomplished, but most manufacturers state in their catalogues the speed at which the machine should travel. The operator should figure out the size of the pulley to attain the speed required.

The rule for speeds of pulleys is the diameter of the "driving" pulley multiplied by its speed is equal to the diameter of the "driven" multiplied by its speed, or $D \times R = d \times r$ in which "D" is the diameter of the driving pulley multiplied by "R" its speed, and "d" the diameter of the driven pulley multiplied by "r" its speed. If we know three of these items we can easily figure out the fourth.

The driving pulley is the one that causes the belt to move.

The driven pulley is the one that is moved by the belt.
Possibly a farmer may have on hand an engine rated 2 h.p., speed 400 revolutions per minute with an 8-inch pulley. He buys a grinder without considering what relation its speed bears to that of his engine. When the grinder is delivered up to the engine it does not deliver the capacity expected of it. This promiscuous buying and want of forethought in purchasing machinery is responsible for a great deal of trouble and dissatisfaction. More attention should be given in this regard when buying additional machinery for the farm. We'll suppose that the grinder bought is rated 2,000 to 2,500 R.P.M., 4 inch or 5 inch pulley; capacity per hour 3 to 10 bushels depending on the condition of the grain.

Relating this grinder to the engine, we find, taking the above formula that $88 \times R = 400 - d \times r = 8 \times 400 = 3200$
R.P.M., but the manufacturer's rating calls for 2,000 to 2,500 R.P.M. Hence the grinder is delivering only two-fifths of its rated capacity or something like 1.1-1.5 bushels per hour. To get the required speed the driving pulley on the engine should be 20 inches in diameter, worked out as follows:

$D \times R = 400 \times 2000 = 800,000$
or the speed of the engine with an 8-inch pulley should be 1,000 R.P.M. worked out thus

$D \times R = 4 \times 2500 = 10,000$
This method applies also to finding the speed and size of pulleys of the cutting box.—Prof. Jno. Evans, O. A. College, Guelph

**A Few Specials Below
the Market**

- Electric Light Bulbs..... 35c ; 3 for \$1.00
- Perfection Oil Heaters, large size.... \$7.00
- Vacuum Cleaners..... \$3.00—worth more
- Food Choppers..... \$1.90 to \$3.50
- Lanterns..... \$1.25 to \$2.00
- Halters..... \$1.00 to \$2.00

N. B. Howden Estate

**GIRLS WANTED
at The Andrews Wire Works.**

Good wages, short hours, light and pleasant work and cheerful surroundings, light and sanitary workshop.

Apply to
W. L. MILLAR
Superintendent.

PLUMBING and TINSMITHING

The undersigned having purchased the Plumbing and Tinsmithing business of T. Dodds & Son, is prepared to attend to the wants of the public in any branch of his line.

A full line of Plumbing and Heating Goods will be kept on hand at all times.

Agent for the SUNSHINE, RADIUM and HECLA Furnaces. Bawtrotting and repairing of all kinds promptly attended to.

The patronage of the public respectfully solicited.

EDWARD MACKNESS
The Old Stand—T. Dodds & Son's.

Something About Egg Circles.

There are about fifty Egg Circles in the province, ranging in membership all the way from four to 400. The story of all these egg circles and others which have failed would give an almost complete picture of how co-operation should, or should not, be carried on. In reading over the names where the circles are established, we find many of them whose previous market was the small-town local dealer, with his uneconomical method of marketing eggs. Such circles are now receiving, in spite of their distance from the central market, wholesale prices while unorganized points nearer often receive lower prices.

For Frost Bites and Chills.—Chills come from undue exposure to sun and cold, and frost-bite from the icy winds of winter. In the treatment of either there is no better preparation than Dr. Thomas' Electric Oil, as it counteracts the inflammation and relieves the pain. The action of the oil is instantaneous and its application is extremely simple.

NEARLY 3,400 KILLED.

In Ontario last year, the lives of 3,380 persons were claimed by consumption. This is all the more terrible because most of them might have been saved had they been helped in time.

Here is a case in point. Several years ago a man came to the Muskoka Free Hospital for Consumption. He had been on Active Service in Africa, where hardship and exposure had broken down his health. Suspicious of his symptoms he sought our aid. A short time ago he wrote:

"Through your Hospital a soldier of the South African War regained his health and a family a happy home."

This is not an isolated case, for many others have been restored to health and anxious families. It takes much money to carry on the work. Your gift, for whatever amount, will be gratefully received.

Contributions may be sent to Sir William Gage, 84 Spadina Avenue, or George A. Reid, 223 College Street, Toronto.

Sarnia and Port Huron are growing very rapidly. There have never been such opportunities for young people who have a good training in Bookkeeping and Stenography.

The Secretarial Course in
Sarnia Business College
gives this training.
College opens for Winter Term, January 5th.

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Pease
"ECONOMY"
FURNACE**

**PAYS FOR ITSELF
BY THE
COAL IT SAVES.
MORE HEAT
LESS COAL
MOST DURABLE
MOST ECONOMICAL
COSTS LEAST FOR REPAIRS.**

Come in and talk it over.
C. H. BUTLER

**Taylor's
Throat and
Lung Balm**

is different from ordinary cough syrups, mixtures, etc., because it acts not only upon the throat and lung passages, but also upon the eliminating organs of the body. This enables the system to throw off the worst cough or cold in a few hours.

Taylor's Throat and Lung Balm gives almost instant relief, and as the dose is small—only 1/2 teaspoonful—it cannot upset the stomach.

**Prices 35c,
65c, \$1.20**

Nothing equals our Stomach and Liver Cure for a general tonic.

Taylor & Sons
WATFORD