

# THE JARVIS RECORD

Published by Thursday morning at the office in The Record Building, Main Street, Jarvis, Ontario.

THE RECORD PRINTING COMPANY, LIMITED

THURSDAY, NOVEMBER 12, 1925

## SCHOOL AGRICULTURE

(Continued from Page 1)

marketing farm crops; Production of seed and crop improvement; Judging cereals, clovers, grasses and other crops.

Poultry Husbandry—Importance of farm poultry; classification and characteristics of breeds important to Ontario; construction of poultry houses; incubators and incubation; brooders and brooding; rearing of young stock; poultry feeds; care of laying hens; fattening cockerels; killing and plucking (practical); breeding; judging for egg production (practical); egg grades; poultry diseases; the farm poultry plant.

Farm Dairying—Sanitary milk production; utensils and equipment for the dairy farm; care of utensils; cream separators; milking machines; milk and cream testing; sediment test; milk records; the manufacture of farm dairy butter, soft cheese, ice cream and milk drinks.

Veterinary Science—Care of animals during gestation and parturition; Cares of horses' feet; Animal parasites; Common ailments of farm animals; Simple remedies and their application.

Horticulture and Vegetable Growing—Orchards: planting and management; Small Fruit Varieties: planting and management; Farm Vegetable Garden: Vegetable varieties and best garden practices; Plant Propagation: Layers, cutting, budding, etc.; Floriculture in farm home and grounds; Sprays and spraying.

Soils and Fertilizers—Soils: Structure and composition; relationship of texture, moisture, temperature, air, to production capacity of soils. Tillage systems suited to different soils and seasons. Tillage implements and their action upon soils. Manures: Care and application of barnyard manure; commercial fertilizers—their nature and use.

Elementary Physics and Chemistry—A few popular lectures on the classification of the elements and their compounds; talks on the properties of heat, light, sound, electricity and magnetism.

Drainage and Land Surveying—Benefits to be derived from drainage; principles of tile drainage; taking of levels, making and reading of survey maps; methods of putting in systems of drains, including tie, open ditches, silt basins and outlets; chain-measure and making measurements of farm fields.

Farm Mechanics—Plans of stables, barns and piggeries, including lighting and ventilation; construction of silos; farm water supply and sewage disposal; the care and use of tools and farm work shop practice; machine belts and lacing; ropes, knots and splices; repair of wood, metal, leather and rubber equipment; care of farm machinery; the use of concrete on the farm.

Gas Engines and Farm Tractors—General principles of the gasoline engine; electricity; carburetion; ignition system; batteries and magnetos; lubrication; operation and care of gas engines and tractors; engine troubles and how to locate and remedy them.

Agricultural Botany—How plants grow; identification of weeds & weed seeds; study of habits and growth and methods of eradication of weeds according to their type; the Seed Control Act and its application; study and treatment of common diseases of field, orchard and garden crops, such as rots, smuts, blights, rots and scabs.

Economic Entomology—Study of common insects affecting field, orchard and garden crops; sprays and spraying for insect control.

Bacteriology—The study of bacteria in relation to agriculture; plant and animal diseases; sanitation; bacteria in the soil, in milk, in silage, etc.

Farm Management—Land, labor, capital, organized credit and mortgages. Commercial paper, drafts, notes and contracts. Simple forms, farm accounts and records. Insurance—fire, hail, animal. Analysis of the business of successful farms. Preparing and analyzing plans for various types of farming. Experimental station bulletins and their uses.

Civics—The organization of Municipal, Provincial and Federal Governments.

Marketing—Principles of marketing, including grading of farm products; relationship of supply and demand. (Continued on Last Page)

## SILAGE FERMENTATION

HOW THE SILO AFFECTS GOVERNMENT FOR FEED.

A Matter of Temperature and Air—Importance and Effect of Acid Formation—Steer Feeding—Silage and Grain Made Balance Food.

(Contributed by Ontario Department of Agriculture, Toronto.)

The first evidences of change in the finely-cut fodder are a rise in temperature and the production of carbonic acid gas. The heat can be demonstrated by hand and the presence of carbonic acid gas is always to be suspected, since the lessons learned during the old days of closed silos still remain firmly impressed on the minds of many. The oxygen in the mass of cut fodder is quickly used up early in the process of fermentation. The temperature remains around 100 degrees F. except at the surface or at points where air is admitted, going much higher. The continued presence of air or oxygen the mass prevents the development of molds. Molds are harmful in that they destroy or use up the acids required for the preservation of the silage. Air-tight walls and a well consolidated mass are very essential in the control of fermentation.

How Corn Changes in the Silo.

The green corn changes to yellow, then brown and develops an aromatic odor and sour taste. The sourness is due to the development of lactic acid, the important preserving agent in silage making. Bacteria which cause decay and molds are inhibited in the acid poor medium of fermented corn. The total amount of acid formed is between one and two per cent. of the weight of silage. Other products of the fermentation are alcohol and sugar. The amounts of these are not large, being in the case of alcohol .1 to .4 per cent. or the weight of silage. The amount of sugar which disappears from the corn is almost exactly equivalent to the amount of alcohol and acid formed during fermentation. About one-half the sugar present in the recently ensiled corn is cane sugar. This is broken up into glucose and then changed to alcohol and acid. These changes take place rapidly and are generally completed in 12 days, giving an excellent preservative medium, that will keep ensilage for years.

How Fermentation is Produced.

The fermentation is brought about by plant enzymes carried by the corn, bacteria and yeasts, which may be attached to the cut corn or drift into the silo as it is being filled. The sugar in the green corn juice is attacked by the invertase carried by the plant cell and reduced to simpler forms. These simple forms are attacked by amylase and a small amount of alcohol is formed. Acid forming bacteria also attack the sugars and bring about the change resulting in the mass being largely acid in character and therefore in a condition to keep. L. Stevenson, Dept. of Extension, O.A.C., Guelph.

STEER FEEDING.

Test Conducted at the Experimental Station for Southwestern Ontario at Ridgeway.

Twenty-three steers, averaging in weight 1,145.6 pounds, were fed for 112 days, making a daily gain of 1.94 pounds or 219 pounds per steer. The total gain for the twenty-three head was 5,046 pounds made at a cost of 8.15 cents per pound.

These steers were fed in an open shed and yard. Silage and grain were fed in a manger running the full length of the shed and handy to the silo and feed room. The roughage consisted of a mixture of corn, barley, oats, oil meal, and Soy bean meal. The Soy bean meal was gradually increased in the ration to one pound per day. The total grain ration was two pounds per day, this was increased gradually to eight pounds per day near the close of the feeding period.

The steers consumed a total of 46 1/2 tons of silage, ten loads of corn fodder and grain valued at \$232.19 market price. The total feed cost valuing silage at \$3.00 per ton and fodder at \$19.00 per load, was \$411.69.

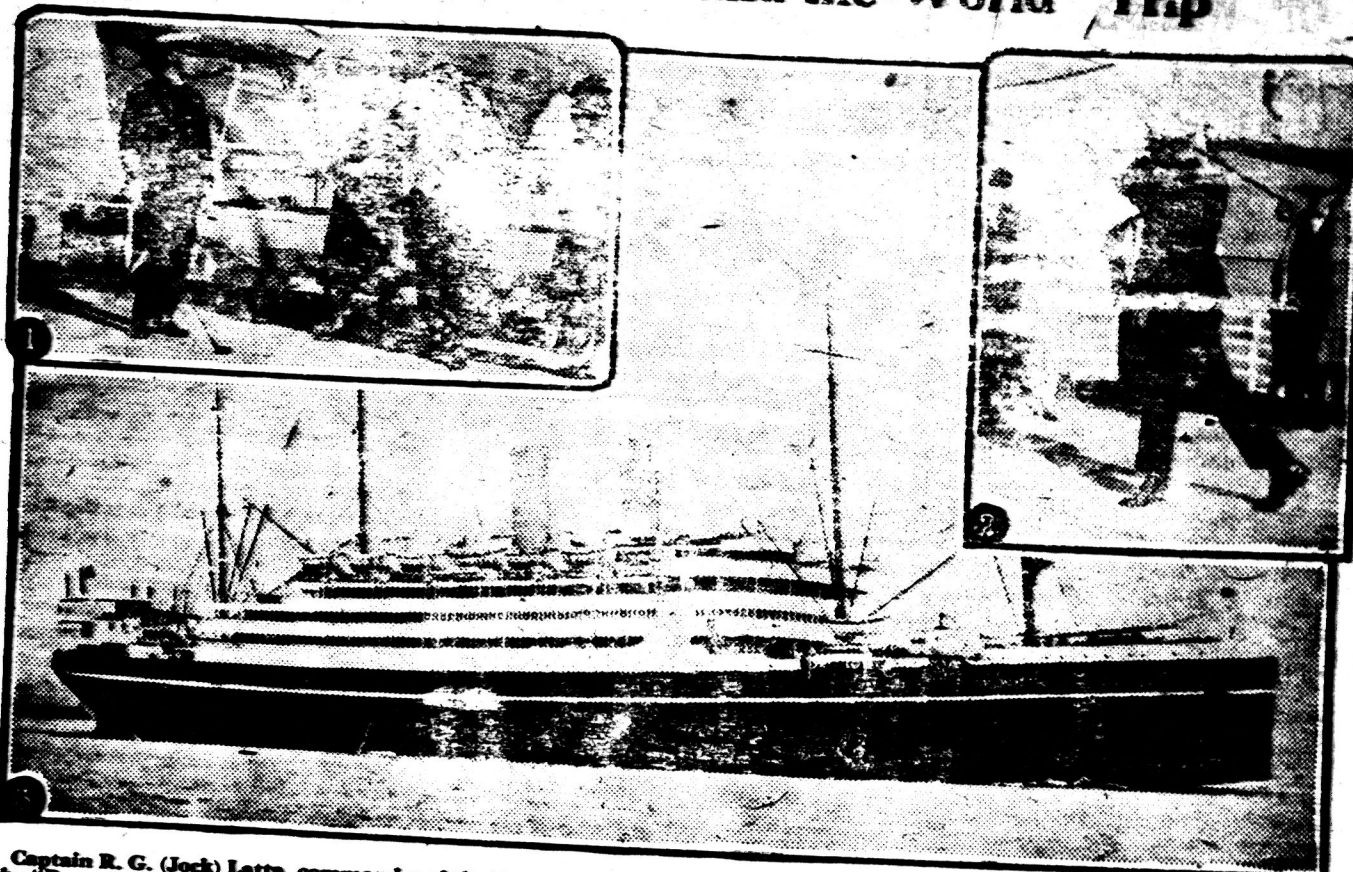
The spread between purchase price and selling price was \$1.25 per hundred pounds live weight. The gain over cost of steers and feed was \$175.39. The manure may also be considered a gain sufficient to cover the cost of labor.—L. Stevenson.

Dealing With the Broody Hen.

Extensive and thorough experiments dealing with the broody hen problem have proved conclusively that broodiness can, to a very large extent, be bred out of a flock. To achieve this end, the prime essential is never to hatch chicks from eggs laid by the hen that is prone to broodiness. This, naturally, is a method that takes time. One or two years will not eliminate broody hens from a flock, but there will be fewer of them and they will not be so persistent in their broodiness.

Says Dr. McCollum, the great specialist on human nutrition: "Milk is the great factor of safety in making good the deficiencies of the grains which form and must continue to form the principal source of energy in our diet. Without the continued use of milk not only for feeding our children but in liberal amounts in our cookery we cannot as a nation maintain the position as a world power to which we have aspired."

## Teeing off for a "Round-the-World" Trip



(1) Captain R. G. (Jack) Latta, commander of the Empress of Scotland just prior to teeing off from the deck of his ship as a member of the "Round the World Golf Club." (2) Captain R. G. (Jack) Latta, commander of the Empress of Scotland, splitting the silver floor, which will sail on a tour of the world from New York December 3rd next.

Here you see Commander R. G. (Jack) Latta, of the S.S. Empress of Scotland, flag-ship of the Canadian Pacific fleet, just before and in action as a member of the "Round-the-World Golf Club," teeing off from the deck of his ship and splitting the fairway far into the ocean with the first ball of the tournament. The idea of the club was first started by I. O. Upham, of the San Francisco Golf Club, who on a \$50 bet went ahead with the playing one hole on every course with the same ball. He had all kinds of sport from losing his ball on a Chinese

links and hiring twelve men to search for it, to finding the Copenhagen Golf Club, Denmark, occupied by the whole Danish army. Before returning to San Francisco he had played on 65 courses. Captain Latta is one of the latest members of the Club and a number of fellow members will sail on the Empress of Scotland on December 3rd from New York on the fifth yearly cruise of the globe undertaken by C.P.R. Vessels. The coming trip will cover 27,320 miles, nineteen countries, every kind of climate, race and tongue, and will return to New York April 10, 1926 from a trip occupying 120 days.

### MARVELOUS VALUE

Reports from all provinces indicate that the Family Herald and Weekly Star of Montreal at One Dollar a year is sweeping the country.

The reduction in the price of the Family Herald from \$2.00 to \$1.00 a year makes that great weekly journal more than ever the marvel of the newspaper world. The Publishers have announced that notwithstanding the change in price, every feature will not only be maintained, but improvements will follow.

When one considers the huge volume, wide variety and high quality

### TO SUBSCRIBERS

Our Mailing List has been corrected up to date. Subscribers should examine the date of their label to see if it is correct. If proper credit has not been given kindly notify us at once. Those in arrears are asked to remit the amount of their indebtedness.

### CHURCH SERVICES

ST. PAUL'S ANGLICAN MAJOR CANON PIPER Rector.

Worship at 11 a.m. and 7 p.m. Monday, 4.30 p.m.—Junior Anniversary in Schoolroom.

Tuesday, 2.30 p.m.—Women's Auxiliary. All are cordially invited to attend these services.

KNOX PRESBYTERIAN Rev. W. E. BROWN, Minister.

Services at 11 a.m. and 7 p.m., Sunday, Y. P. S., Thursday at 8 p.m. You are invited to these services. Choir practice, Thursday at 8 p.m.

WESLEY UNITED CHURCH REV. E. BRAND, Pastor.

Services at 11 a.m. and 7 p.m. Y. P. L., Thursday, at 8 p.m.

GARNET UNITED CHURCH 1.30 p.m.—Sunday School.

2.30 p.m.—Church Service. Epworth League and Prayer Meeting on Friday evening at 8 p.m.

of the reading matter in each issue of the Family Herald, one wonders how it can be produced at the price. It is a complete farm journal, a family magazine and weekly newspaper—all three in one at a cost of less than

two cents a week.

For this winter's reading there is no better combination than your local paper and the Family Herald and Weekly Star. Subscriptions may be left at the Record office.

## The Henry R. Crabb Store SIMCOE

We have placed on Sale at very LOW prices, hundreds and hundreds of garments of

## Underwear

For Every Member of the Family

at prices far below the regular price for goods of equal quality. We received over 15 cases direct from the Underwear Factory this week. They do not only include Underwear, but

## Hosiery - Sweaters

All Lines of Winter Necessities

Printer's Ink cannot describe them. You must come and get your share of these wonderful Bargains.

## THE HENRY R. CRABB STORE

SIMCOE AND NORFOLK'S FAVORITE SHOPPING PLACE

SIMCOE, ONT.

VERY CHEAP FOR QUICK SALE  
Brick Store and Dwelling on Main Street, known as the Rodgers property. Also Good Brick House on Church Street.  
R. A. McCARTER

Harris' Market  
FRESH MEATS AND VEGETABLES  
All kinds of Cured Cooked Meats  
Cash Paid for Eggs  
Special attention given to phone orders  
TELEPHONE NO. 50  
Store closes Thursdays at 12 o'clock

Warren Jackson AUCTIONEER  
Sales conducted to meet owners' highest approval  
For List of Dates see m.c. me  
— Phone 66-13 —  
R. R. NO. 3, PORT DOVER

### PROFESSIONAL CARDS

Arrell & Arrell  
Barristers, Etc.  
HAMILTON—Sun Life Building CALEDONIA—Rosen's Block  
HARRISON ARRELL, K.C.  
County Crown Attorney  
S. Cameron Arrell  
J. Edward Stabbs

Kelly, Porter & Kelly  
Barristers, Solicitors, Notaries, Etc.  
W.R. Kelly, J.C. J. PORTER  
County Attorney County Town  
DAVID A. KELLY  
Solicitor for Norfolk County Council  
SIMCOE, ONTARIO  
Money To Loan At Lowest Rates

PHYSICIAN  
L. J. Leatherside, M.D.  
OFFICE HOURS  
10 to 12 a.m. 2 to 4 p.m.  
7 to 9 p.m.  
JARVIS ONTARIO

E. M. Sutherland, B.Sc., M.D.  
OFFICE HOURS  
10 to 12 a.m. 2 to 4 p.m.  
7 to 9 p.m.  
JARVIS ONTARIO

### VETERINARY

DR. A. STACE, D.V.M.  
VETERINARIAN  
Hagersville Phone 24  
MODERATE RATES

DR. BONE, V.S., V.D.  
Fellow C.V.M.A.  
Frequent, Reasonable, Up-to-date  
Hagersville—Phone 35

### DENTIST

Dr. R. G. Hyde  
DENTIST  
Office Hours: 9 to 12 a.m.; 1.30 to 5.30 p.m.  
Office next D. N. Almas' Seed Store  
Phone 126  
MAIN ST., HAGERSVILLE

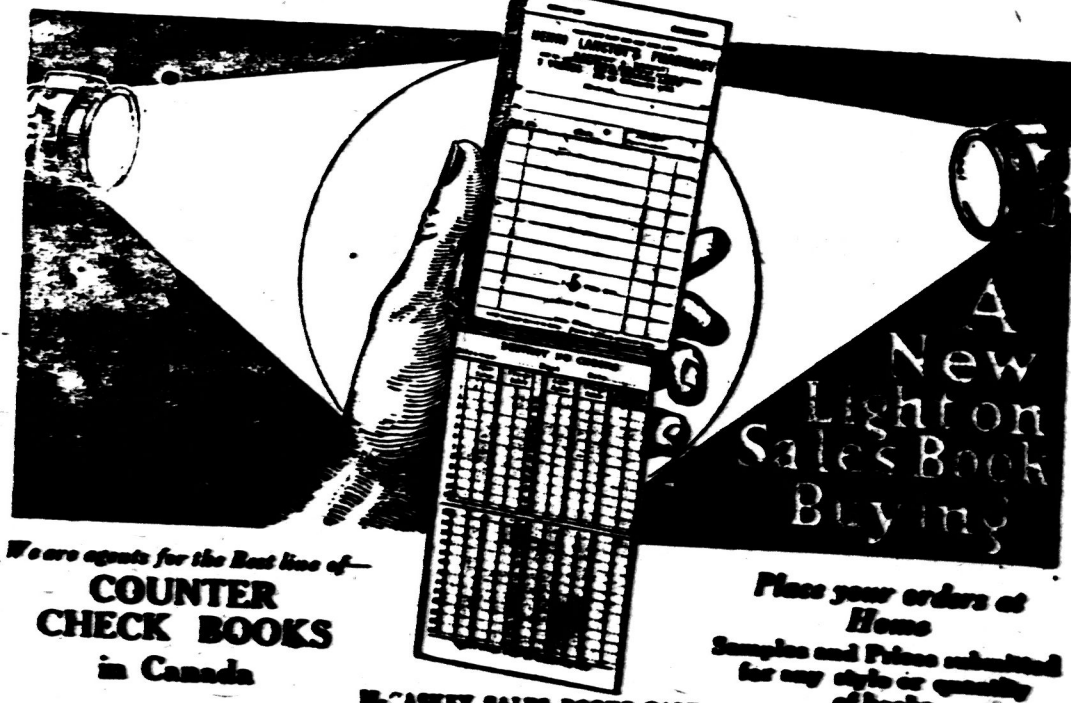
### PIANO TUNING

Alex G. GIBBS  
Expert Piano Tuning  
1200 KING ST. E., HAMILTON  
Leave orders or ask for information at the office of The Jarvis Record.

### LOCAL TRAIN SERVICE

From St.—Pt. Dover to Canfield Jc.  
No. 119—arr Jarvis ..... 7.40 a.m.  
No. 126—lv for Canfield Jc. 7.55 a.m.  
No. 121—arr Jarvis ..... 8.05 p.m.  
No. 128—lv for Canfield Jc. 8.10 p.m.  
From St.—Hamilton to St. Thomas  
No. 224—arr Jarvis ..... 11.00 a.m.  
No. 225—lv for St. Thomas 11.15 a.m.  
No. 226—arr Jarvis ..... 8.40 p.m.  
No. 227—lv for St. Thomas 8.45 p.m.  
From Canfield Jc. to Port Dover  
No. 125—arr Jarvis ..... 9.20 a.m.  
No. 122—lv for Pt. Dover 11.05 a.m.  
No. 127—arr Jarvis ..... 8.10 p.m.  
No. 124—lv for Pt. Dover 8.45 p.m.  
From St. Thomas to Hamilton  
No. 223—arr Jarvis ..... 7.50 a.m.  
No. 222—lv for Hamilton 11.05 a.m.  
No. 229—arr Jarvis ..... 6.00 p.m.  
No. 230—lv for Hamilton 6.10 p.m.  
From Pt. Dover to St. Thomas  
No. 123—arr Jarvis ..... 12.45 p.m.  
No. 120—lv for Jarvis 1.55 p.m.  
No. 124—lv for Jarvis 1.55 p.m.

## THE JARVIS RECORD PRINTING COMPANY, LTD.



We are agents for the Best line of COUNTER CHECK BOOKS in Canada

Please your orders at Home Samples and Prices submitted for any style or quantity of books

McKENNEY SALES BOOKS-CALY

WOOD FOR SALE  
G. Second, Nanticoke, 1-12 Solihit.

LOST—Music roll, mistake in strong card, or please return same.

FOR SALE—Choi, from Duff & Son, Ap, 12-4, Jarvis.

FOR SALE—Pur, from Duff & Son, Ap, 12-4, Jarvis.

CIDER—Bring your, every day. Bert, Jarvis. Phone 10-33.

WANTED—Good al, from G. A. Bowma, Phone 157.

FOR SALE—Pure b, from G. A. Bowma, Phone 157.

CIDER MADE on, Fridays. Will make u

## The DeFo

— THE GR

R-2—Two Tub

R-3—Three T

plays

ive d

frequ

for

R-4—Four Tu

range

R-5—Five Tub

R. F.

Price

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo

Bo