

THE MORNING GUARDIAN.

THURSDAY, AUGUST 24, 1899.

SCIENCE AND AGRICULTURE.

In this essentially farming community it is a matter of surprise and regret that more and better provision has not been made for the instruction of the future tillers of the soil in the scientific principles of agriculture.

Science has established some principles of action, while others may be still in the experimental stage. Science tells us how to conserve moisture in the land for the use of crops, and by an application of this knowledge there is less to be dreaded by a season of drought than formerly.

Botany teaches how to fertilize for different crops. It teaches why for a crop of roots much manure is required, and for plants that mature in the first year an excess of manure is harmful.

Science has taught the value of leguminous crops, such as clovers, peas, beans, etc. Chemistry teaches that these plants contain large quantities of nitrogenous compounds and that they do not get the nitrogen from the soil, but from the air where it is present in super-abundance and free to all.

Science teaches him to dispose of crops to the best advantage. By selling off crops in the raw state the soil is impoverished at a tremendous rate, but by feeding them scientifically to animals, over 80 per cent of the fertility is kept upon the farm, and the crops are sold for a better price than if they had gone to market in the raw state.

The combination of rations is the result of chemical and physiological research, and if farmers were in a position to study what has been ascertained along this line, and act upon the knowledge gained, it would be of incalculable benefit to them and to the country.

Science comes to the aid of the farmer in assisting him to fight insect pests and fungous diseases.

Entomology tells of two kinds of insects. Those that suck their food through a tube and those that eat with their jaws. The first can be smothered by covering them with an oily substance, the latter can be destroyed by active poisons.

Instances could be multiplied ad libitum to show the practical benefit a knowledge of the natural sciences is to a farmer.

How the farmer may be most successfully started along this line is one of the economic problems of the present day. Two aids to those appear to be practicable. One is to provide

for the study of the natural sciences in the schools so that the pupils will have a primary knowledge of these and will be the better able to follow up a more technical knowledge when they come to the actual experience of farming. Another is the employment of a competent teacher of agricultural chemistry in the Prince of Wales College, part of whose duties shall be to address meetings of farmers and instruct them in the best methods that have been ascertained by scientific investigation and actual experiment.

Bombay has a railroad which is used in connection with the sanitation of the town. According to The Engineer, it is over three miles long, and is intended for transporting the road sweepings to a piece of land nearly nine hundred acres in extent. It is considered that this track will fulfill all requirements for about twenty-three years. The sanitary authorities have tried two systems of destructors, but both have been discarded.

It is reported that Herr Montag, of Mannheim, has succeeded in producing coal artificially. At present the newspaper reports are meager, and according to them the new fuel does not develop poisonous gases, creates but little soot, leaves no slate, and but a small amount of ash, the latter resembling wood or cigar ash. The fuel is composed of 92 per cent or 94 per cent of ordinary earth and 6 per cent to 8 per cent of chemicals added. It is said that patents for the invention have been applied for in seventeen countries. If this news proves to be authentic, the developments will be looked for with great interest.

Constipation, Headache, Biliousness, Heartburn, Indigestion, Dizziness, Indicate that your liver is out of order. The best medicine to rouse the liver and cure all these ills, is found in

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HUGHES' COUGH MIXTURE For Coughs, Colds, Bronchitis, Hoarseness, and all Pulmonary Affections. Price 25 cents.

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For the Best English Drugs and Medicines PATRONIZE HUGHES THE PEOPLES DRUGGIST. At the Apothecaries Hall, St. Johns.

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"SALADA" CEYLON TEA. Best and goes the farthest. Sealed lead packets only. All Grocers. 25c, 30c, 40c, 50c, 60c.

WIVES MOTHERS SISTERS BROTHERS ANY MEMBER OF YOUR FAMILY DRINKS, the taste for liquor can be removed permanently by giving SAMARIA Prescription (patented) secretly in food or drink. Failure impossible. Pamphlet, testimonials, particulars free. Correspondence confidential. Write The SAMARIA REMEDY CO., Toronto, Ont.

C.A.A.A. ANNUAL SPORTS

The Annual Sports of the Charlottetown Amateur Athletic Association will be held on their Grounds CHARLOTTETOWN, WEDNESDAY, SEPT. 6th.

- The following is the Programme and Prize List: 1. One Mile Bicycle Race, Novice. 2. Half Mile Bicycle Race (Time Limit). 3. 220 Yards Run. 4. One Mile Bicycle Race (Time Limit). 5. One Mile Bicycle Race, Boys under 15. 6. Sealed Distance Bicycle Race. 7. 440 Yards Run. 8. Two Mile Bicycle Race (Lap). 9. One Half Mile Bicycle Race. 10. 880 Yards Run. 11. Three Mile Bicycle Relay Race. 12. Five Mile Bicycle Team Race.

Entries close Sept. 1st with the Sec'y. Entrance fee 25c. with each entry, which must accompany the entry, otherwise it will not be considered complete.

BAND IN ATTENDANCE TRAIN ARRANGEMENTS.

Table with columns for Train Name, Time, and Fare. Includes routes like Tignish to Pictou, and various local services.

Arrangements are being made with the I. C. N. to issue RETURN TICKETS at one First-class Fare from all Stations in New Brunswick and Nova Scotia to Charlottetown on the 5th September, 1899, to return up to and in the 30th.

Pictou to Charlottetown and Point du Chene to Summerside, Single Fare, good for passage on Tuesday, Sept. 5th, good to return Thursday, Sept. 7th.

Admission 25 cents Sports begin at 1 p.m. sharp. B. C. PROWSE, President. T. H. BEER, Secretary.

He Who Enters Here Leaves Old Boots Behind

And goes away well fitted, in a new pair of our selected boots and shoes, well satisfied as to price, quality and style. Thomas McQuaid, Lower Queen Street.

ACADIA COLLEGE Wolfville, N. S.

The College will RE-OPEN on Wednesday, Oct. 6th. Matriculation Examinations Monday and Tuesday, Oct. 5th and 6th. The COURSE is arranged on sound educational principles, providing at the beginning two years of prescribed work, and at the end two years of work largely elective. The studies offer a wide range of literary and scientific studies. Independence of thought and research is stimulated and encouraged.

ACADIA SEMINARY Wolfville, N. S.

Opens September 6 with a staff of two experienced and accomplished teachers. There are five courses of study leading to graduation—Collegiate, Piano, Vocal, Art and Education. Special attention is also given to the study of Violin, Calisthenics, shorthand and Typewriting. Pupils can enter any year of the course for which they are fitted or may take selected studies. Acadia Seminary gives the MAXIMUM OF ADVANTAGES at the MINIMUM of cost. Full cost of collegiate course including Tuition, board, &c., \$17.00. For cost of extra studies see Calendar, page 37. For information with regard to rooms, etc., address, REV. A. COHOON, Wolfville, or the Principal, J. H. MacDONALD, Principal, Aug 10-15/99

HORTON ACADEMY Wolfville, N. S.

This well-known school opens September 6th, 1899. Its courses of study prepare boys and young men for College, for license to teach, for business and for mechanical pursuits. The ACADEMY HOMES, well furnished, provides at moderate cost, comfortable residences for the students. Several teachers reside in the home, promoting quietude and diligence in study and assisting the boys in their work. The MANUAL TRAINING DEPARTMENT with increased equipment and courses in Carpentry, wood turning, Iron Work and Drawing, offers special inducements to those looking towards engineering or mechanics. The SCHOOL OF HORTICULTURE admits Academy Students to all its advantages (free of charge). Location beautiful and healthful. Teachers of culture and experience. A family school. Board and Laundry \$2.00 per week. Apply for calendar to HORACE L. BRITAIN, B. A. Principal, Aug 10-15/99

Paris Green NEW STOCK.

None of last year's Green on hand.

BINDER TWINE, Canvas 3 ply Roofing.

DODD & ROGERS.

EDGEHILL, Church School for Girls, Windsor, Nova Scotia.

The Bishop of Nova Scotia, Chairman Board of Trustees. Miss Lefroy, of Cheltenham Ladies' College, England, Principal, with Nine Resident, Experienced Governesses. Housekeeper, Maid, a trained Nurse. Preparation for the Universities. Michaelmas Terms begins Sept. 13th 1899. For Calendar and Blank Form of Application for admission, apply to DR. HIND, Secretary, Aug. 2 Tu. Th. Sa. 6w.



The "Albert" Toilet Soap Co's Baby's Own Soap makes youngsters, clean, sweet, and fresh.

It keeps their delicate skins in good order. Made entirely from vegetable fats, it is an emollient as well as a cleanser, and is as useful on a lady's toilet as in the nursery. Faintly but exquisitely aromatic.

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Brain Food

Grape Nuts is a new food for the brain and nerve centres. It is made by special treatment from wheat and barley and is fully cooked and pre-digested. The system will absorb a greater amount of nourishment from one pound of Grape Nuts than from ten pounds of meat, oatmeal or bread. For sale at

BEER & GOFF'S.

EAST QUEEN'S.

The Liberal Association of East Queen's WILL MEET IN THE Liberal Club Rooms, Charlottetown,

Thursday, the 31st of August, Inst,

at the hour of 10 o'clock, a. m. FOR ORGANIZATION PURPOSES.

A full representation from each polling district is specially desired. The Honorable Sir Louis Davies will be present.

By order of Committee. JOHN F. WHEAR, Acting Secretary. Aug 23, 1899.

ACADIA HOTEL

GRAND TRACADIE BEACH Prince Edward Island.

Unsurpassed for health and pleasure. Golf Links in front of Hotel. Finest boating, bathing, fishing. Write for particulars. Opens July 1st

I. C. HALL, Manager

Spring Trade

The time has come when you should look up your wardrobe and see how you are fixed for spring war. In the event of you deciding to invest in a suit or overcoat, etc., act promptly by ordering the same from

J. T. MCKENZIE, Tailor