

ANNOUNCEMENT
ANNUAL COLLECTION FOR
PROTESTANT ORPHANAGE
OPENS
MONDAY, NOVEMBER 6th.

6638-10-24-mwf-61.

Investigation Of
Eel Grass Disease
(A. G. Huntsman in Atlantic Biological Station Bulletin)

The eel grass (*Zostera marina*), which the boatman is a nuisance in shallow water as it interferes with the operation of oars and propellers, proves to be a most useful plant. It has required a season of study to reveal to the public the large part that it plays in relation to man. Thousands of tons of the dried leaves are harvested annually from our Atlantic waters (chiefly in Nova Scotia) to form an important article of commerce used for insulation in refrigerating and other work, and for upholstering purposes. It is also valued by the fisherman or coast farmer as a material for banking houses on the approach of winter and for bedding cattle, as well as for fertilizing the land. The sportsman is also concerned as its roots form the principal food during the winter season for brant and wild geese.

Among the plants of the sea such as the red, brown, and green seaweeds of varied form, the eel grass is a foreigner. They are of simple structure, cling to the rocks with their holdfasts, and breed by means of spores. The eel grass on the contrary is like its relations, the ordinary plants of the land, in being of complex structure, in having roots and rootlets embedded in the bottom mud, and in breeding by means of flowers and seeds. It is the only seed plant living in the fully salt water of our coast.

Attention was first directed to the condition of the eel grass last winter by its effect on the brant and geese, its scarcity bringing them to the shore, as along Queens (Inspector Buchanan) and Shelburne (Inspector Locke) counties in southern Nova Scotia, or perhaps causing the death of some as in Antigonish county in northern Nova Scotia (Inspector Harris). When summer came the failure of the eel grass to grow in any quantity in certain districts awakened alarm in those persons most dependent upon its harvesting and the Atlantic stations of the Biological Board were asked to look into the matter. Investigation at first failed to reveal anything more than extensive death of the old matted eel grass roots embedded in the bottom mud, and sparse, restricted growth of leaves. This condition seems to have been general from Northumberland Strait southwards, but to a less degree or not

and evidence of disease also appeared in many plants both in the Bay of Fundy at St. Andrews and on the outer coast of Nova Scotia at Halifax, where growth had been scanty, indicating injury previous to this year.

It seems now fairly clear that a disease, which was probably in Virginian waters in 1930 and responsible for scarcity of eel grass in the following year spread northward and in the latter part of 1931 affected the eel grass as far as Cape Breton Island and Northumberland Strait, so as to cause great scarcity of the plant during the present year along the northern part of the Atlantic coast. This year it is spreading northward to the north shore of Prince Edward Island and up the east coast of New Brunswick, but apparently has not yet got as far as Chaleur bay nor farther north according to information given by Dr. Lewis. As the disease has been active for two years in the rather cold waters of the Bay of Fundy, there is no reason apparent for its falling fitfully to invade the northern part of the gulf of St. Lawrence, which is as far as the eel grass extends.

The disease can be recognized by more or less of the green color of the leaf turning to brown; but a slimy, brown coating should not be confused with this, for it is not an evidence of disease, being merely a growth of diatoms. The change in color may be so extensive that the whole plant appears brown, but on removal the bases of the leaves next the mud will be found to be green. When the disease is well advanced, the leaves are found more or less matted together and falling to float up in the water. They break readily into short pieces, and the rootstocks, if dug up, will also prove to be brittle. The disease develops in late summer, that is when the water is warm and is most marked in the saltier water. Well up in estuaries the eel grass may be entirely normal. On September 13 at the mouth of the Dunk river near Summerside, P. E. I., living eel grass was found only with difficulty, although the bottom mud contained a dense mat of the dead roots. On the other hand up the river at the highway bridge the flats were green with dense masses of eel grass and no evidence could be found of their either having been injured by disease last year as at the mouth of the river, or being attacked by the disease this year as was found next day to be the case for the eel grass of Bedford river, an arm of Malpeque bay on the north shore of the Island.

Southern Origin
At the south, whence the disease has apparently come, the coastal water is warmer and saltier than here. The last few years have for this region been rather dry and warm, but, considering the range in salinity and temperature which permits of development of the disease, it is not easy to see how the very slight increase in salinity and temperature of our waters can have been of any moment in aiding the spread of the disease. Last summer in particular and again this, our coastal waters have been invaded by tropic fishes and plankton. It happens that the general area from which tropic forms were reported to us last year corresponds with the area in which the eel grass was damaged then by the disease. The unusual circulation of the water, which was responsible for the tropic forms observed, may also have brought the disease to our coast.

We are without knowledge of the exact nature of the disease and of where it has occurred in the past or what its course may have been. There is, therefore, little to go on in attempting any prognosis for the future. Our observations of this summer create the belief that, when the disease disappears it will require several years for the beds to return to their old condition. In no area have we found all the plants destroyed, for in the extreme cases living plants are merely few and small. However, if the mud beds should be washed away, it would be long before they could be replaced. Where the disease is present for the first time this year, as in Malpeque bay, P. E. I., it seems to affect entire beds, the very few plants escaping. On the other hand where the disease was present a year ago, the proportion of plants attacked this year is relatively small, and in some places no evidence was found of any disease this year. This encourages the belief that the disease will shortly pass.

General Waters, former British military attaché in Berlin, was the guest of the ex-Kaiser at Doorn for a few days recently.

The County of London, in which is the City of London, now has 748,000 dwellings, an increase of nearly 30,000 in 10 years.

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Nothing used but the purest of ingredients.

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221 Queen Street

CENTRAL GUARDIAN

This is reserved for news, but advertisements of a news character may be inserted at the rate of 4c per word, strictly payable in advance.

CAVENDISH CHURCH—Services for Sunday, Oct. 30th, as follows: 11 a. m., North Rustico; 7:30 p. m., Stanley Bridge. Visitors cordially invited. W. A. Paterson, minister.

THE FUNERAL of the late Charles D. McLean will be held privately from his late residence at Clyde River on Saturday.

GEORGETOWN CHARGE, United Church. Services for Sunday, Oct. 30 as follows: Surgeon, 11 a. m.; Millown Cross, 2:30 p. m.; Georgetown, 7 p. m.

NEW LONDON GROUP—Presbyterian Church in Canada, services on Sunday, October 30th, will be as follows: 11 a. m., Clifton; 2:30 p. m., Granville; 7:30 p. m., Long River.

PRESBYTERY MEETING—The Presbytery of Prince Edward Island will meet in regular quarterly session at 11 a. m. on Tuesday Nov 1st in Zion Church Hall, Charlottetown.

BROOKFIELD—The services in the Brookfield Congregation on Sunday October 30th will be as follows: Hartsville 2 p. m., S. School 1:15 p. m., Brookfield 3:15 p. m., and Hunter River 7:15 p. m., S. School 6:15 p. m.

CLYDE RIVER—On Sunday October 30th the service in the Presbyterian Church, Clyde River will be at 11 a. m., S. School 10 a. m.

ENJOYED VISIT—Miss Etta Munro of Providence, R. I., spent two weeks vacation in the Maritime Provinces. While in Westville she was at the home of her mother Mrs. Hugh Munro. Accompanied by Mrs. Robert Thompson she crossed on the Hochelaga to Charlottetown and visited the new C. N. R. Hotel and spent the week end with her sister, Mrs. D. K. Ross at Cornwall, P. E. I.—New Glasgow News.

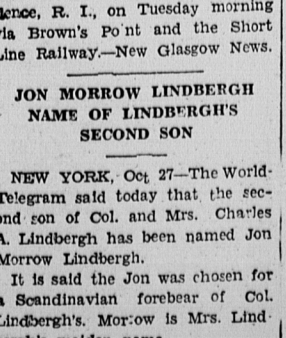
VISITORS IN P. E. ISLAND—Mrs Etta Munro and Mrs. Robert Thompson, of Westville, N. S., went to P. E. Island, on Saturday, Oct. 15th, and spent a few days at Cornwall. They attended church at Cornwall at 3 o'clock and also saw the Pagant at West Covehead at night, and enjoyed the hospitality of the kind people of that place. They returned to Westville on Tuesday accompanied by Rev. D. K. and Mrs. Ross, Wm. C. and Etta Ross. They passed through Amherst and Oxford and saw the beautiful Wentworth Valley in its autumnal beauty, passing through Truro and over Mount Thom. They arrived safely at Westville in the evening. Miss Munro visited Lorne and Hopedwell and left for Providence, R. I., on Tuesday morning via Brown's Point and the Short Line Railway.—New Glasgow News.

JON MORROW LINDBERGH
NAME OF LINDBERGH'S
SECOND SON

NEW YORK, Oct. 27—The World-Telegram said today that the second son of Col. and Mrs. Charles A. Lindbergh has been named Jon Morrow Lindbergh.

It is said the Jon was chosen for a Scandinavian forebear of Col. Lindbergh's. Morrow is Mrs. Lindbergh's maiden name.

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Trinity United Church
FRIDAY

7:00—Choir Rehearsal — Heartz Memorial Hall.
8:00—Young People's Society — Hallow'een Social — Social Hall.

Valley Beet Sugar
Industry Proposed

NEW WESTMINSTER, Oct. 26—The proposed establishment of a beet sugar industry in the Fraser Valley, costing \$750,000, by British capitalists will be laid before a meeting of presidents and secretaries of boards of trade of the Fraser Valley in Abbotsford Saturday afternoon at 2 o'clock. The meeting has been called by the Associated Boards of Trade, and according to W. H. Keary, secretary, about thirty representatives will attend.

According to proposals of the British promoters approximately 5,000 acres in beets would be needed. It is estimated that \$15,000 would be required for the site, \$200,000 for the factory and \$350,000 for equipment. Those behind the scheme seek guaranteed acreage of beets and guarantee of sufficient labor to cultivate and harvest the crop.

At present sugar beets are grown in Delta, Richmond and Sumas on a small scale, the product being shipped across the line for refining at Bellingham.

The proposed plant for the Fraser Valley would produce 12,000 tons of sugar annually.

French Boy Wins
Oratory Contest

WASHINGTON, October 26—Georges Pol Domine, representing France, won the seventh international oratorical contest. Lucille D. Goldsmith, of Los Angeles, the United States entry, placed second and Charles G. P. Smith, of England, third.

The youthful French orator, who spoke with characteristic Latin fire, turned his subject "The Attachment of French Youth to Tradition and Progress" into a criticism of contemporary world conditions.

The other two orators in the international competition were R. Eric Boden, of Dublin, Ireland, and Henri Emile Pfaff, of Holland.

Miss Goldsmith spoke on "The Constitution"—and Smith's subject was "William Ewart Gladstone." In concluding his masterful address, the 19-year-old French scholar said:

"I maintain, that we shall owe the best part of our future to the crisis if it strips the word progress of its halo and restores to it its former significance—the advance toward the universal ideal of justice, peace and happiness.

"And so, in the darkness where men and nations are in commotion, uncertain, anxious and following different paths, we are, despite all, advancing, strong in our youth, toward that joyful moment when there shall appear in the nascent dawn of the new day enriched by the tradition we have preserved and appreciative of our efforts, the future."

EXPORTS OF AGRICULTURAL PRODUCTS FROM CANADA TO THE UNITED STATES

A table is published in the forthcoming issue of the Commercial Intelligence Journal which shows the exports from Canada to the United States of principal commodities such as are produced on Canadian farms or are manufactured directly from such farm products, during the month and three months ended September, 1920, 1929, 1931 and 1932 with the United States tariff rates in force.

QUEEN OF HIKERS MARRIED

Just before Miss Ivy Springett was married in a park near Sydney, N. S. W., she was elected "queen of the hikers" for the day. Ten thousand people then watched the wedding, when she became Mrs. H. H. Hillier. Hikers came for miles to see the double ceremony. Nine special trains carried 6,500, while thousands rode by regular trains or hiked.

Nepal, one of the provinces of India, is now closed to all outsiders, only the British envoy and his staff being permitted to live in the capital.

CERTIFIED SEED
COBBLER POTATOES

We will be buying until Nov. 5th, delivery must be made on or before that date. Call and get what bags you require.

For Dependable Groceries **Cudmore Bros.** Money Saving Values
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PEARL SOAP 3c Per Cake	SUGAR (5 lbs.) 25c	BROOMS Each 24c
SWANS DOWN CAKE FLOUR 29c Package	FLOUR (Pastry) ... 7 lbs. 23c	P. & G. SOAP 10 bars 35c
BULK COCOA 12c lb.	TOMATO SOUP 8c (Aylmers & Heinz)	CRANBERRIES 4 lbs. 25c
JELL-O 4 pkgs. 25c	SUGAR, ICING .. 2 pkgs. 17c	CARROTS 10 lbs. 25c
ROLLED OATS 5 lbs. 18c	FIG BARS 1 lb. 13c	DATES 2 lb. Pkg. 19c
BAKER'S COCOA Half lb. tin 23c	TEA (bulk) 2 lbs. 49c	CORN FLAKES (Sugar Krisp) 3 for 25c
LARD 2 lbs. 27c	MATCHES 3 boxes 25c	CLAMS per tin 10c
MAXWELL HOUSE COFFEE 49c 1 lb. tin	TOILET PAPER .. 5 rolls 16c	BACON 19c
	ONIONS 10 lbs. 19c	
	WALNUTS (Shelled) 1 lb. 39c	
	CASTILE SOAP 1 lb. bar 11c	
	SALMON (pink) 1 lb. tin 12c	
	BEAVER FLOUR 98 lbs. \$2.25	
	Boneless CODFISH 2 lbs. 25c	
	Prices Effective Oct. 24 to 31	
	ELEVENTH ANNIVERSARY SALE	
	BUY NOW AND SAVE	
	It is our sincere conviction that you will never again be able to buy commodities at present day prices, much less will we be able to repeat the prices that we are selling merchandise at during this Sale.	
	Take advantage of our offerings and stock your pantry for your fall and winter requirements.	

Poetry Repairs
His Specialty

NEW YORK, Oct. 26—"I still wonder at my own nerve at hanging out my sign," said Anton Romatka, poetry repairman who is living proof that only the brave are poets and that those who make a living at it are even braver.

Anton has been repairing poetry for 15 years. He approaches the task as an umbrella repairman approaches a leaky umbrella.

"There's no mystery in poetry to one who understands poetry," he said. "It's simply a question of choice of mood, and the proper choice of words."

Romatka's repair shop in Greenwich Village is a small room at the top of a long dark flight of stairs. There are a few book shelves and in them are hundreds of books of verse. Piles of poetry cover the floor. The window sill is stacked with manuscripts. Even Romatka's desk and his spare chair are loaded with verse.

"I think everyone should write poetry," the repairman said. "It gives you zip and pep and allows you to wake up fresh in the morning."

Romatka has clients in all parts of the country. Farm boys in Indiana, school teachers in the south, business men in the middle west, send their sonnets and couplets to him and he polishes them up, and sends them back for six cents a line.

"I'm not getting rich at six cents a line," Romatka said. "But I make a living. It's better than doing something you don't love and getting rich. I'm very fond of poetry."

Hundreds of poets live near Romatka's repair shop. But he finds that the people who call themselves poets are impatient of advice, while the amateurs who write at odd moments between other tasks, appreciate professional aid. He has classes and "working groups" and sojourns where scanning, metre, and rhythm are discussed man to man.

Romatka is compiling a tome on poetry, telling in detail and in many thousands of words, exactly how to write, anything from a sonnet to an Epic. His work will provide words that rhyme with words that most people would think impossible on matching "Pneumonia" for example.

Dried Lizzards Used
By Chinese In Tonic

The fact that dried lizzards and turtles are sought by the Chinese as ingredients for medicine was brought to light recently when government chemists in Washington found some of these amphibians in samples of materials that were submitted by a Chinese company in connection with its request for a permit to use industrial alcohol in manufacture.

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The "gobal," or lizzards, from the Gobi Desert of China, according to The Washington Star, are supposed to have a particularly potent effect in the medicine. The ones received recently were well dried and probably very old. They were trussed up with sticks to keep them in true lizard shape.

A label designed to go on the outside of the lizard-remedy bottle carried as part of its inscription, "Rheumatic remedy for external use. This medicinal preparation to be used for rheumatism, lumbago and pains. Warm and rub well on affected parts."

In small type further down on the label, however, is another significant part of the instructions, reading: "Dose, one ounce before meals; alcohol, 25 per cent by volume."

Whether the government, through its Bureau of Industrial Alcohol, will grant the petitioning Chinese merchant a permit to use industrial alcohol for making up this medicine remains to be determined through due course of investigation to follow. It was explained, however, by Dr. W. V. Linder, head of the technical division of the Bureau of Industrial Alcohol, that many native Chinese remedies are allowed to be manufactured on the ground that they do not furnish to the general public a "potable" or drinkable alcoholic beverage. One of the famous Chinese wines, however, known as Ng Ka Py, is on the taboo list of the government as alcoholic beverage and under law and regulation cannot be either imported or manufactured in this country.

Besides lizzards and turtles, Peter Valer, chemist of the laboratory in charge of medicines, said the Chinese resort to such mysterious ingredients in their medicines as

tiger claws, donkey glands, snake gall and lion's paws. Analysis of many of the things submitted show they contain nothing familiar to the pharmacopei except alcohol.

How a huge snake was found in a half barrel of Chinese wine was recalled as the lore of Chinese medicines was surveyed. The discovery was made in New York, where attendants were stirring the wine through a small opening in the cask. The stick hit something spongy. The barrel was opened, and there coiled up in the bottom, was a huge python—pickled.

Tiger hearts and glands are said to be used extensively in some preparations, while the heart of a wild cat was found once. Among other curiosities are young deer's horns ground hog, goose, sparrows, "three sakes," blackleg fox, chicken claws, "leopard with gold coin," rice birds and snake gall.

Unusual claims are made in the advertisements for some preparations, for instance: "Black-leg fox wine results to be found are increase of wisdom and helping kidney trouble."

Bursong is a food prepared by the native Australians from a butterfly of the genus Danais.

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