

Sea Weeds Most Abundant Along Oregon's Coast

Oregon State College—Anyone who says sea weeds are abundant along the Oregon coast has the backing of science to prove the statement, although the scientist will use the more technical term, marine grass.

Dr. Ethel I. Sanborn, associate professor of botany here, and Dr. Maxwell S. Doty, of Northwestern university, are authority for the statement that 188 determined species of algae are to be found along the Oregon

coast in the vicinity of Coos Bay. Many of the typical California species come north to Oregon, while many of the Puget Sound species extend south to the Coos Bay region or a little beyond, making the area richer in sea flora than the coast either to the north or south.

The first report of scientific studies of these forms of plant life along the Oregon coast has now been published as an Oregon State monograph entitled, "The Marine Algae of Oregon—Cape Arago Region of Oregon." Printing of this monograph by Drs. Sanborn and Doty was started in 1944, but because of the war was not com-

New Wax Found As Alcohol By-product

Recovery of a wax of possible wide commercial use by the Oregon Forest Products Laboratory in research on waste lignin from the Springfield alcohol plant is announced by Dean Paul M. Dunn, director of the laboratory at Oregon State college. The laboratory work that produced the wax was done by Dr. Ervin F. Kurth, professor of wood chemistry on the college and laboratory staff.

Laboratory tests indicate that about 7 1/2 percent of the 60 to 70 tons of lignin produced daily at the plant can be recovered as wax by a simple petroleum solvent extraction process. This

would mean an output of about five tons of wax daily at present level of operations, assuming that all lignin were processed in this way. Such an amount, it is believed, would have an important bearing on the economics of alcohol production from wood waste.

A larger extracting unit has now been installed in the new industrial laboratory to produce the newly-found wax in quantities for commercial testing. The wax has a high melting point and other characteristics that make it promising for numerous commercial uses, says Dr. Kurth.

Whether making alcohol from wood waste under normal price conditions can be continued on a commercial basis depends largely on whether enough by-products of commercial value can be produced to help cover the cost of the process, Dean Dunn points out. About one fourth of wood waste is lignin which is not used in wood alcohol making.

Ever since the start of the Springfield project and the organization of the Forest Products laboratory, continuous research has been conducted toward finding such by-products. Other results previously announced and now in various stages of further development include the recovery of yeast as stock feed from the stillways liquor, recovery of gypsum for use as fertilizer and use of dry ground lignin as an extender for insecticides or as a soil conditioner.

Agricultural phases of the research are carried on in cooperation with the agricultural experiment station, while the en-

pleted until this year. "The collection and study of marine algae has been a major research project at the Institute of Marine Biology at Coos Head," says Dr. E. L. Packard, director of research at that institute. "The coasts of California, Puget Sound and British Columbia had been previously studied, but no study of importance had been made of the Oregon coast until Dr. Sanborn began collecting in 1926."

After the institute was started, Dr. Sanborn and her students made systematic collections. The junior author was one of those earlier students who later collaborated in the study of the collection.

The 66-page monograph will serve as a guidebook for future collectors and will form a basis region, says Dr. Packard. Of the 188 different species cataloged, the largest number belong to the class of red algae.

Communist Rule Stresses Terrorism

It will be interesting to see just how American Communists, Communist-sympathizers, and fellow-travelers go about squaring the present policy of the Soviet Union with the old propaganda to the effect that their particular brand of dictatorship offers the sole hope for bettering the lot of the "common

man." When, some time ago, the Soviet Union refused to join in the Marshall Plan for the rehabilitation of Europe, it divided the world into two opposing camps. It made united effort for putting hungry and destitute peoples on their feet, impossible. It decreed, in effect, that the citizens of the small nations such as Czechoslovakia must divorce themselves from all hope of American assistance on pain of "displeasing" Moscow—and thereby inviting the kind of terrorism that subdued Hungary.

The peoples of these unhappy countries were not, of course, given an opportunity to express their own wishes in the matter. It is only in "degenerate" capitalist nations that the ordinary citizen has a free ballot, free speech and a free press. Only under the obsolete and democratic system can a man work or not work as he pleases, start a business, speak his mind, and go about his affairs without dread of secret police and drum-head courts and concentration camps and slave labor. Only where the laughable institution of free enterprise exists do the people control their government—and choose their officials all the way from town marshal to the head of the nation.

Communism feeds upon despair, starvation, terror. The Soviet high-command has decided that these shall be its gifts to every nation which it can influence and dominate. It is building one of the most brutal systems of slavery in the history of the world. Here is the total state, in all its glory.

"We see peace as necessary to the survival of civilization; the survival and spread of freedom as necessary to peace; a revived prosperity for all nations as necessary to the survival of freedom."—New York Times.

Engineering experiment station is helping with the study of methods of handling the waste liquor so as to minimize its damage to streams.

Holmes Gabbert, Portland business man and lone wheat rancher, was transacting business in Heppner Wednesday.

HEPPNER GAZETTE TIMES

The Heppner Gazette, established March 30, 1883. The Heppner Times, established November 15, 1897. Consolidated Feb. 15, 1912.

Published every Thursday and entered at the Post Office at Heppner, Oregon, as second class matter.

Subscription price, \$2.50 a year; single copies 10c. O. G. CRAWFORD Publisher and Editor

ATTENTION MERCHANTS

Headquarters for Novelty Western Hats, Kerchiefs, etc. for Rodeo & Celebration Dress-Ups

We are the largest distributors in the West for merchandise of this kind.

BE PREPARED FOR THIS YEAR'S RODEO

Catalogue on request WEST COAST NOVELTY CO. 1136-1136A Mission St. San Francisco, Cal.

R. U. AWARE - BOB BLACKWELL

SOME OF THE MOST PRIMITIVE AFRICAN NATIVES HAVE SECRET CURES FOR THE DEADLY BITES OF POISONOUS SNAKES. THAT MODERN MEDICAL SCIENCE HAS NEVER BEEN ABLE TO DISCOVER.



We have a cure for every spotted garment. KEEP YOUR SUMMER WHITES REALLY WHITE... send them to the MORROW COUNTY CLEANERS. No dull, gray shadows remain after we clean your whites... no film of gray to mar their appearance... we take out all the dirt, dust and sweat stains.

Heppner Phone 2632 Oregon Morrow County Cleaners

Select the Heppner Branch of the First National Bank to handle your Grain Loan.

THE HEPPNER BRANCH
FIRST NATIONAL BANK
of Portland

JUST RECEIVED

ROLLED ROOFING:
45 lb. Mica
65 lb. Mica
90 lb. Green Slate

ASPHALT SHINGLES (Red & Green)

INSULATION --FHA Approved

EXTERIOR & INTERIOR HOUSE PAINT

Western Stores

STAR REPORTER

Sunday Matinee starts at 1 p.m. Boxoffice open until 3:30. Evening shows, except Saturday, start at 7:30. Saturday show starts at 7:00. Boxoffice open evenings until 9 o'clock.

Admission Prices both Matinee and Evening: Adults 50c, Grade and High School Students 12 and over 40c, Children 20c, all taxes included. Every child occupying a seat must have a ticket.

Friday-Saturday, Aug. 1-2

Sioux City Sue

California

Wednesday-Thursday, Aug. 6-7

Shocking Miss Pilgrim

START COLLECTING NOW

Begin a Decca Library Which You Will Enjoy

A fine supply is on hand but we will order your favorite if we do not have it.

Recordings by such famous artists as:

Dick Haymes - Carmon Cavallaro - Bing Crosby - Hozie Carmichael - Ink Spots - Andrews Sisters - Fred Waring - Louis Jordan - Lionel Hampton - Hildegarde - Guy Lombardo - Ella Fitzgerald - Mills Bros.

Albums \$1.25 to \$10 Records 53c to \$1.05

Case Furniture Co.

AT PENNEY'S
VALUES SPEAK LOUDER THAN WORDS!

Breezy Dark SHEERS LOOK Expensive & FEEL Expensivel

Only **9.90**

Imagine! Paris-inspired Advance-of-Fall fashions with costly handmade-looking details—at this low price! Blacks, browns, navys with the new longer skirts... double and triple tiers, side-swing drapes. Miscellaneous, women's sizes.

Women's Blouses **2.98**
Finest Fall Styles in Smartly tailored styles with trim Peter Pan or open collars. Soft pastels or white in rayon or cotton, neatly detailed. Long or short sleeves.

GIRL SIZES 3 to 5X & 7 to 14 **1.98**

Men's SPUN RAYON GAMBLER SHIRTS **4.98**
Hard finished gabardine with pleat in back. Fall colors.

PETERSON'S

NEW ELGINS *Exquisitely styled! Toned to the stars!*

THE YEARS will not detract from the smartness of this Elgin De Luxe. The beauty of its clean lines reflects the true American styling.

AN ELGIN DE LUXE will show with pride and trust for accuracy. Has easily read dial, sturdy strap.

YOU'LL BE GLAD you waited for an Elgin. There are not enough yet for everyone but each one, like this, is worth waiting for. See them now.

BIGGER And BETTER SUMMER FOOD SAVINGS

The list of people who are learning the value of Cash Buying of Food Products is growing longer each week. It is our purpose to give the buyer every advantage we can while reserving a fair margin of profit to ourselves. Here are a few—

Food Specials for Friday and Saturday

Hudson House Whole Kern'l Corn 19c	H&D Sliced Elberta Peaches	37c
Pork & Beans (Van Camp) 3 for 40c	Juice Oranges, 3 pounds	25c
Hudson House Str. Beans, No. 2 24c	100 pounds Cane Sugar	\$9.50

EXTRA! EXTRA! Choice MEATS

Meat Specials For Your Sunday Dinner or picnic

We are especially proud of our meat department. Every device for the proper handling of meat was incorporated in the building of our plant. This, coupled with selection of only the choicest products, assures our customers unequalled values. Our main feature this week is

Steve Thompson's Prime Spring Lambs

Mor Lunch Meat—12.3 tin	39c	Pot Roast Beef—pound	44c
Vienna Sausage—2 for	33c	Hamburger—pound	38c

Shop the Cash and Carry Way and Make Your Food Budget Go Lots Farther

Court Street Market