

# CARBONIZED TREE PROVES VOLCANIC ACTION AT CRATER

## Growing Tree On Flank of Mt. Mazama Sealed in Hot Pumice and Ash Before Mountain Top Blown Off

CRATER LAKE NATIONAL PARK. Ore.—(Sp.)—An event significant in the geologic history of Crater lake, a carbonized tree, believed to have been covered by volcanic material as a result of explosive action, was discovered recently along the inner rim of the lake. The discovery is regarded as a climax to long efforts, under the direction of Park Naturalist D. S. Libbey, to locate such material within the immediate area of the rim as concrete evidence that explosion was an important factor in the destruction of Mt. Mazama, the remains of which now serve as a bed for Crater lake.

Altogether covered. The discovery was made by Ranger-Naturalist Albert E. Long, while assigned to research study, and was discovered by Mr. Long and Park Naturalist Libbey. Only a very small portion of the specimen was exposed when first located. The log, as unearthed, was 52 inches in length, 1 1/2 inches in diameter at the top and 1 1/2 inches at the base. It was standing in an almost upright position, indicating the tree was alive at the time it was covered.

The lower section of the tree, including large branching roots, was not carbonized and large cavities resulted from the decomposition of the roots and stump. The tree was completely carbonized from the top for a distance of 44 inches, at the end of which a break occurred with a cavity of 10 1/2 inches resulting from the slipping of the lower section. Below the break, 8 1/2 inches of carbonized log was found, grading into uncarbonized material which progressively became more decomposed. The roots, now decomposed, were originally imbedded in a layer of glacial debris, dipping at an angle of 11 degrees to the west, with layers on top repeating at different degrees.

Important Find. The location of a carbonized log within the existing crater slope, with a stump and roots uncarbonized and partially decomposed, presents evidence of great importance. After careful study, Park Naturalist Libbey has come to the conclusion that erosion of the inner rim slope has shifted the crest of the rim outward and that at the time of entombment, the tree was growing on the radiating slope of old Mazama. Cool pumice and pumice tumbled down the slope above to cover the roots and base of the tree, followed by subsequent covering of hot volcanic ejecta, pumice and ash, settling around the tree so fast that air was excluded and combustion prevented. Carbonization resulted.

The wood of the roots and base of the tree trunk at the present being only partially decomposed, would tend to show that explosive activity of Mt. Mazama was more recent than previously estimated. The presence of glacial deposits over the tree establishes the fact that the entombment was prior to the destruction of the old volcanic cone, since higher elevations of the mountain necessarily existed in order to have a glacier form.

Explosion Proved. The similar conditions of entombment, carbonization of logs and excessive depth of the volcanic debris along the Diamond Lake highway presents evidence of the excessive amount of eruptive material distributed by explosive action of the volcano. It appears reasonable to assume that explosive action was the major force involved in the destruction of the upper portions of the volcanic cone, although it is possible subsidence, slapping and undermining may have contributed an appreciable part in the enlargement of the original crater.

The discovery of the carbonized log within the rim is regarded as an important scientific discovery and will be followed by further intensive research efforts by Park Naturalist Libbey. Specimens of the carbonized material will be placed among the exhibits in the Sinnott Memorial orientation station. It is planned to recover the log in a condition as nearly similar to that in which it was found so positive evidence will remain in the future and thereby maintain a perpetual record of the find.

### FORD DEALERS TO START AD DRIVE

The authorized Ford dealers in California, Nevada, Arizona and southern Oregon will release a new advertising campaign on September 1st, in western newspapers.

The program prepared, is the result of a two-year study of the market for low-priced cars. The many talking points in favor of the Ford V-8 which will be stressed, include, the fact that the 1933 car is the biggest in the low-priced car field by actual measurement; that this car gives from 17 1/2 to 20 miles per gallon of gasoline; that its aluminum head is cool after a hard run; its X-type frame, its general sturdiness and comfort, its ability to do more than 80 in high, and more than 80 in second.

The newspaper schedule will be supplemented by the widely popular radio program, "The Merry Makers." This one-hour radio feature is to be released over the Columbia-Don Lee chain every Sunday night at 9 o'clock, beginning September 3rd. McCann-Erickson, Inc., the largest advertising agency on the Pacific coast, has been appointed by the au-

# Death, Terror and Millions In Property Loss Left In Wake Of East's Worst Storm In Years



Striking with hurricane force the worst storm in years pounded the eastern seaboard killing at least a dozen people on land and sea and inflicting property damage running into many millions of dollars. Above picture taken at Atlantic City, N. J., shows a street near the beach battered to pieces by mountainous seas.

Authorized Ford dealers to prepare and handle the advertising program. The agency plans also to conduct an intensive dealer campaign at the point of sale, incorporating many features of a highly localized nature.

Walker Loses to Rider. RIPLEY, Tenn.—(AP)—William V. Lightfoot walked 2500 miles in a campaign for election as court clerk, but lost to a one-legged opponent who campaigned from an automobile.

### TATTOOED NRA EAGLE GRACES FAIR LIMBS

NEW ORLEANS.—(UP)—The "new deal" is to blame for all of it, say outraged friends, but Professor George Pinell, tattoo artist, is not complaining. When President Roosevelt hoisted

the NRA emblem over the land, he started a boom trade for the professor. Miss May Swilley started the fad, immediately having the blue eagle emblem tattooed on her right leg, just below the knee. Since then Pinell has been busy tattooing NRA emblems on sailors, clerks, stenographers, traveling men and persons representing a dozen other professions.

DANCE—Saturday night at Butte Falls.

# CULINARY CRAFT....

By Estella Dorgan, Director of Home Service, California Oregon Power Co.

### Canning Questions and Answers.

Many questions concerning canning problems are coming to my desk the last while. Canning problems are very real and perhaps we may be able to clear up some of them by a little discussion through questions and answers. Who knows? We may be able to solve the mystery that has been confounding to you.



Estella Dorgan. Interpretation is that "Cold Pack"

### Here's iced tea with real flavor!



Chilling won't wash out the flavor of your iced tea if you use India Tea. There's more to it... more flavor, fragrance and strength. To get India Tea, look for the Map-of-India trademark (above), on packages of tea you buy.

means placing the material directly in the jars and cooking them entirely that way, while in a "Hot Pack" the material is pre-cooked before packing in the jars. In some cases cold packing the cold fruit, raw sugar and cold water are put into the jar. In other cases material is blanched then dipped in cold water before it is placed in the jars to be covered with hot syrup or hot water.

Q. What advantage has the Cold Pack over the Hot Pack?  
A. The Hot Pack method allows some of the flavor and food values to be boiled away in the cooking process.

Q. Does sugar tend to shrink fruit?  
A. Yes. Its use is favored as a preservative and most people prefer the flavor of the cooked in sugar.

Q. Why do peaches sometimes discolor in the top of the jar?  
A. Probably they have not been immersed in water as soon as they were peeled or to high heat has been used in processing. (Of course, they should not be over-crowded in the jar or allowed to scorch against the top.)

Q. Why do fruits and tomatoes sometimes come to the top of the jar?  
A. The Simple

Q. Overripe material; careless packing; over-cooking.  
Q. What causes liquid to boil out of jar during process?  
A. Jars are too full or too high pressure, or in pressure cooker too sudden lowering of temperature. (Cooker should not be opened or pet cock released until indicator goes back to zero.)  
Q. If liquid is boiled out will food keep?  
A. Yes, if it would keep with the liquid.  
Q. Should very ripe foodstuff be processed less time than less ripe material?  
A. No. If anything, it should be cooked longer since it is more likely to have started fermentation.  
Q. Should jars be turned upside down to test for leakage?  
A. No.  
Q. How should jars be placed in the oven?  
A. So that they are in the center of the oven and not touching each other or the side of the pan. (If a pan is used.)  
Q. How do you figure time of processing?  
A. Follow the instructions in your recipe or the method suggested by

your instruction book. Usually, in an oven count, when material is placed in oven; in a boiler when water begins to boil, and in the pressure cooker when pressure reaches amount required in recipe.  
Q. How full should the jars be in Cold Pack method?  
A. To one-half inch if using water or 1 1/2 inches from top if using syrup.  
Q. Does it injure vegetables to overcook them?  
A. UNDER-cooking is dangerous. Overcooking usually changes appearance slightly and may make the material rather soft, but will not ruin it.

A few REAL BARGAINS IN PIANOS at present low prices which can not be guaranteed after September first.

BALDWIN PIANO SHOPPE  
26 So. Grape. Lilla M. Purucker.  
**GREEN PINE SLABS \$1.88**  
Per Load in Two Load Lots  
MEDFORD FUEL CO.  
1122 N. Cent. Tel. 631

# GILLETTE ANNOUNCES SENSATIONAL PRICE REDUCTIONS EFFECTIVE NOW!

Reduced to  
**5 for 25c**  
**10 for 49c**

THIS drastic price reduction enables every man to enjoy the comfort and satisfaction of shaving with the finest razor blades that can be produced. We positively guarantee quality will be maintained at the highest level. You will find the old price mark of 50c on the package of five blades and \$1.00 on the package of ten blades now at your dealer's—pending the printing of new packages. This announcement is your dealer's authority to sell you Gillette, Probak and Valet Auto Strop blades at the amazing low prices listed above.

# GILLETTE SAFETY RAZOR CO.

BOSTON, MASSACHUSETTS

# PIGGLY WIGGLY

HOME OWNED Phone 9 Free Delivery

HELP YOURSELF TO SAVINGS at Piggly Wiggly every day. We have a complete stock of canning needs.

M. J. B. Coffee, 4-lb tin 99c, 3-lb. tin 83c	Certo Bottle 23c	Balco Malt Can 49c	Pancake Flour SPERRY'S Large pkg. - 23c
Alladin Coffee, 2-lb. tin 49c, 1-lb. tin 25c	Pen-Jel 2 pkgs. 27c	Cigarettes Camels, pkg. 10c Carton 99c	Pabst Cheese 1/2-lb. pkg., all varieties 2 pkgs. 29c
Rycrisp, 12-oz. pkg. . . . . 25c	French's Mustard, 6-oz, jar . . . . 10c	Vinegar, Jones' pure cider, gal . . . . 23c	Bosco. Ask us. A new drink. 20-oz. bottle 35c
	Durkee's Mayonnaise, pint jar . . 24c	Laoga Ripe Olives, 9-oz. can . . . 2 for 25c	Cliquot Club Ginger Ale 2 pint bottles 29c
	Camay Toilet Soap, 3 for . . . . 17c	Tree Tea, green, 1/2-lb. 28c, black, 1/2 lb. . . . 35c	El Campa Tuna Flakes 1/2 size 14C
	Welch's Grape Juice, pt. bottle . . 19c	Wax Paper, 40-foot roll . . . . . 9c	
		Peppers, large stuffing size, each . . 1c	
		Watermelons, local, lb. . . . . 1 1/2c	

# ECONOMY MEAT MARKET

206 East Main Free Delivery

This Market Will Be Closed Monday - Labor Day - Buy Your Meat Supply

## SATURDAY

"We sell nothing but quality meats"

Pot Roast, steer beef, lb. . . . . 10c
Short Ribs, steer beef, lb. . . . . 8c
Pure Lard, 3 lbs. . . . . 25c
Picnics, sugar cured, lb. . . . . 11c
Rhode Island Red Hens & Fryers, Nice Rabbits, Fresh Fish