

BREAKING OF ICE IMPERILS NOBIL

Scientist Explains Hardships That Italia Crew Faced

By John L. Cooley (Associated Press Science Editor) NEW YORK (AP)—When the crew of the dirigible Italia drove a hard bargain with nature, and landed on the Arctic pack ice they found themselves on inhospitable islands, drifting slowly at the whim of wind and tide.

Spring covers a vast section of the Arctic sea with moving fields of ice which have been broken from the main mass of the polar pack by the compelling force of rising temperatures. These fields, in turn, are made up of ice cakes, or floes, of varying size, and it was upon ice of this character that General Nobile and his comrades began their dreary wait for rescue. Sometimes the floes are packed so tightly together that a man can travel across them but he must be watchful for the patches of open water, or leads, which may open up with little or no warning. Many polar adventurers have made their way safely across so hazardous a pathway, and such a journey was attempted by some of the Italia's men.

The movement of the Arctic ice pack on its perennial pilgrimage across the northern sea has long interested students of the polar regions. The most recent scientific report on this subject is that of N. A. Transehe of technical staff of the American Geographical society of New York, whose observations are included in "Problems of Polar Research," a publication of the society.

Mr. Transehe classifies the frigid blanket of the Arctic ocean into three groups: fast-ice, pack ice and the Arctic pack. The latter is the great mass of old and solid ice, occupying about 70 per cent of the Arctic sea area and drifting north or less in a definite direction. Fast-ice if horizontally immobile young ice attached to the shore, while pack ice, lying between the other two groups, consists of movable remnants of broken fast-ice and of ice newly formed among these fragments.

In summer, Mr. Transehe points out, all movable floating ice between the coast and the Arctic pack is pack ice.

"The largest areas of the pack ice," he says, "are called ice fields. They are of such extent that their limits cannot be seen from a ship's masthead. They in turn are broken into ice floes—areas that range

Cal's Cousin Is Democrat Aid



NEA New York Bureau Park H. Pollard of Proctorville, Vt., a cousin of President Coolidge, is chairman of the Democratic state committee and will lead the delegation from Vermont to the Houston convention to give its eight votes to Al Smith.

in size from about one-third of a nautical mile in diameter to the dimensions of an ice field. The further breaking up of floes forms glaucous, areas ranging in size from a cake about two or three feet in diameter to a floe itself.

"In the pack ice only under conditions of calm water and low temperature of air does the ice finally get so strong that it solidly ceases to move. The separate pieces into more extensive and stable areas. Up to May the ice increases in thickness until it attains slightly more than six feet on the average. These areas, however, in their turn undergo breaking up and heaping up throughout the winter and spring, until the breaking up of the sea in summer, whereupon the winter pack ice receives more liberty of motion and consequently is subjected to more frequent and strong shocks and pressure, a circumstance which, together with the process of melting, breaks it into smaller constituents. These partly are destroyed and disappear entirely, forming the larger areas of open water, and partly are left till the

Malta Fever Case Exists In Oregon

SALEM, Ore., June 21 (AP)—Dr. P. L. Newmeyer of the state tuberculosis hospital is ill with what is believed to be Malta fever, the first case of the disease ever reported in Oregon. Scattered cases have been reported in other parts of the United States, particularly the southern border. It was said here and a year ago there was one case in the state of Washington.

The ailment originated in the Isle of Malta, physicians said and come from milk. It is not highly dangerous and is believed not to be contagious but it is of long duration.

Tulare Business District In Ruins

TULARE, Cal., June 21 (AP)—For the second time within a year the business district of Tipton, 11 miles south of here, has been destroyed by fire. An early morning fire razed eight buildings and only the telephone building and a small restaurant were left standing. The loss was estimated at more than \$100,000.

Gun Is Discharged, Lone Man Killed

PENDLETON, Ore., June 21 (AP)—Arch Cochran, 27, living north of here, was fatally injured yesterday when a gun accidentally discharged, the bullet entering his mouth and passing completely through his head. He is survived by his parents, Mr. and Mrs. S. H. Cochran, a young son and two sisters.

GLAB INQUEST HELD

LOS ANGELES, June 21 (AP)—A verdict that John J. Glab was killed by a person or persons unknown to them was returned by a coroner's jury at an inquest held at Van Nuys, near here, over the body of the wealthy former Chicago drugist, Mrs. Hazel Glab, held on suspicion of murder charges was the principal witness. Mrs. Glab repeated her story she told police relating of the shooting of Glab.

WARSAW (AP)—Poland has taken a sudden flare for linoleum.

The 1927 imports amounted to 535 metric tons, as compared to only 234 the previous year. There is practically no domestic production.

Four Billions Lost Each Year To Plant Diseases and Insects

WASHINGTON (AP)—Destruction from one-tenth to one-fifth of all crops, insects cause agriculture in the United States an annual loss of more than \$2,000,000,000, and plant diseases are responsible for losses at least comparable.

C. C. McDonnell, federal director of insecticide, fungicide, and caustic control, by which estimates the total damage approximately four billion dollars, figures the loss to virtually nullify the labor of one million men. No satisfactory control methods yet have been discovered for some of the most destructive insect pests or for some fungus diseases. However, McDonnell says, the use of insecticides, fungicides and caustic poisons has increased until the value of manufactured products subject to government control averaged close to \$150,000,000 a year.

The fight against insects and fungi, he says, grows more and more important as the population increases and a larger food supply becomes necessary. As a general rule, the more closely grouped are the hosts of a parasite, the more vulnerable they are to attack. Also, improved transportation facilities tend to spread plants infested with insects or diseases from one region to another, giving a parasite of one plant a chance to become a parasite of another.

Among some of the outstanding sources of loss to the farmer, McDonnell points to the cattle grub, whose damage to the cattle industry is placed at \$100,000,000 annually. Various smuts take a yearly toll of more than 100,000,000 bushels of grain, and losses due to rusts are even greater. Apple scab,

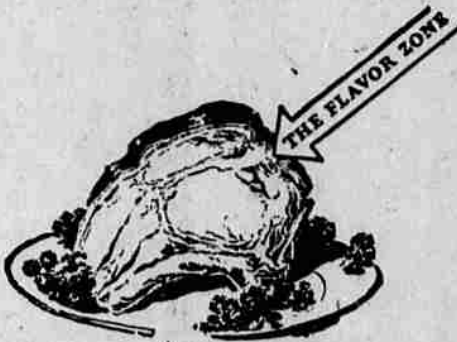
caused a reduction of 22,000,000 bushels in the 1925 yield, and in 1918 anthracnose and stem-end rot of watermelons caused a loss of \$1,250,000 in four states. The country's annual production of commercial fruit is valued at \$700,000,000, practically all of which must be protected by fungicides.

EGYPTIANS WANT CLOTH ALEXANDRIA (AP)—The demand for American cotton cloth showed a striking increase in Egypt in the first four months of this year. Imports were 1,281,672 square yards—an increase of 436 per cent over the corresponding period of the previous year.

\$100,000 Taken In Midnight Holdup

TORONTO, Ont., June 21 (AP)—Six armed men, who, in a daring midnight holdup escaped with registered mail valued as high as \$100,000 from an express car of the Canadian National railways at the Union station here were being sought throughout Western Ontario today.

Entrance to the car was gained on the pretense that the men wanted to sell a large sedan automobile which they had backed up to the car.



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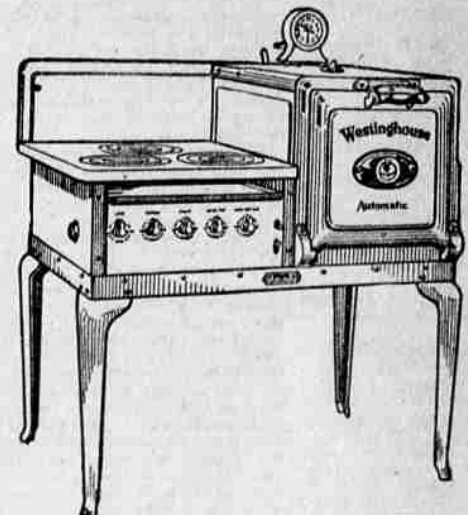
This Special Offer Ends June 30, 1928

Beth Bailey McLean

who is conducting The Observer Cooking School and who will conduct her final class tomorrow, has used a

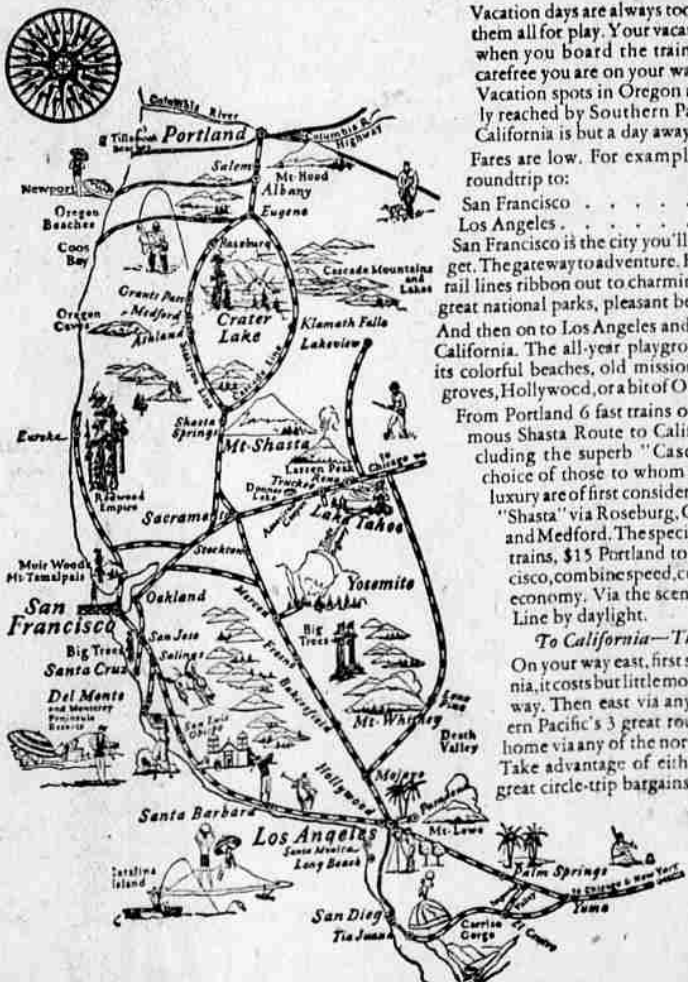
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