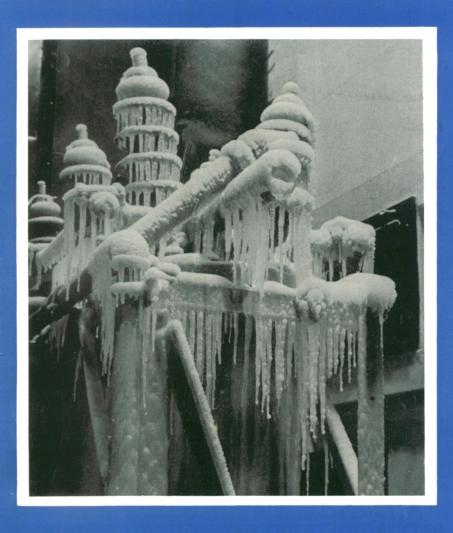
SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE.





September 6, 1941



Synthetic Weather

See Page 151

A SCIENCE SERVICE PUBLICATION

Do You Know?

Cactus fiber is now used in padding upholstery of some motor cars.

Highest of high hats are feathered ceremonial masks worn by men in New Guinea—14 to 19 feet high.

To construct Howard Field, the Army's newest airfield in Panama, 10,000 acres of jungle have been cleared.

The extent and effect of Chicago's lake breezes will be investigated at the University of Chicago's Institute of Meteorology.

Very heavy rains in the Southwest last winter supplied cactus plants with enough moisture to last through three years of drought.

A new government plant to produce maps for national defense use from air photographs is being established in Virginia, near Washington.

A Canadian stationmaster has found good use for rice thrown at weddingshe sweeps it up, sorts out the confetti and feeds the rice to birds.

The United States plans to stock up on castor bean seed adapted to growing in this country, in case industries require more of the drying castor oil.

Over one-eighth of the fuel oil used in heating a home can be saved by properly adjusting the burner with an instrument called a flue gas analyzer, says the Department of Agriculture.

QUESTIONS DISCUSSED IN THIS ISSUE

Most articles which appear in SCIENCE NEWS LETTER are based on communications to Science Service, or on papers before meetings. Where published sources are used they are referred to in the article.

Who discovered the new comet? p. 152.

BIOLOGY-PHYSICS

What new instrument kills bacteria and bacteriophage? p. 156.

From what shrub can the Germans get gutta-percha? p. 149.

For what uses is the new plastic made from cottonseed hulls suitable? p. 158.

ENTOMOLOGY

How can you build a simple trap for silverfish? p. 158.

What sort of screen aids in detecting forest fires? p. 153.

GENERAL SCIENCE

What are scientists doing to aid defense? p. 154.

INVENTION

What can you use in place of snow for summer skiing? p. 150.

MEDICINE

Why should blood not be kept too long in blood banks? p. 148.

To what is pitchers' "lame wing" due? p. 157.

NUTRITION

What new fashion in foods has been set

ORNITHOLOGY

How can pheasants be induced to lay eggs

PSYCHIATRY

What sort of illness affects patients in half the military hospital beds? p. 148.

Why should you be cautious apout submitting to the operation said to "cut worry from the brain"? p. 157.

PSYCHOLOGY

At what age is a philosopher to have his deepest insight? p. 147.

PUBLIC HEALTH

What plans are being made for a campaign against plague? p. 149.

Where is infantile paralysis rapidly increasing? p. 151.

RESOURCES

From what source is magnesium now obtained? p. 150.

How can the risks of earthquakes be lessened? p. 156.

Why are Arctic reindeer healthier than domestic cattle? p. 148.

ZOOLOGY-ARCHAEOLOGY

What sort of meat did Iraq's earliest inhabitants like? p. 156.

Russia's river transportation is handicapped by the fact that so many waterways run north-south, whereas heaviest traffic is east-west.

"Early Norse and medieval vessels," says the Franklin Institute, "had one steering oar on the right side of the boat, and this came to be known as the steering side, steering board, and later starboard."

Pennsylvania State College is using a chemistry laboratory on wheels to travel to centers in the state where the College is training high school graduates for technical defense jobs.

To increase visibility of dark cellar steps, paint experts suggest a border of white paint around the edge of each step, and a solid white coat for the last one.

SCIENCE NEWS LETTER

SEPTEMBER 6, 1941

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 1719 N St. N. W., Washington, D. C. Edited Inc., 1719 N St. N. V by WATSON DAVIS.

Subscriptions—\$5.00 a year; two years, \$7.00; 15 cents a copy. Ten or more copies to same address, 5 cents a copy. Back numbers more than six months old, 25 cents.

In requesting change of address, please give your old address as well as the new one, at least two weeks before change is to become

Copyright, 1941, by Science Service, Inc. Republication of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, magazines and other publications are invited to avail themselves of the numerous syndicate services issued by Science Service.

Cable address: Scienserve, Washington. Entered as second class matter at the postoffice at Washington, D. C., under the Act of March 3, 1879. Established in mimeographed form March 18, 1922. Title registered as trademark, U. S. and Canadian Patent Offices. Indexed in Readers' Guide to Periodical Literature, Abridged Guide, and in the Engineering Index.

Members of the American Association for the Advancement of Science have privilege of subscribing to SCIENCE NEWS LETTER, at \$3 a year.

The New York Museum of Science and Industry has elected SCIENCE NEWS LETTER as its official publication to be received by its mem-

Advertising rates on application. Member Audit Bureau of Circulation. SCIENCE SERVICE is the Institution for the Popularization of Science organized 1921 as a non-profit corporation.

Board of Trustees—Nominated by the American Association for the Advancement of Science: Henry B. Ward, University of Illinois; Edwin G. Conkin, American Philosophical Society; J. McKeen Cattell, Editor, Science. Nominated by the National Academy of Sciences: R. A. Millikan, California Institute of Technology; Harlow

Shapley, Harvard College Observatory; William H. Howell, Johns Hopkins University. Nominated by the National Research Council: Ross G. Harrison, Yale University; C. G. Abbot, Secretary, Smithsonian Institution; Harrison E. Howe, Editor, Industrial and Engineering Chemistry. Nominated by the Journalistic Profession: O. W. Riegel, Washington and Lee School of Journalism; A. H. Kirchhofer, Buffalo Evening News; Neil H. Swanson, Baltimore Evening Sun. Nominated by the E. W. Scripps Estate: Frank R. Ford, Evansville Press; Warren S. Thompson, Miami University, Oxford, Ohio; Harry L. Smithton, Cincinnati, Ohio.

Officers—Honorary President: William E. Rit-

Officers—Honorary President: William E. Ritter. President: Edwin G. Conklin. Vice-President and Chairman of Executve Committee: Harlow Shapley. Treasurer: O. W. Riegel. Secretary: Shapley. Trea Watson Davis.

Watson Davis.

Staff—Director: Watson Davis. Writers: Frank
Thone, Emily C. Davis, Jane Stafford, Marjorie
Van de Water, Morton Mott-Smith. Photography: Fremont Davis. Librarian: Minna Gill.
Business Manager: Alvin C. Stewart. Sales
and Advertising: Hallie Jenkins, Austin Winant. Correspondents in principal cities and centops of research. ters of research.