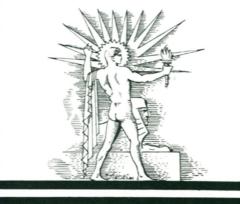
SCIENCE NEWS LETTER



THE WEEKLY SUMMARY OF CURRENT SCIENCE .





September 17, 1938



Gathered to Its Ancestors

See Page 190

A SCIENCE SERVICE PUBLICATION

Do You Know?

Romans made cement by mixing volcanic ash with lime.

In 1895 the total number of automobiles registered in the United States was

Fresh vegetables retain their vitamins and their sugar better if kept in a cold place.

The Soviet Union's 12,000,000-volume library in Moscow is called the world's largest.

Radio sets are now being especially made for use in hot and rainy countries of the tropics.

More than half the desert lands of Arizona are covered with creosote bush and salt bush.

When the Pilgrims landed in America they found Indians using crude oil as a medicine.

Shooting deer with bow and arrow will be permitted in southern Wisconsin for one month this fall.

Lick Observatory in California is credited, among its achievements, with discovery of 4,000 visible double stars and 36 comets.

Mica has long seemed to be a mineral without a substitute, but now something just as good can apparently be made cheaply by centrifuging bentonite.

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.

AGRICULTURE

What new plan is being followed by the U. S. Department of Agriculture Yearbooks? p. 190.

ARCHAEOLOGY

What do you think ought to be kept for 5,000 years? p. 179.

BIOCHEMISTRY

Who discovered vitamin D₃? p. 184. How are vitamins affected by food preservation methods? p. 185.

BOTANY

How much pollen is found in airplanes?

p. 184.

Why isn't teosinte the ancestor of corn?

CHEMISTRY

Who invented the CO-detecting device? p. 183.

Under what handicaps would Germany make war? p. 189.

ECONOMICS

Are the "self-contained" nations self-contained? p. 180.

ENGINEERING

Why shake a building? p. 180. Where are rubber bearings used? p. 188.

FORESTRY

What recognition is proposed for heroism during forest fires? p. 184.

GENERAL SCIENCE

How much would it cost to protect Londoners against high explosives? p. 181.

GEOLOGY

When do glaciers shrink? p. 184. How are geyser basins floored? p. 185.

MEDICINE

How many feet of blood vessels in a pound of fat? p. 189.

METALLURGY

What nation has most molybdenum? p. 186.

PHYSIOLOGY

How many amino acids are necessary for life? p. 185.

PSYCHOLOGY

What are the best war-checking slogans? p. 182.

How do convicts react to ink blots? p. 184. How many 90-year-olds go to movies? p. 191.

SURGERY

What can surgeons do for hideousness? p. 185.

A number of rivers that reach London become lost, being hidden in tunnels or carried along far underground.

Coins for small change in Italy are to be made of a new alloy called acmonital, presumably containing very little nickel.

A British bird fancier who advises against giving cake and other sweets to cage birds points out: "You don't give your children birdseed for a treat.'

Feather-leaved nipa palms of the Eastern tropics grow in swamp lands which, according to Dr. B. E. Dahlgren of Field Museum, probably constitute the world's largest potential source of cheap alcohol.

An American physician, returned from visiting European hospitals, finds that local anesthesia is preferred to the general anesthesia produced by inhaling ether or other gases in these countries except England.

SCIENCE NEWS LETTER

Vol. 34 **SEPTEMBER 17, 1938** No. 12

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 2101 Constitution Avenue, Washington, D. C., Edited 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.

Members of the American Association for the Advancement of Science have privilege of subscribing to SCIENCE NEWS LETTER at the reduced price of \$3 per year. Applications for this privilege should be accompanied by privilege card obtained from the Permanent Secretary, A.A.A.S., Smithsonian Institution Building, Washington, D. C.

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 effective.

Copyright, 1938 by Science Service, Inc. Republication of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, maga-

zines and other publications are invited to avail themselves of the numerous syndicate services issued by Science Service.

Cable address: Scienservc, Washington.

Entered as second class matter at the post-office at Washington, D. C., under the act of March 3, 1879. Established in mimeographed form March 18, 1922. Title registered as trade-mark, U. S. and Canadian Patent Offices. In-dexed in Readers' Guide to Periodical Literature and in the Engineering Ludge. and in the Engineering Index.

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, with trustees nominated by the National Academy of Sciences, the National Research Council, the American Association for the Advancement of Science, the E. W. Sewiner, Fester, and the inventigation profession. Scripps Estate and the journalistic profession.

Board of Trustees—Honorary President: William E. Ritter, University of California, Representing the American Association for the Advancement of Science, J. McKeen Cattell, Editor, Science, Garrison, N. Y.; Henry B. Ward, University of Illinois, Urbana, Ill.; Edwin G. Conkin, President, American Philosophical Society, Philadelphia, Pa. Representing the National

Academy of Sciences, W. H. Howell, Vice-President and Chairman of Executive Committee, Johns Hopkins University, Baltimore, Md.; R. A. Millikan, Director, Norman Bridge Laboratory of Physics, California Institute of Technology, Pasadena, Calif.; Harlow Shapley, Director, Harvard College Observatory, Cambridge, Mass. Representing National Research Council, C. G. Abbot, Secretary, Smithsonian Institution, Washington, D. C.; Harrison E. Howe, Editor of Industrial and Engineering Chemistry, Washington, D. C.; Ross G. Harrison, Director, Osborn Zoological Laboratory, Yale University, New Haven, Conn. Representing Journalistic Profession, John H. Finley, Editor, New York Times; J. Edwin Murphy, Managing Editor, Baltimore Evening Sun, Baltimore, Md.; O. W. Riegel, Director, Lee School of Journalism, Washington and Lee University, Lexington, Va. Representing E. W. Scripps Estate, Harry L. Smithton, Treasurer, Cincinnati, Ohio; Warren S. Thompson, Miami University, Oxford, Ohio.

Staff—Director, Watson Davis; Writers, Frank
Thone, Emily C. Davis, Jane Stafford, Marjorie Van de Water, Robert Potter, Leonard
H. Engel; Correspondents in principal cities and
centers of research. Photography: Fremont
Davis; Librarian: Minna Gill; Sales and Advertising: Hallie Jenkins, Austin Winant, Howard Bandy. ard Bandy.