

A Science News reporter has two points of view.

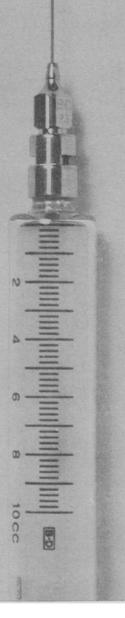
Science News reporters are both scientific specialists . . . and experienced, exacting journalists.

From coast to coast and around the world they seek out up-to-the-minute, hard-fact news of current scientific happenings . . . and send it back to our Washington-based staff for expert editing. Our perceptive professionals contribute realistic evaluations and interpretations of occurrences in virtually every scientific and technical field . . . in-depth stories that provide the perspective . . . features and columns that emphasize what's new and significant in research, development, exploration and discovery. In addition, they supply us with pertinent photographs, diagrams, drawings, maps and other illustrative material.

You enjoy their two points of view.

Why not send a gift subscription to <u>somebody else</u> who will enjoy Science News as much as you do?

Simply fill out the coupon below and mail it to us. We'll take care of the rest.



science news®

OF THE WEEK

589	Tax incentives for polluters
590	The Challenger's eighth leg Foundations win one, lose one
591	Detergent makers defend phosphates
592	Relief for black lung victims
593	CERN's accelerator teetering again
594	Newsbriefs: Visible comet; European flu
595	Medical Sciences: Cystic fibrosis and

ising blood substitute

Chemistry: Barrier to ion rotation; Analyzing water pollution; Sllicon monoxide composition; New dental fillings; Nonpolluting copper smelter; Uses for radioactive gases 596

Medical Sciences: Cystic fibrosis and diabetes; Reserpine treats Raynaud's phenomenon; Kidney autograft; Defanging methotrexate; Prom-

Physical Sciences: Objections to cosmic ray quarks; Pulsar radiation 597 energy; High-energy cosmic rays; Interstellar plasma; Charge distri-

598 Earth Sciences: View of earth's mantle; Geyser's action analyzed; Abrupt changes in ocean temperature; Infrared useful in geology; Nuclear seismic effects



599 Meteorology: Irrigation and increased rainfall 601 Astronomy: Total eclipse of sun

SEMIANNUAL INDEX

603 July-Dec. 1969, pp. 1-608

A Science Service Publication Vol. 96/December 27, 1969/No. 26 Science News Letter ©

The remarkable expansion of irrigation on the Great Plains in the last few decades has been accompanied by increased rainfall. The two facts may be related. p.599 (photo: ESSA)

Watson Davis, 1896-1967 Publisher: E. G. Sherburne Jr.

Editor: Warren Kornberg

Managing Editor: Carl Behrens

DEPARTMENTS

Aerospace: Jonathan Eberhart Behavioral Sciences: Lawrence Massett Chemistry and Engineering: Edward Gross

Earth Sciences: Kendrick Frazier

Ecology: John Potter

Life Sciences: Barbara J. Culliton

Medicine: Jeanne Bockel Physics and Astronomy: Dietrick E. Thomsen Copy Editor: Faye Marley Illustrations: Robert Trotter Production: Marilyn Binn

Production Assistant: Lisa Winters

Books: Margit Friedrich Assistant to the Editor: Nadine Clement

Editorial Assistant: Esther Gilgoff

Advertising: Scherago Associates, Inc.

Circulation: Marcia Nelson

588 Letters to the Editor

> Films of the Week Books of the Week

SCIENCE SERVICE

Institution for the Popularization of Science founded 1921; a non-profit corporation

Board of Trustees-Nominated by the American Association for the Advancement of Science: Athelstan F. Spilhaus, West Palm Beach, Fla.; Wallace R. Brode (Treasurer), American Chemical Society, Washington, D. C.; Bowen C. Dees, University of Arizona. Nominated by the National Academy of Sciences: Henry Allen Moe, The Clark Foundation; Harlow Shapley, Cambridge, Mass.; Allen V. Astin, Bethesda, Md. Nominated by the National Research Council: Glenn T. Seaborg (President), U.S. Atomic Energy Commission; Leonard Carmichael, National Geographic Society; John R. Whinnery, University of California, Berkeley. Nominated by the Journalistic Profession: O. W. Riegel (Secretary), Washington and Lee University; Gordon B. Fister, Call-Chronicle Newspapers; Peter Clark, Evening News Association, Detroit. Nominated by the Edward W. Scripps Trust; John Troan, Pittsburgh Press; Ludwell Denny, Monterey, Calif.; Edward W. Scripps II (Vice President), Edward W. Scripps Trust.

Director: E. G. Sherburne Jr.; Assistant Director: Dorothy Schriver; Staff: Youth Division, Howard Weisbrod; Things of Science, Ruby Yoshioka.

587 december 27, 1969