Editorial
Opportunity Knocks

Articles
General Atmospheric Circulation of the Tropics: H. Riehl
The meridional cell is a useful model, but many new hypotheses await testing by adequate observations.

Linear Programming: W. A. Spivey
It is one of several mathematical approaches to problems of optimal choice under constraint.

News and Comment
The fallout booklet... Forgetting the test ban... Birth control: U.N. debate postponed... Educational TV: Los Angeles next?

Book Reviews
Culture and Social Character, reviewed by R. Bain; other reviews

Reports
Effects of Nuclear Testing on Desert Vegetation: L. M. Shields and P. V. Wells
Three years later, plants of pioneer character are invading denuded areas of the Nevada test site.

Method for Sensory Scaling with Animals: R. J. Herrnstein and P. van Sommers

Magnitude Estimation of the Brightness of Brief Foveal Stimuli: D. H. Raab

Temperature Change: The Basic Variable in the Early Handling Phenomenon?
T. Schaefer, Jr., F. S. Weingarten, J. C. Towne

Prenatal Influence on Behavior of Offspring of Crowded Mice: K. Keeley

Repression of Acid Phosphatase Synthesis in Euglena gracilis: C. A. Price

Menstrual Irregularities in Temporal Lobectomized Rhesus Monkeys (Macaca mulatta): J. A. Wada and L. B. Erikson

Departments
Letters from J. P. Filley and W. Bascom; R. Cox; S. J. Malsky and C. G. Amato

New Products

History of Sciences in India; Forthcoming Events

Cover
Yucca Flat, Nevada test site, from the mesa in the northwest corner. The pinyon pine tree in the foreground stands on the lip of a crater formed by the venting of a partially contained underground shot (Blanca, October 1958) entombed in the mesa slope. The pinyon was one of the three plant species killed by apparent disruption of the root systems, while other species survived. See page 38.
Editor's Summary

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