Editorial
How Much Research for a Dollar? .................................................. 517

Articles
Protecting Rainbow Bridge: A. M. Woodbury .................................... 519
A study of dangers to Rainbow Bridge from water of Glen Canyon Reservoir brings surprising answers.

Direct Metabolic Interactions between Animal Cells: H. Herrmann. .................. 529
Their role in tissue function and development is reconsidered.

Franklin S. Harris, Agronomist, Educational Administrator: W. Thorne ............ 533

Science in the News
Use of Surplus Food Funds for Science and Education; Treaty Reducing Tariffs on Books, Art, and Scientific Instruments; Fate of Congo Parks ................................................................. 534

Book Reviews
C. Wolf, Jr.'s, Foreign Aid: Theory and Practice in Southern Asia, reviewed by H. G. Aubrey; other reviews ................................................................. 541

Reports
Water Permeability of Bacterial Spores and the Concept of a Contractile Cortex: J. C. Lewis, N. S. Snell, H. K. Burr ................................................................. 544

Transmissible Agent Associated with 26 Types of Experimental Mouse Neoplasms: V. Riley et al. ................................................................. 545

Effect of Pyramidal Tract Activity on Dorsal Column Nuclei: S. J. Jabbur and A. L. Towe ................................................................. 547

Hormonal Induction of Vascular Tissue in Tobacco Pith in vitro: M. E. Clutter .... 548

Oxygen Equilibrium of Brachiopod Lingula Hemerythrin: C. Manwell ............ 550

Departments
Letters from J. A. Gustafson: B. T. Eiduson and G. Holton; M. Taube; W. P. Taylor and E. J. Ryder ................................................................. 552

The Pancreas; Forthcoming Events; New Products ................................................................. 564

Cover
The amphitheater surrounding Rainbow Bridge, Rainbow Bridge National Monument, Utah. See page 519. Photographed by Russell I. Alley, Salt Lake City, Utah. [U.S. Bureau of Reclamation]