Contents

Bat Occurrence and Use of Archaeological Sites at Three National Monuments in Central Arizona
Melanie Bucci, Yar Petryszyn, and Paul R. Krausman .................................................. 1

Oleoresin Exudation Quantity Increases and Viscosity Declines Following a Fire Event in a Ponderosa Pine Ecosystem
Thomas S. Davis, Karl Jarvis, Katy Parise, and Richard W. Hofstetter ............................ 6

Additions to the Flora of the Appleton-Whittell Research Ranch, Northeastern Santa Cruz County, Arizona
Erika L. Geiger, Linda J. Kennedy, and Steven P. McLaughlin ......................................... 12

Using Atmospheric Profiles to Forecast Severe Hail Events in Northern Arizona during the North American Monsoon Season
Jonny W. Malloy ..................................................................................................................... 16

Urban and Regional Temperature Trends in Las Vegas and Southern Nevada
James A. Miller .................................................................................................................... 27

Biomass of Witches' Brooms Caused by Douglas-fir Dwarf Mistletoe in Northern Arizona
Laine Smith, Robert Mathiasen, and Richard Hofstetter ................................................... 40

The Morphology and Spatial Distribution of Late Quaternary Periglacial Landforms, Snake Range, Nevada: A GIS-Based Approach to Prioritizing Field Sites
John G. Van Hoesen and Richard L. Orndorff ................................................................. 48