Contents

Discovery Editors

Follow this and additional works at: https://scholarworks.uark.edu/discoverymag

Part of the Agribusiness Commons, Agricultural Economics Commons, Agricultural Education Commons, Agronomy and Crop Sciences Commons, Animal Sciences Commons, Botany Commons, Communication Commons, Entomology Commons, Environmental Studies Commons, Food Science Commons, Home Economics Commons, Horticulture Commons, and the Nutrition Commons

Recommended Citation

This Front Matter is brought to you for free and open access by ScholarWorks@UARK. It has been accepted for inclusion in Discovery, The Student Journal of Dale Bumpers College of Agricultural, Food and Life Sciences by an authorized editor of ScholarWorks@UARK. For more information, please contact ccmiddle@uark.edu.
CONTENTS

Undergraduate Research Articles

Processing and storage effects on the polyphenolic content and antioxidant capacity of conventional and sugar-free blueberry jams
Chelsey Castrodale, Luke Howard, and Cindi Brownmiller .......................................................... 3

History of development and characterization of the U.S. blackberry market
Thais F. Carvalho, John R. Clark, and Michael R. Thomsen .......................................................... 10

Effectiveness of zinc given intra-nasally or orally to newly received stocker cattle against bovine respiratory disease and effects on growth performance
Amy R. Guernsey, Beth Kegley, Jeremy G. Powell, Doug L. Galloway, Alicia C. White, and Steve W. Breeding .................................................................................................... 17

Developing enterprise budgets for sustainable school gardens:
Service learning in a global context
Ashley D. Jones and Jennie S. Popp ................................................................................................ 24

Application of cross-linked rice starches as drug delivery matrices in monolithic tablets
Christopher F. Peluso, Fernanda O. Onofre, and Ya-Jane Wang .................................................. 29

Measurement of transient smoke emissions from diesel and biodiesel fuel blends in an agricultural tractor
Kristin M. Pennington, Sonia R. Munoz, Donald M. Johnson, George Wardlow ................................ 37

Correlation of calcium and magnesium intakes to frequency of muscle cramps in female college athletes
Jennifer Schneider and Marjorie Fitch-Hilgenberg ....................................................................... 41

E-85 vs. regular gasoline: effects on engine performance, fuel efficiency, and exhaust emissions
Jordan W. Steinhaus, Donald M. Johnson, George W. Wardlow .................................................. 47

Establishing a rapid and effective method for screening salt tolerance in soybean
Mioko Tamura and Pengyin Chen .............................................................................................. 53

Instructions for Authors ............................................................................................................. 62

Cover: The fresh blackberry market in the U.S. has grown significantly in the past 10 years or so due in part to the development of new cultivars with improved firmness and longer shelf life. Worldwide, there has been a 45% increase in area planted by producers from 1995-2005. The paper in this issue by Carvalho et al. examines shipment and price trends from 1999-2008 and presents a history and characterization of this growing market. Cover design by Judy Howard. Photo by Fred Miller.