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May 19 – July 28, 2013



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Garrett Billings, Utah State University, Logan, UT (Bogler)
Hannah Carpenter, University of Nebraska – Omaha, NE (Haake)

Legend:

- Parking
- Picnic Area
- Reserve Boundary
- Potomac Loop Rd. & Trail House Loop Rd.
- Service Road
- Wash. Coast Trail (12)
- Wolf Run Trail (8)
- Pyralis Trail (6)
- Goldford River Trail (13)
- Wildflower Trail (14)
- Buff Creek Trail (15)
- Woodland Trail (16)
- Other Trails

Scale: 0 to 1/4 mile

SHAW NATURE RESERVE

Map Labels: Potomac Loop Rd., Trail House Loop Rd., Service Road, Wash. Coast Trail (12), Wolf Run Trail (8), Pyralis Trail (6), Goldford River Trail (13), Wildflower Trail (14), Buff Creek Trail (15), Woodland Trail (16), Other Trails, Main Entrance, Visitor Information Center, Potomac Loop Rd., Trail House Loop Rd., Service Road, Wash. Coast Trail (12), Wolf Run Trail (8), Pyralis Trail (6), Goldford River Trail (13), Wildflower Trail (14), Buff Creek Trail (15), Woodland Trail (16), Other Trails, Main Entrance, Visitor Information Center.

Trail System:

The Shaw Nature Reserve trail system is one of the most extensive in the state. It includes over 100 miles of trails, including the Potomac Loop Trail, the Wolf Run Trail, the Pyralis Trail, the Goldford River Trail, the Wildflower Trail, the Buff Creek Trail, and the Woodland Trail. The trails are designed to provide visitors with a variety of experiences, from easy walks to challenging hikes. The trails are also designed to provide visitors with a variety of experiences, from easy walks to challenging hikes.

Wilderness Area:

The Shaw Nature Reserve includes a large area of wilderness, which is a designated area of land that is protected from development and is managed to preserve its natural resources. The wilderness area is home to a variety of plants and animals, and it provides a unique opportunity for visitors to experience nature in its most pristine form.

Visitor Information:

For more information about the Shaw Nature Reserve, please visit our website at www.shawnature.org or call us at 800-855-2222. We are open from 9:00 a.m. to 5:00 p.m. daily, and we are closed on Mondays and Tuesdays.





























Feed the roaches!

Purchase cups of food at the giftshop
and you can give these roaches a tasty snack!

Only \$1.00 each!

To avoid any feeding and collection issues, quantities are limited each day.
Get there while supplies last!



Young Conservation Area

La Barque Creek



<http://alltrails.com/trail/us/missouri/hilda-young-conservation-area-trail>



















Danforth Plant Science Center



Our Mission: *Improve the human condition through plant science*

- Feed the hungry and improve human health
- Preserve and renew our environment
- Enhance the St. Louis region as a world center for plant science



Paul Anderson, Ph.D., Executive Director
Institute for International Crop Improvement



Vitamin A Fortified Cassava

Traditional Cassava

Danforth Plant Science Center

R. Howard Berg - Director of Integrated Microscopy Facility



Transmission Electron Microscope



Confocal Microscope

Danforth Plant Science Center – tissue culture



Danforth Plant Science Center – tissue culture



Dr. Sona Pandey



Dr. Bradley Evans - Director, Proteomics and Mass Spectrometry Facility





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Round Spring, Shannon County



Alley Springs, Shannon County

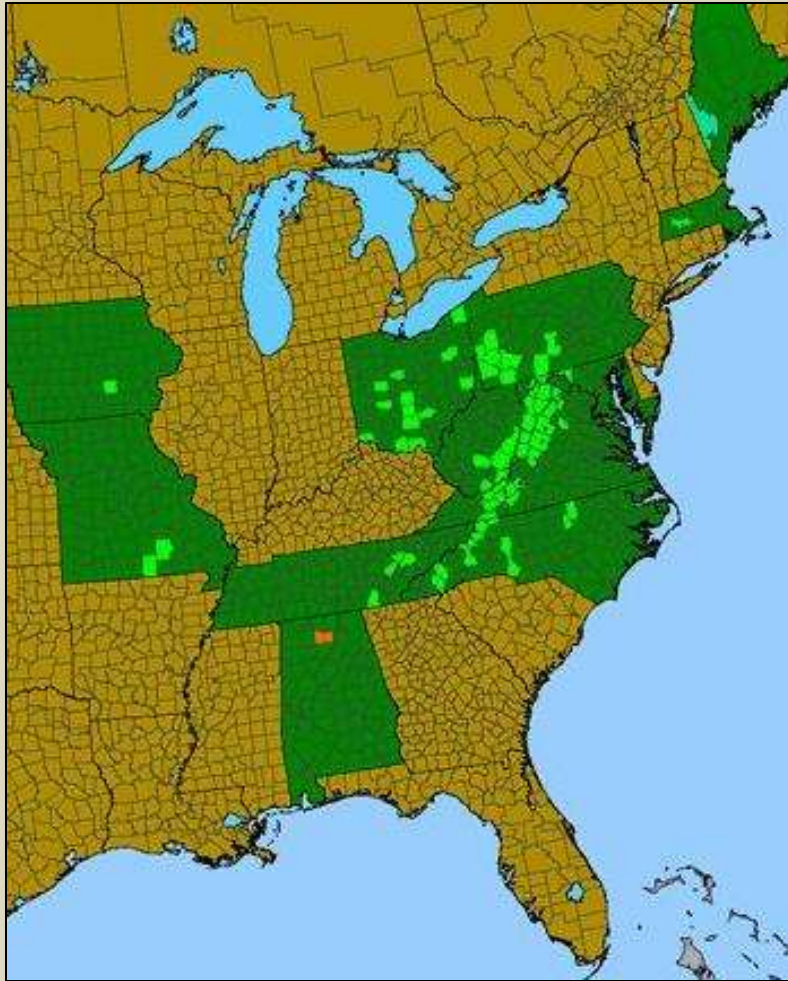




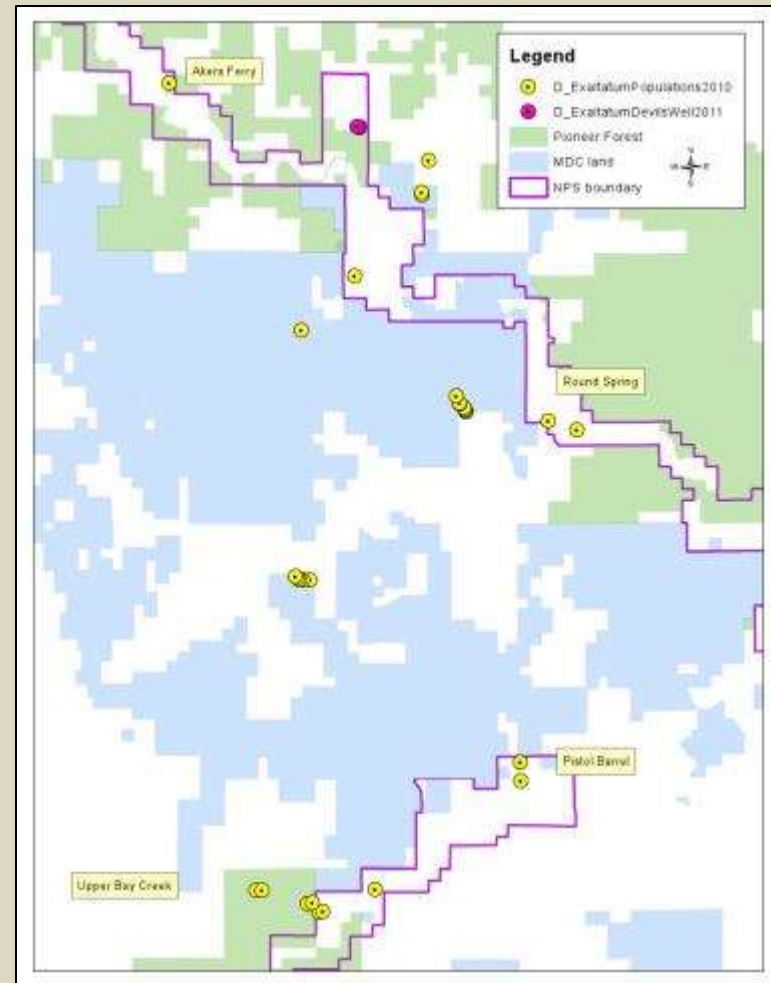


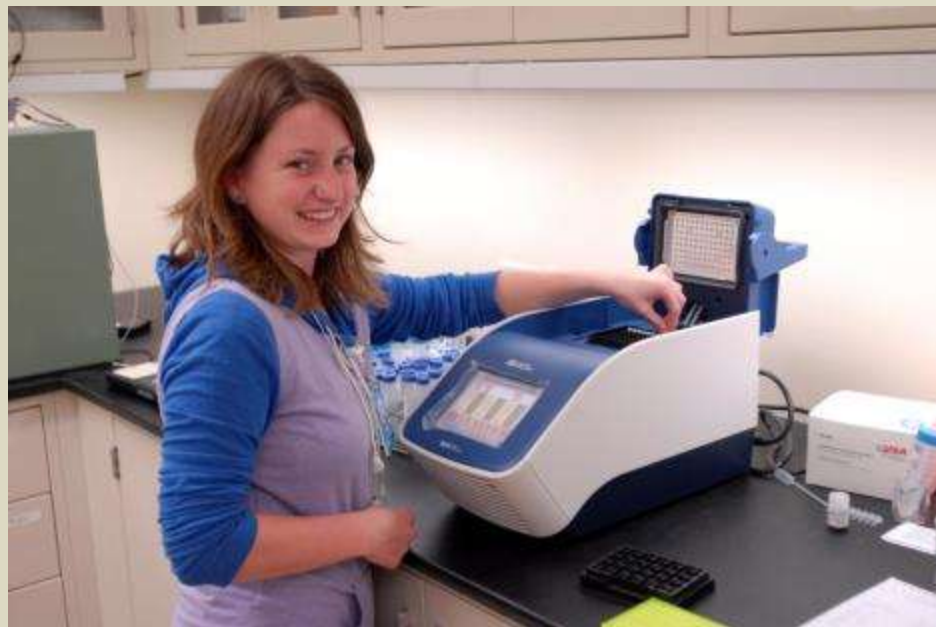
Conservation Genetics of Tall Larkspur (*Delphinium exaltatum*)

U.S. Distribution



Shannon Co., Missouri







Dan Drees, National Park Service, Fire Ecologist







Hexalectris spicata

Silene regia





2013 REU Mentors



Raza Bhatti, Centre for Biodiversity & Conservation, Shah Abdul Latif University, June 6

"Desert Ecosystem Services: A case study of the Nara Desert-Sindh- Pakistan"

James Trager, Missouri Botanical Garden, Shaw Nature Reserve, June 11

"Ants, Pismires and Emmets"

Shirley Graham, Missouri Botanical Garden, June 13

"Introduction to Lythraceae, the Loosestrife family"

Peter Stevens, University of Missouri at St. Louis, June 18

"Angiosperm success and importance: trying to go beyond raw numbers"

Allison Miller, St. Louis University, June 20

"Getting to the roots of local adaptation: evolution, diversity, and conservation of North American grapevines"

Richard Keating, Missouri Botanical Garden, June 25

"Plants of the Bible"

John C. Willman, Washington University, June 27

"Microscopic perspectives on diet and the use of teeth-as-tools among Neandertals and early modern humans"

Jean Ponzi, Missouri Botanical Garden, July 2

"Sustainability 101: The Power of Plants"

Peter Bernhardt and Retha Meier, St. Louis University, July 9

"Pollination and hybridization of large-flowered, Thelymitra spp. (Orchidaceae) in Western Australia."

Quinn Long, Missouri Botanical Garden, CCSD, July 11

"Invasive Species Ecology"

Oyomoare Osazuwa-Peters, University of Missouri at St. Louis, July 16

"Radial variation in wood density of tropical tree species differing in growth mortality strategies"

Heritiana Ranarivelo, University of Missouri at St. Louis, July 16

"Molecular phylogeny and variation of morphological characters within the Vismieae (Hypericaceae), with an emphasis on the Afro-Malagasy genus Psorospermum"

Peter Hoch, Missouri Botanical Garden, July 18

"What plants at Shaw Nature Reserve tell us about climate change"

Eva Gonzales, St. Louis University, July 19

"Plant conservation genetics in a changing world: Consequences of evolutionary history and human introductions" (

George Yatskievych, Missouri Botanical Garden, July 23

"Overview of the Flora of Missouri Project"



Acknowledgements

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Chuck Sullivan – NSF Program Officer

James Trager – SNR arrangements

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Sally Bommarito – Plant Mounters

Mary McDonald - Herbarium

Jennifer (Jif) Kuhl - Herbarium

Peter Wyse Jackson - President

Bob Magill – VP Research

Myriam Fica – Web page

Keith Warfield – Room setups

Dianne Schmidt – Budget

Cheryl Mill – Checks