# Status Update on Pollinator Conservation in Oklahoma

Environmental Federation of Oklahoma: 30 Years of Purpose, People, Passion & Programs

Dr. Keng-Lou James Hung, University of Oklahoma



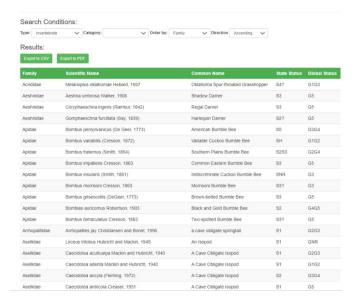


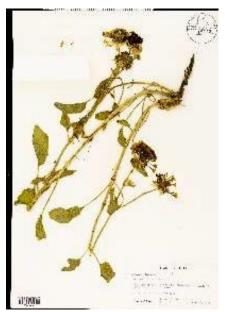
# OKLAHOMA BIOLOGICAL SURVEY

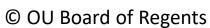










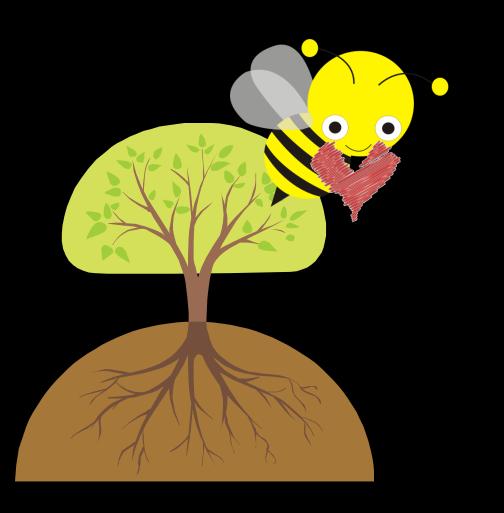


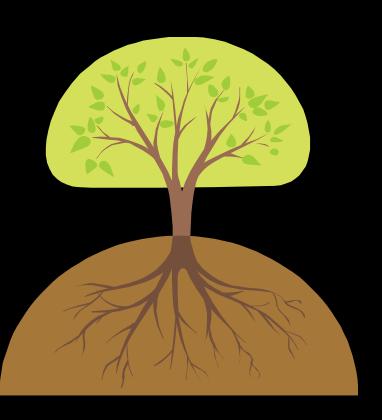


I acknowledge that the land on which the University of Oklahoma now resides was the traditional home of the Hasinai Caddo Nation and the Kirikiri Wichita and Affiliated Tribes.

I acknowledge this territory once also served as a hunting ground, trade exchange point, and migration route for the Apache, Comanche, Kiowa and Osage nations.

The University of Oklahoma recognizes the historical connection our university has with its indigenous community. We acknowledge, honor and respect the diverse Indigenous peoples connected to this land. We fully recognize, support and advocate for the sovereign rights of all of Oklahoma's 39 tribal nations.





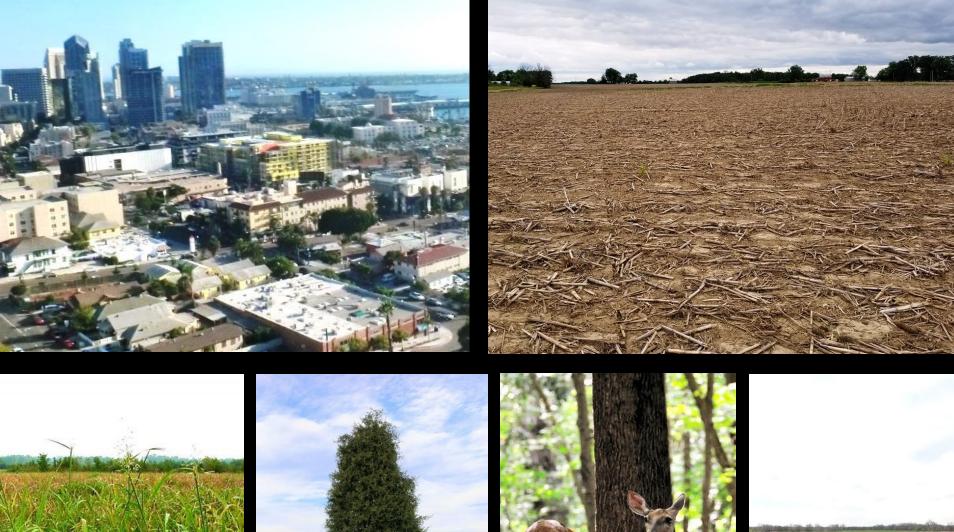
























	United States <sup>3</sup>			Foreign			Total	US Listings with
Group	Endangered	Threatened	Total Listings	Endangered	Threatened	Total Listings	Listings (US and Foreign)	active Recovery Plans <sup>2</sup>
Amphibians	23	16	39	8	1	9	48	27
Annelid Worms	0	0	0	0	0	0	0	0
Arachnids	11	0	11	5	0	5	16	11
Birds	76	23	99	217	21	238	337	91
Clams	77	16	93	2	0	2	95	74
Corals	0	7	7	3	15	18	25	0
Crustaceans	25	5	30	0	0	0	30	21
Fishes	94	77	171	27	9	36	207	107
Flatworms and Roundworms	0	0	0	0	0	0	0	0
Hydroids	0	0	0	0	0	0	0	0
Insects	75	15	90	4	0	4	94	64
Mammals	66	30	96	261	23	284	380	63
Millipedes	0	0	0	0	0	0	0	0
Reptiles	17	29	46	70	24	94	140	40
Snails	38	13	51	1	1	2	53	37
Sponges	0	0	0	0	0	0	0	0
Animal Totals	502	231	733	598	94	692	1425	535
							Data	from USFWS

## Pollinator listings relevant to Oklahoma

### Federal - candidate species

Monarch butterfly (Danaus plexippus)

## Federal - species under review

Rattlesnake-Master Borer Moth (Papaipema eryngii)

Linda's Roadside-skipper (*Amblyscirtes linda*)

Frosted Elfin (*Callophrys irus*)

Regal Fritillary (*Speyeria idalia*)

Southern Plains Bumble Bee (Bombus fraternus)

Variable Bumble Bee (Bombus variabilis)

American Bumble Bee (Bombus pensylvanicus)

## **Additional OK Species of Greatest Conservation Need**

Slosser's Buck Moth (Hemileuca slosseri) - OK Tier 2

Byssus Skipper (*Problema byssus*) – OK Tier 2

Diana Fritillary (Speyeria diana) – OK Tier 2

Outis Skipper (Cogia outis) – OK Tier 2

Iowa Skipper (Atrytone arogos iowa) – OK Tier 3

Dotted Skipper (*Hesperia attalus*) – OK Tier 3

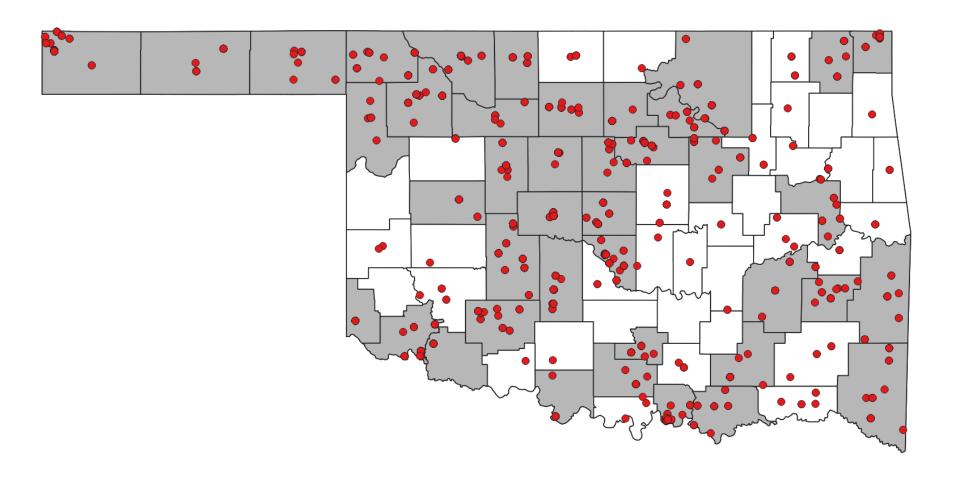


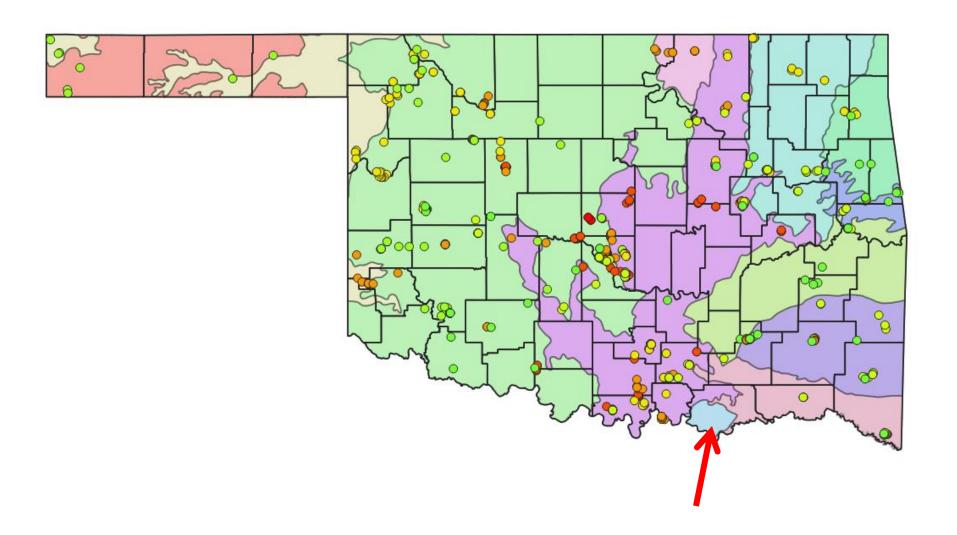
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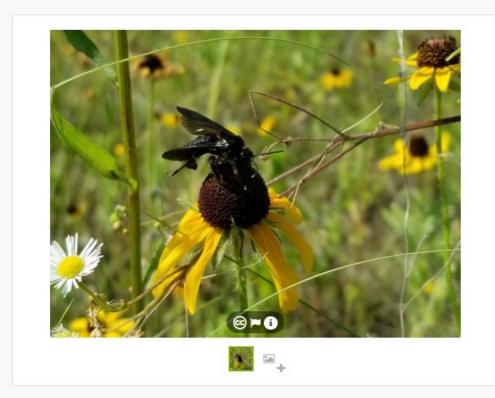


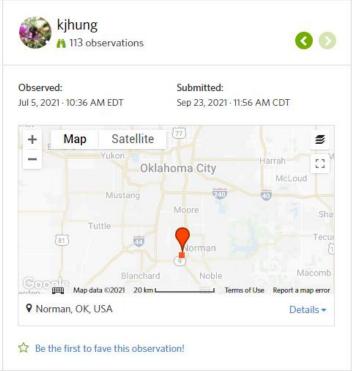




## Sunflower Nomia (Dieunomia heteropoda) Needs ID



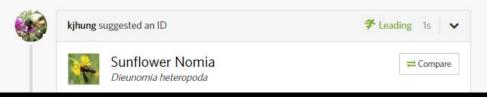




#### Notes

Male Dieunomia heteropoda visiting Rudbeckia hirta flower

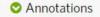
#### Activity



#### Community Taxon

Compare . What's this?

The Community ID requires at least two identifications.



Attribute	Value	Agree	Disagree
Alive or Dead	Select →		



Search

Explore Your Observations Community ~

Identify

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Overview

4,036 **OBSERVATIONS**  103

**SPECIES** 

323 **IDENTIFIERS**  944 **OBSERVERS** 

4 Stats

### Recent Observations (











# **Special Thanks!**

Oklahoma Biological Survey: Liz Bergey, Amy Buthod, Priscilla Crawford, Todd Fagin, Bruce Hoagland, Abby Moore, Sam O'Dell, Mary Powley, Brenda Smith, Lara Souza, Jessie Tate

Oklahoma Department of Wildlife
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Mark Howery, Kurt Kuklinski, Curtis
Tackett

Other collaborators: David Arbor, David Bohlken, Jane Breckinridge, Gloria Caddell, Brandon Gibson, Katie Gillies, Ken Hobson, Jay Pruett, Carrie Rush, Collin Spriggs, Brian Tabor, Paige Schmidt **Taxonomists:** John Ascher, Terry Griswold, Robbin Thorp, Michael Orr, Zach Portman, Molly Rightmyer, Kim Huntzinger, Karen Wright, Jason Gibbs, Doug Yanega, Mike Arduser, Sam Droege

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# Thank you for beeing here today!



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