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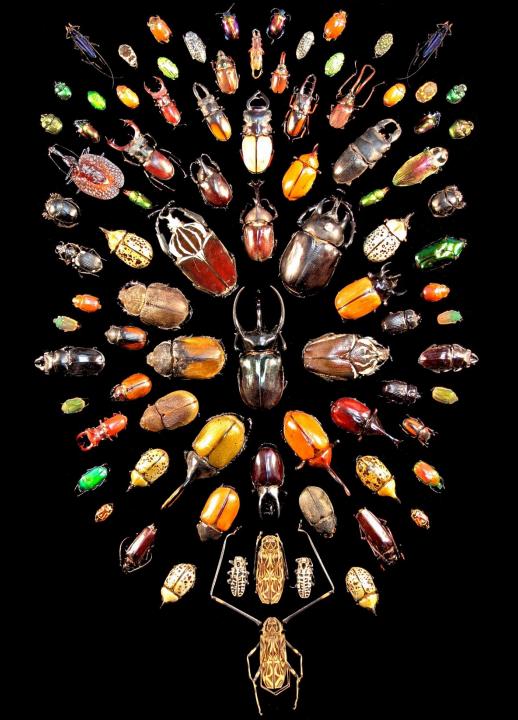
The Good, the Bad, and the Ugly: Texas' Amazing Insects

Dr. John C. Abbott April 23, 2004

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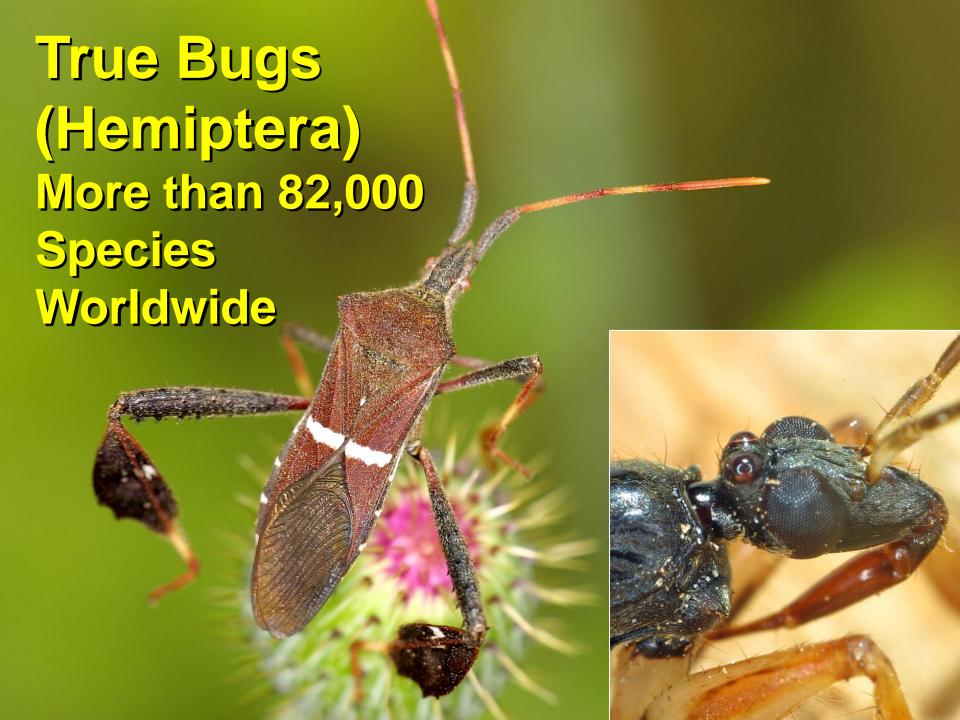
An Inordinate Fondness for Beetles











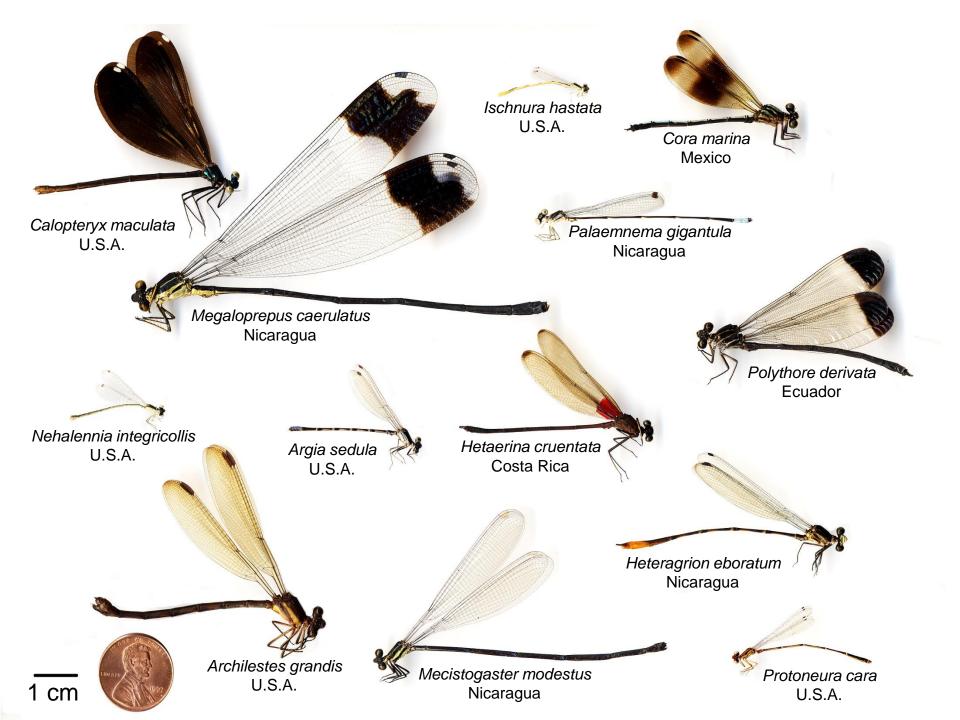






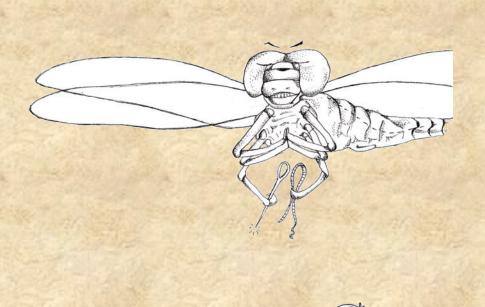
From the Greek for "tooth"





Myth and Folklore

- Snake Doctor
- Horse Stinger
- Devil's Darning Needle
- Eye Sticker
- Snake Stinger
- Demon's Pipe
- Devil's Needle
- Devil's Riding Horse
- Witch's Horse
- Adder's Servant
- Snake Feeder
- Adder Bolt



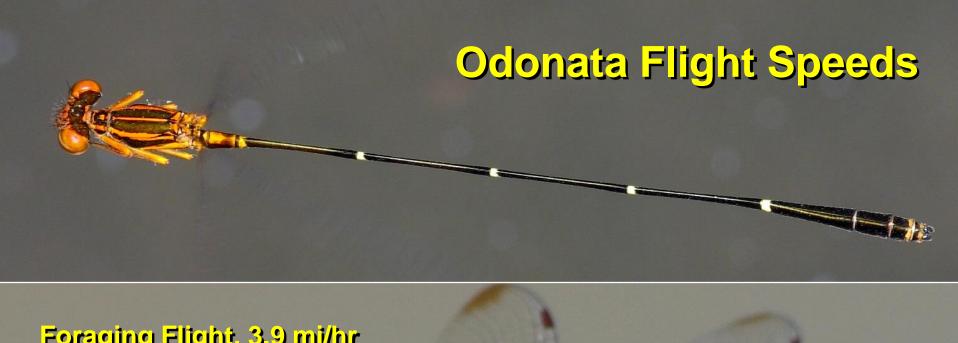






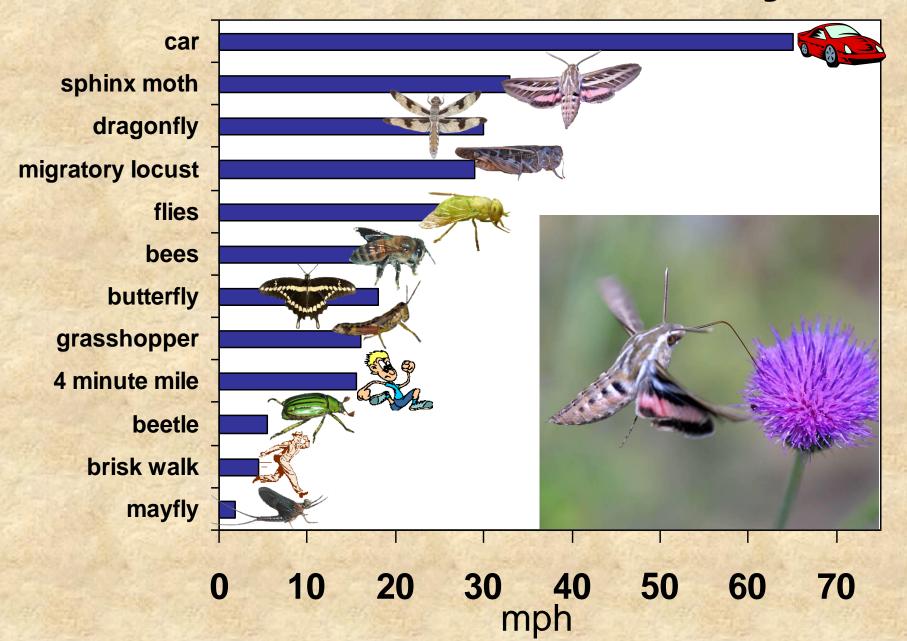








How Fast Do Insects Fly?

























With 96,075,000 head of cattle in the U.S., allowing 0.03 m²/cowpat x 10 defecations/day

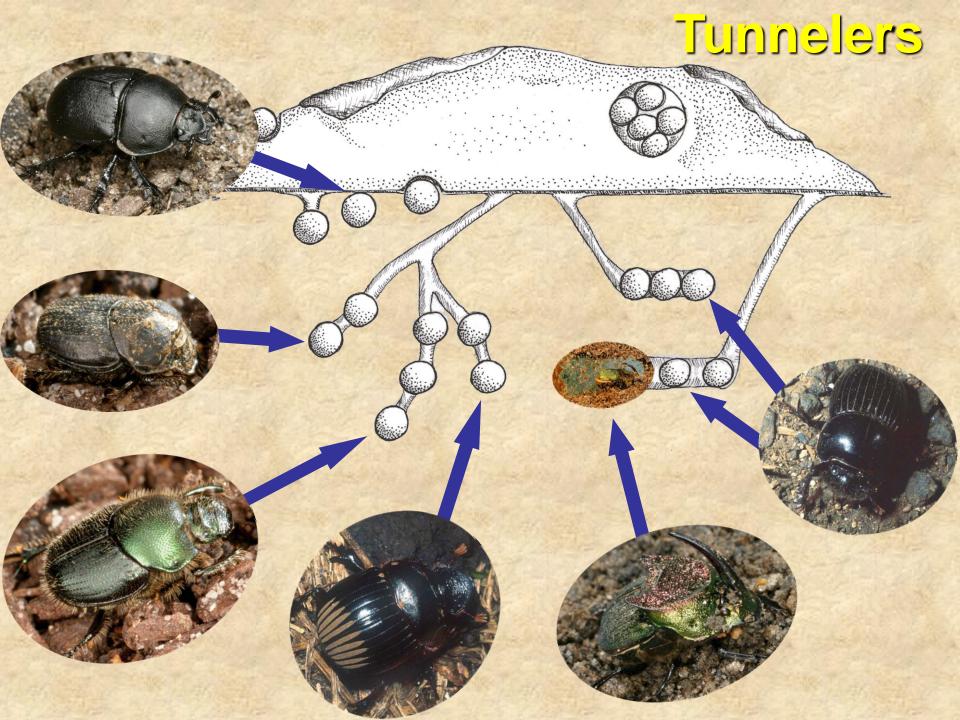
dung covers 4,973 heetare pasture/day (= 1,815,145 hectares/yr)

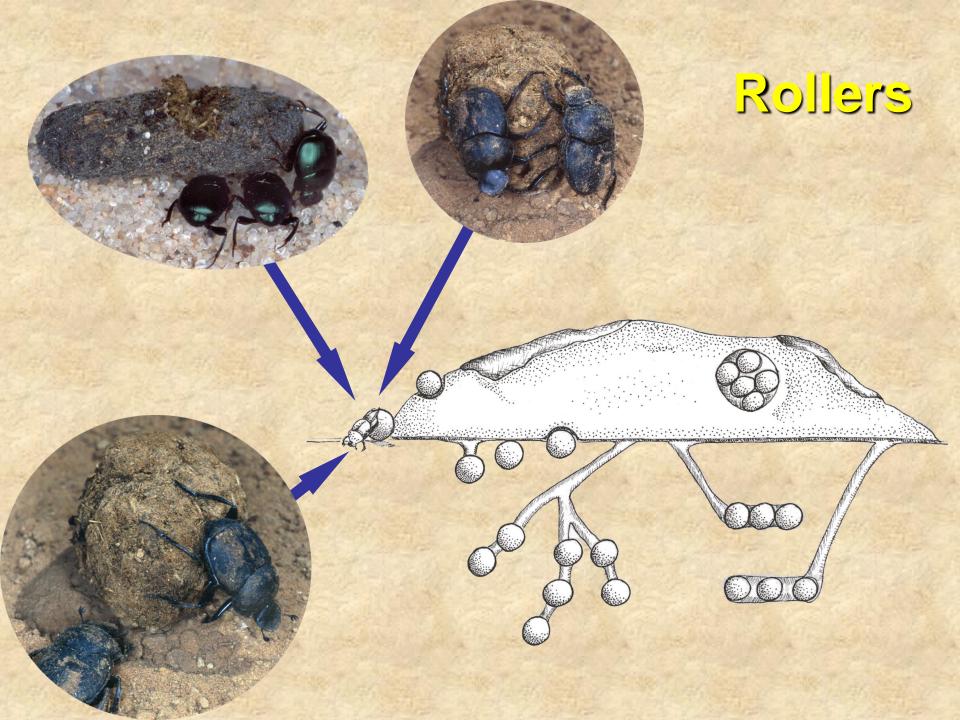
Corrections still allow for 335,678 hectares/yr

Dung Beetles contribute an estimated 2,068,360,154 to the economy every year









Competition for Food & Space

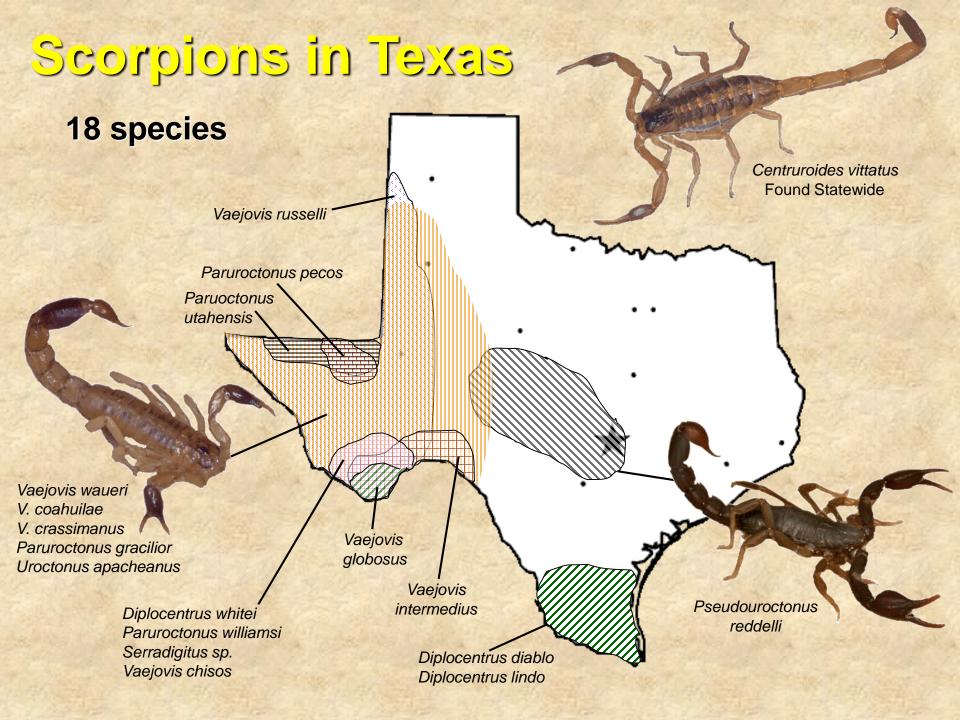
Functional Group	Adults		Larvae	
	Food	Space	Food	Space
Dwellers		4.	+	. +
Tunnelers	+	+	_	=
Rollers	+			

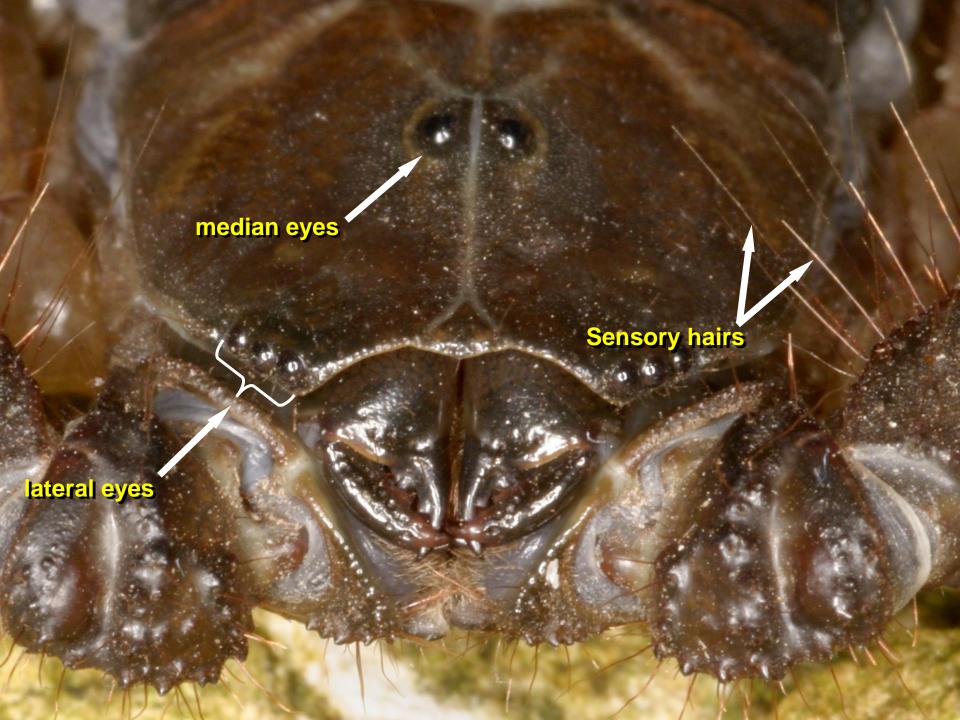






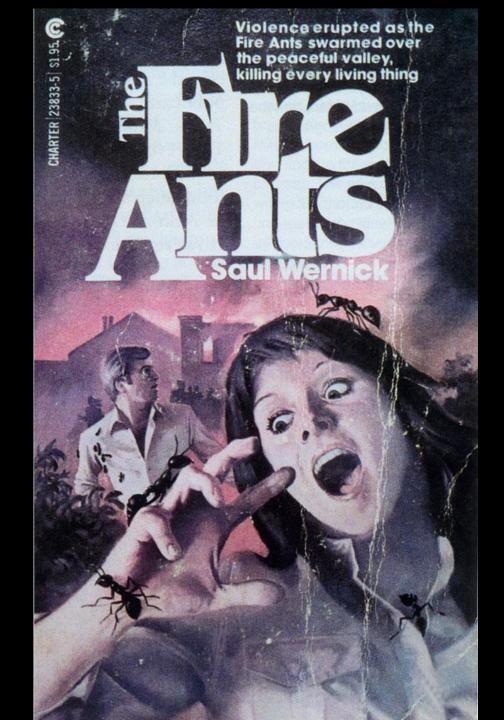












Native & Imported Fire Ants



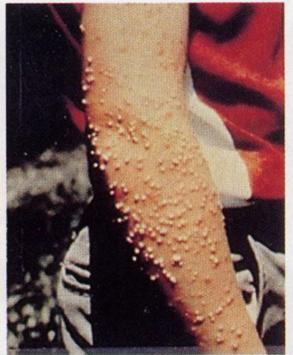




Headlines

- "Possibly lethal hordes of fire ants plague sadden Texas areas" (Washington Post, 30 October 1981)
- "But insects 'are winning': officials fighting to check fire ants march through Texas" (Los Angeles Times, 5 December 1981)
- "War on fire ants still suffers stinging losses" (Chicago Tribune, 13 June 1982)
- "Woman puts up tough fight before dying from fire ant stings" (Houston Chronicle, 23 November 1990)





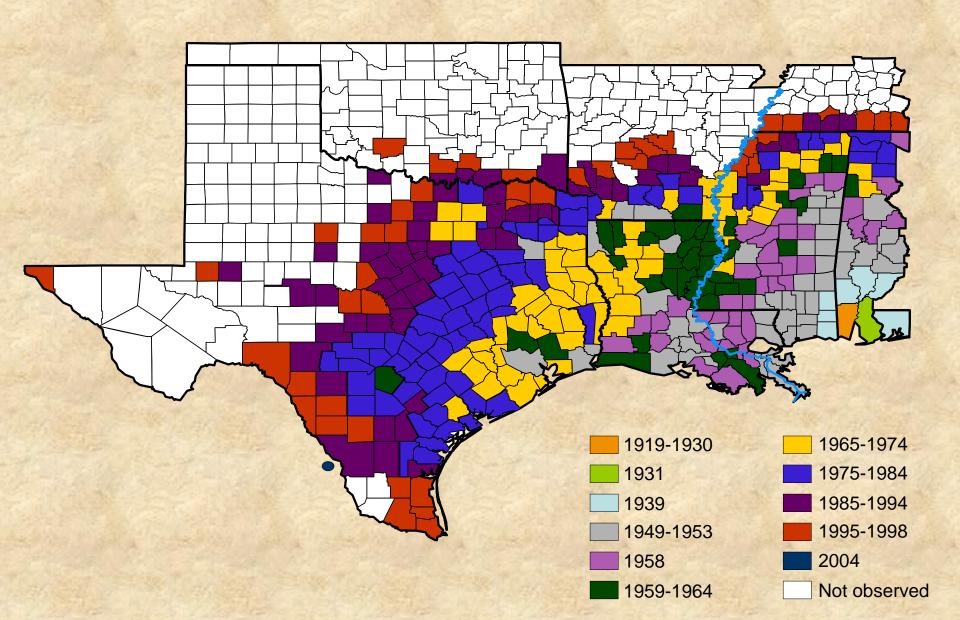
Fire ants swarm indoors, kill 2 people Report documents nursing-home deaths By Kathleen Facketmann They will go after pets

By Kuthleen Fackelmann USA TODAY

Fire ants have attacked and killed two elderly people in Mixissippi aursing homes, mising fears that indoor attacks will become more commonplace in the Southeastern states and other parts of the USA "They will go after pets. They will go after people," deShazo sivs.

Most don't die of the attacks. Fire ants swarm up a victim's body within seconds, deShato says. For most people, the venom causes a burning sensation and a well. But for about 1% of the population, a fire ant sting

Movement of 'invicta' into Texas



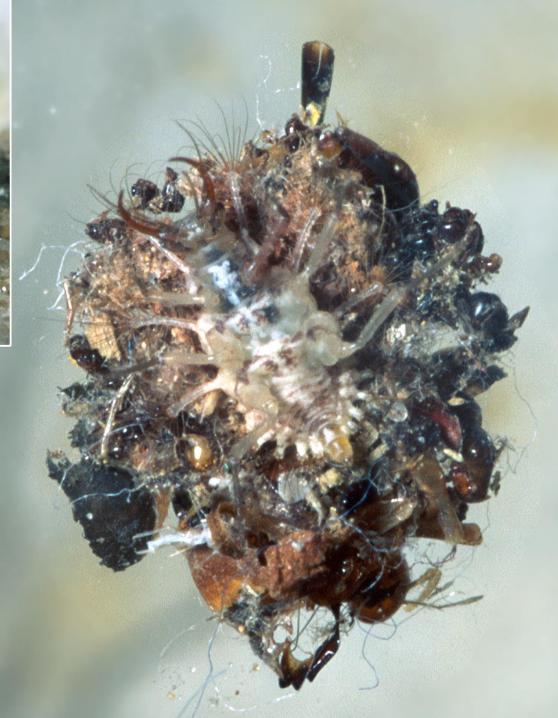






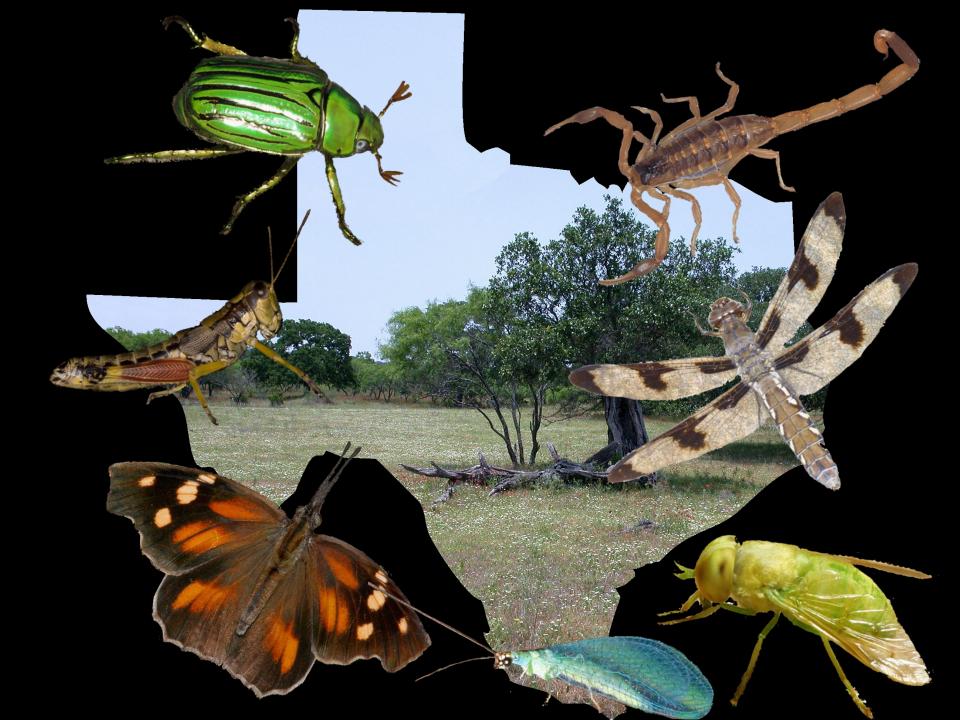


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Dr. John C. Abbott is an entomologist at the University of Texas at Austin. He teaches classes in general and aquatic entomology as well as ecology. His research interests revolve around the biodiversity and biology of Odonata. Dr. Abbott is also interested in the population and evolutionary ecology of aquatic insects and the biodiversity and evolutionary ecology of lamellicorn beetles.