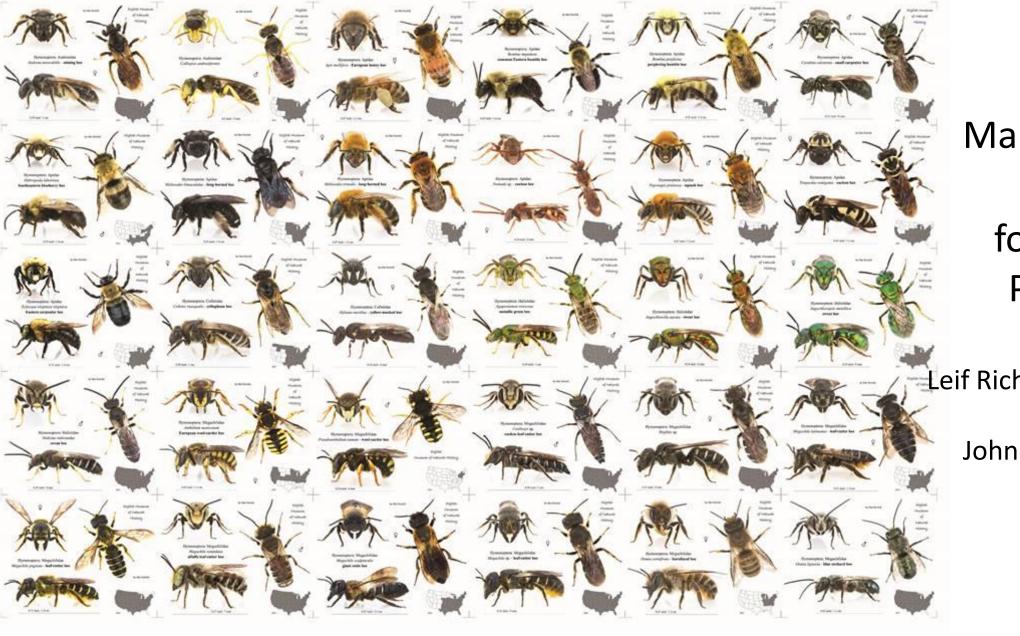


Jeffersonville • Vermont



Managing Native
Bees
for Tree Fruit
Pollination

Leif Richardson (USDA SCBG)

John Hayden (NESARE)

Hand Pollinating in China



Native Bee Tree Fruit Pollinators

Who are they?

How effective are they?

Are they in trouble or can we continue to take them for granted?

Can we enhance their populations through management?



Native Bees Who Are They?



Apidae
Bumblebees
Carpenter bees



Megachilidae

Mason bees





Andrenidae and Colletidae (Miner Bees and Polyester Bees)

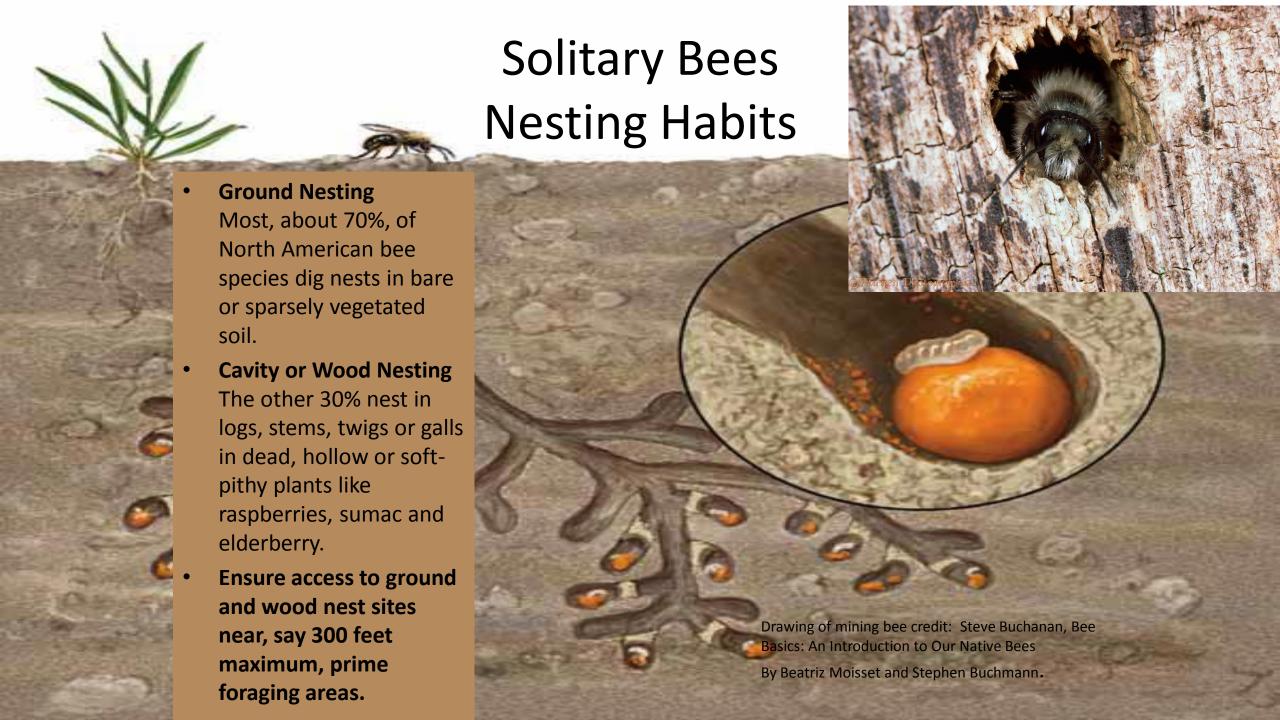




Halictidae (Sweat Bees)

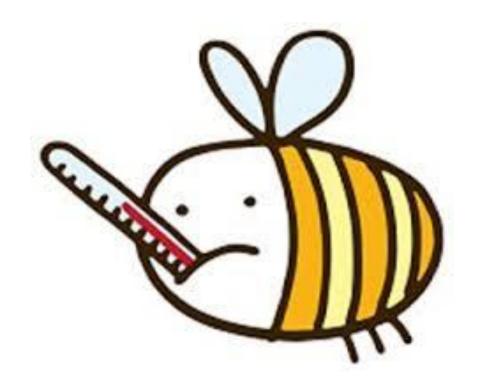








Why are they in trouble?



Pesticides
Disease and Parasites
Habitat Loss
Climate change

Some bumble bee species fine, some not so fine



Bombus attinis

