

Outline

- Define Trematodes
- Symptoms of trematodes
- **■** Associations of Decline
- **■** Importance

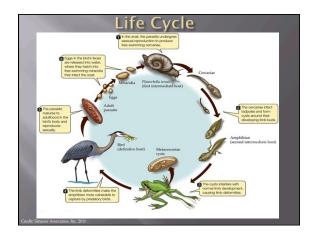
What is Ribeiroia?

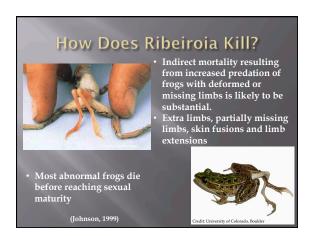


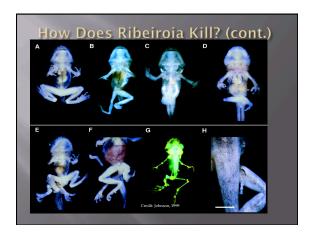
- Phylum: Platyhelminthes Class: Trematoda Order: Echinostomida Family: Psilostomatidae Genus: Ribeiroia Species: Ondatrae

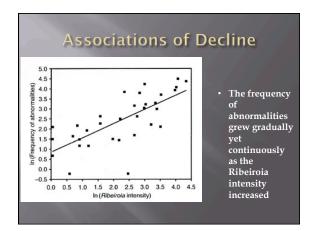
- Trematode parasite
 Has one of the worlds most complicated life
- cycles

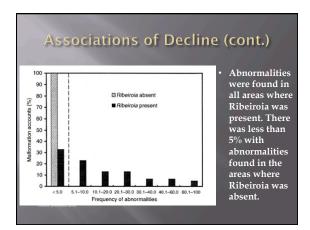
 Can be found in wetlands
- Ribeiroia is known to cause severe limb malformations and elevated mortality in amphibians. (Wilson, 2005)



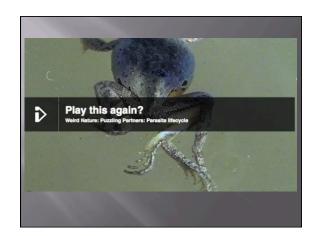








Most Important Because... Malformations might promote parasite transmission by increasing the susceptibility of infected amphibians to predation by definitive host. (Sutherland, 2003) It is very easy to spread from one water source to another.





References Biolinson, Pieter T.J. & Daniel Sutherland. "Amphibian Deformities and Ribeiroia Infection: An Emerging Helminthiasis." Science Direct (2003): n. pag. Johnson, Pieter T.J., Kevin Lunde, Euan Ritchie & Alan Luner. "The Effect of Trematode Infection on Amphibian Limb Development and Survivorship." Science Mag 284 (1999): 802-804. Johnson, Pieter T.J., Kevin Lunde, Michael Thurman, Euan Ritchie, Simon Wray. Daniel Sutherland, Joshua Kapfer, Terrence Frest, Jay Bowerman & Andrew Blaustein. "Parasite (Ribeiroia ondatrae) Infection Linked to Amphibian Malformations in the Western United States." Ecological Monographs 72.2 (2002): 151-168. Schotthoefer, Anna M. K. Marie Labak & Val Beasley. "Ribieroia ondatrae Cercariae Are Consumed by Aquatic Invertebrate Predators." The American Society of Parasitologists 93.5 (2007): 1240-1243. Wilson, Wade, T.J. Johnson, Daniel Sutherland, Helene Mone & Eric Loker. "A Molecular Phylogenetic Study of The Genus Ribeiroia (Dignea): Trematodes Known to Cause Limb Malformations in Amphibians." The Journal of Parasitology 91.5 (2005): 1040-1045.