



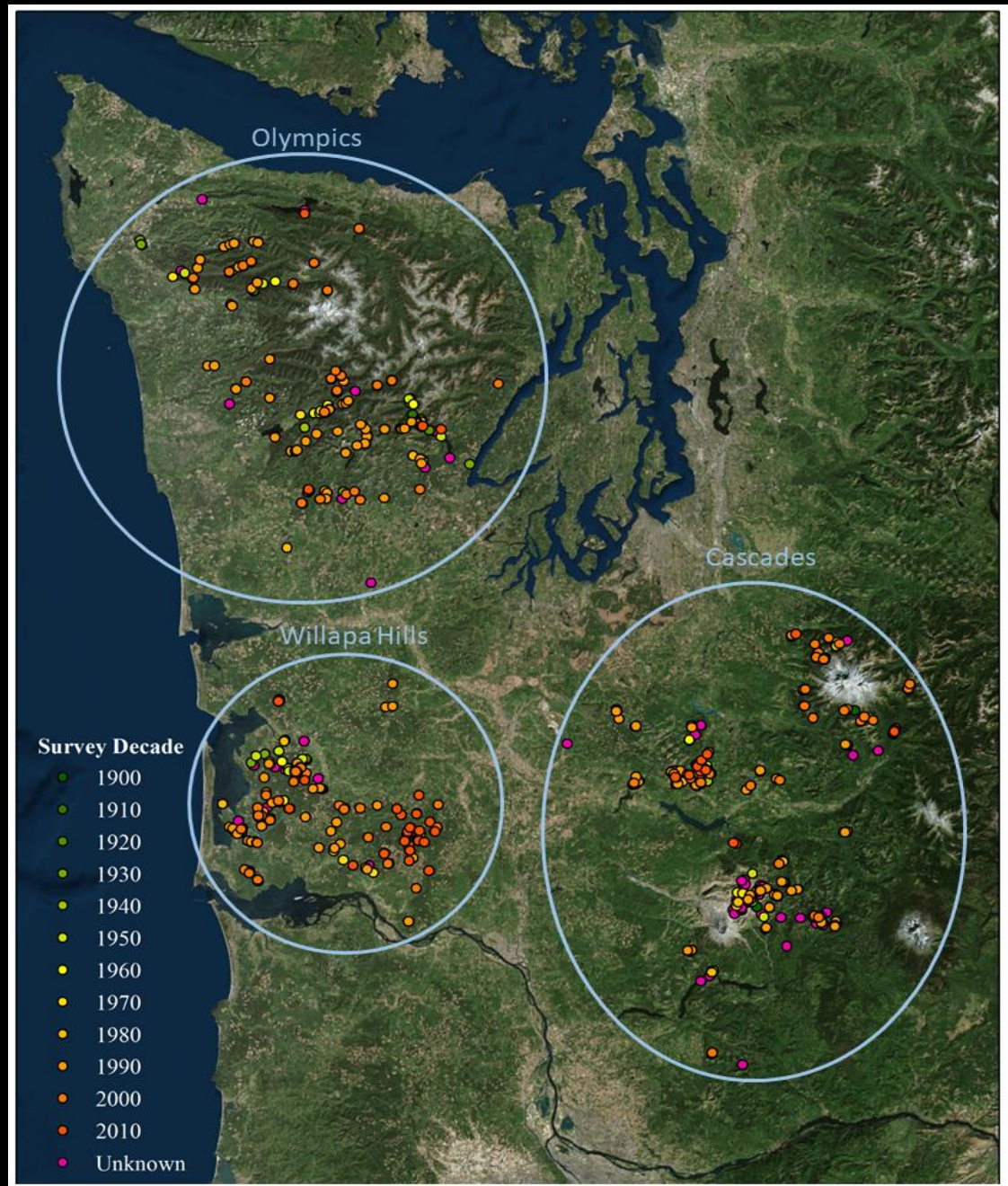
Chehalis Basin Strategy Riparian-Associated Amphibian Studies

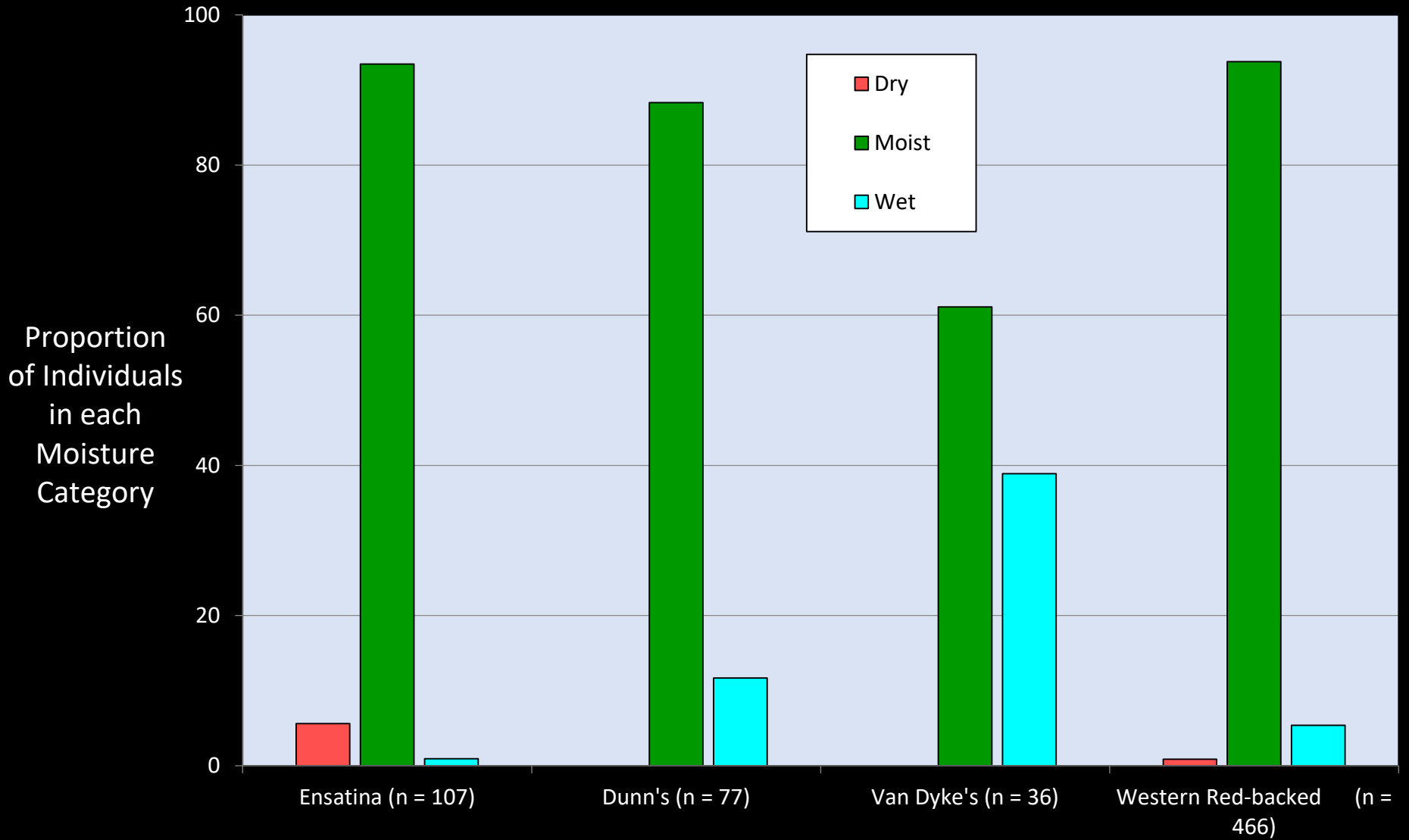
Riparian-Associated Amphibian Studies

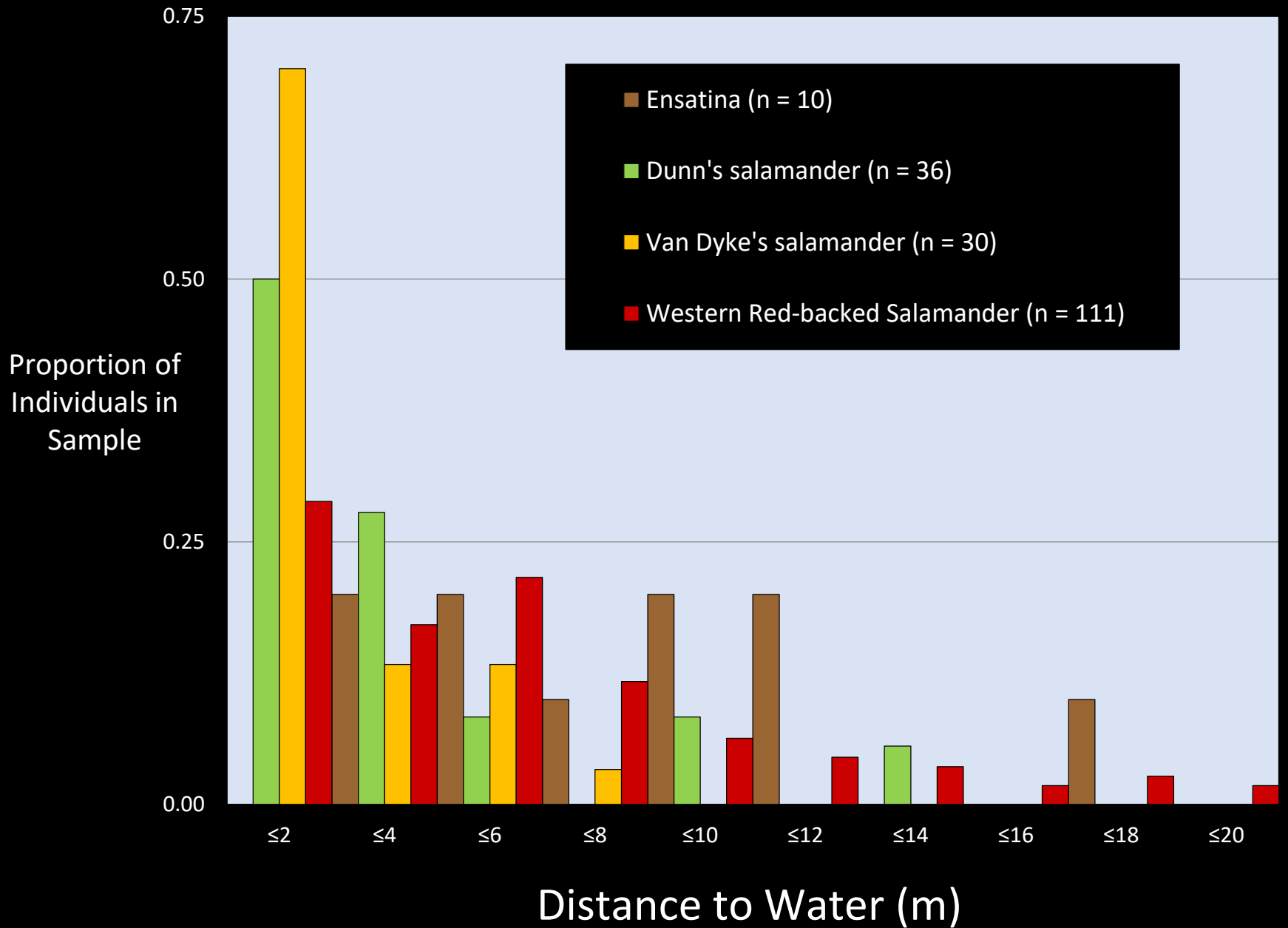
Marc Hayes
Julie Tyson
Keith Douville

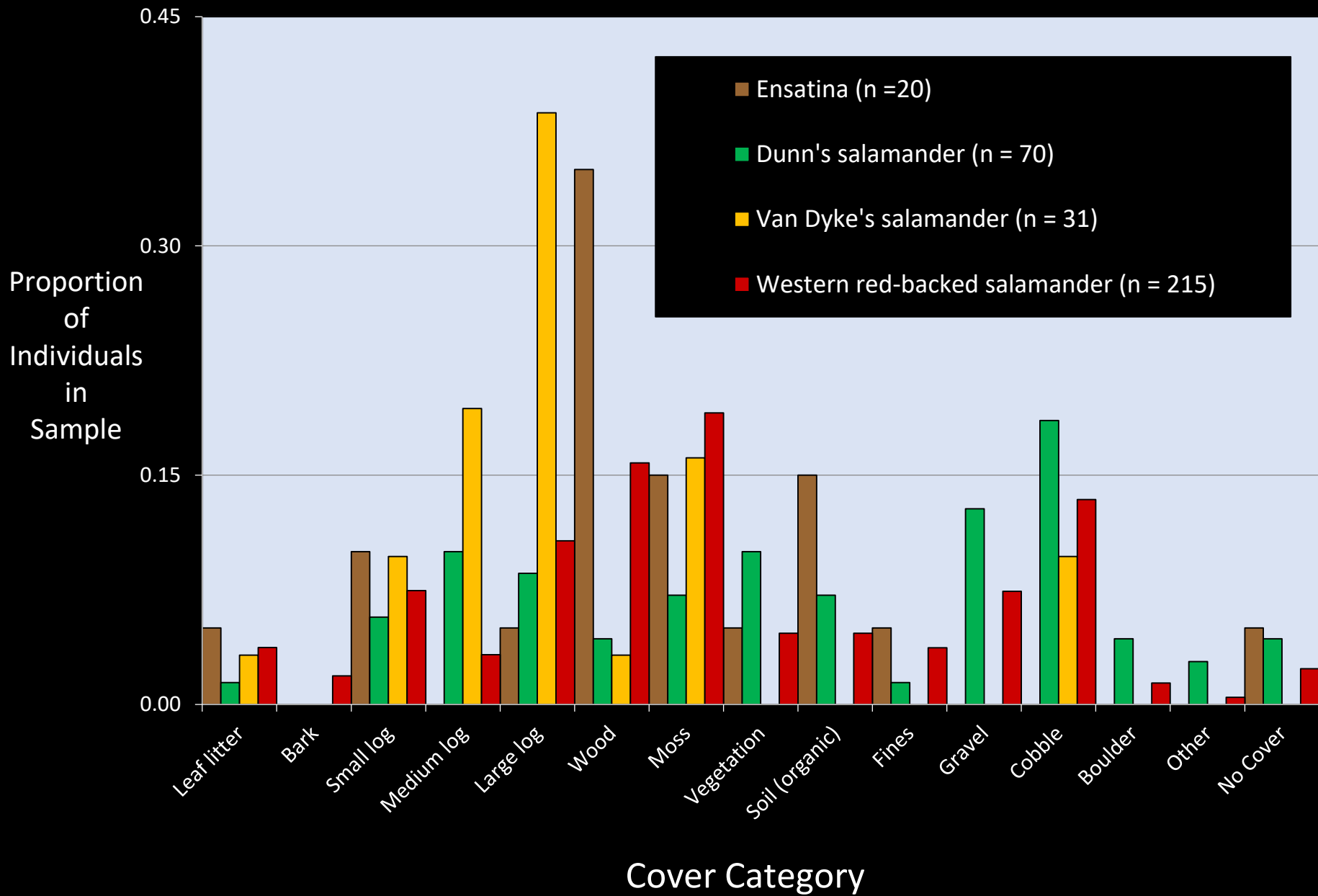


Van Dyke's Salamander Distribution in Washington State

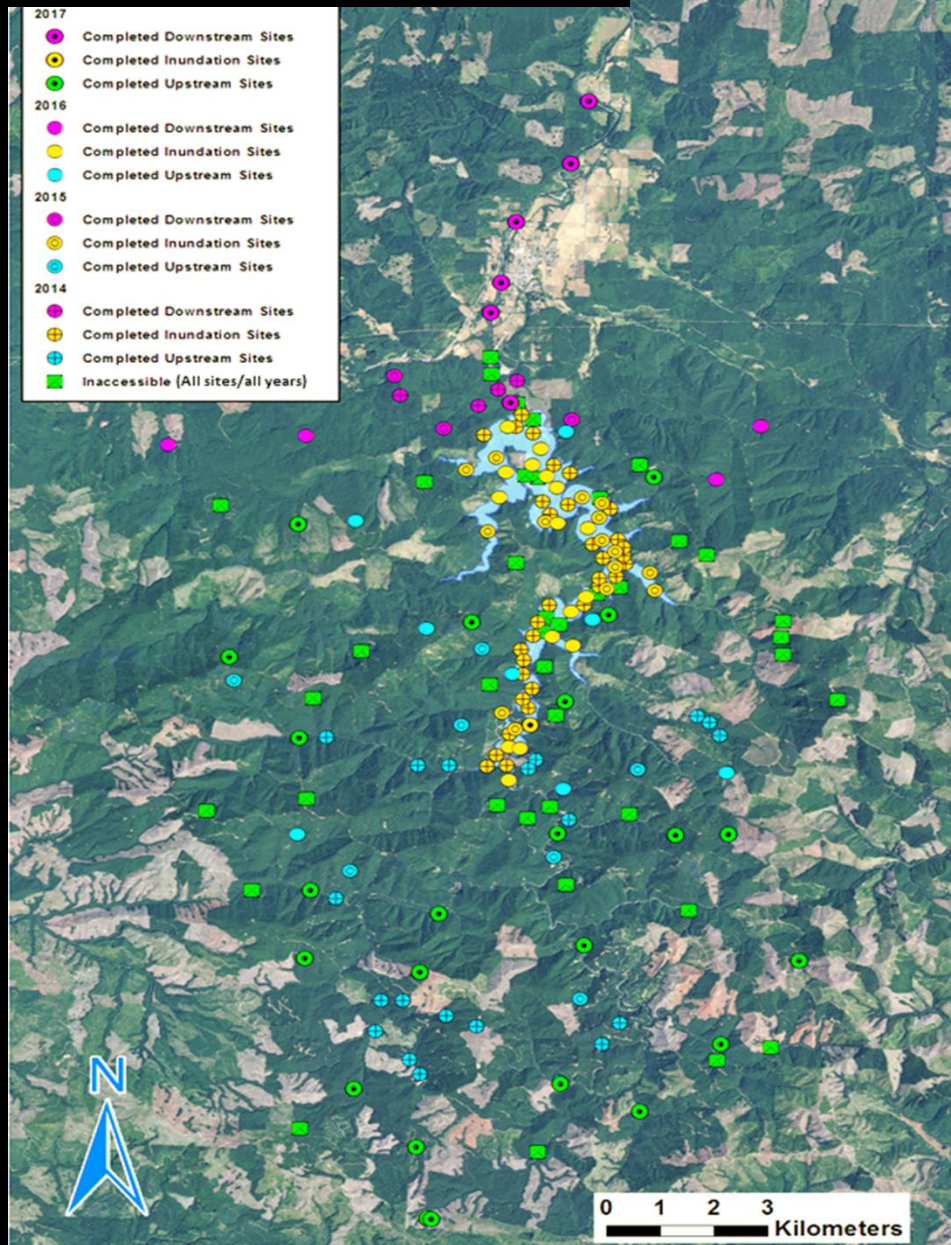


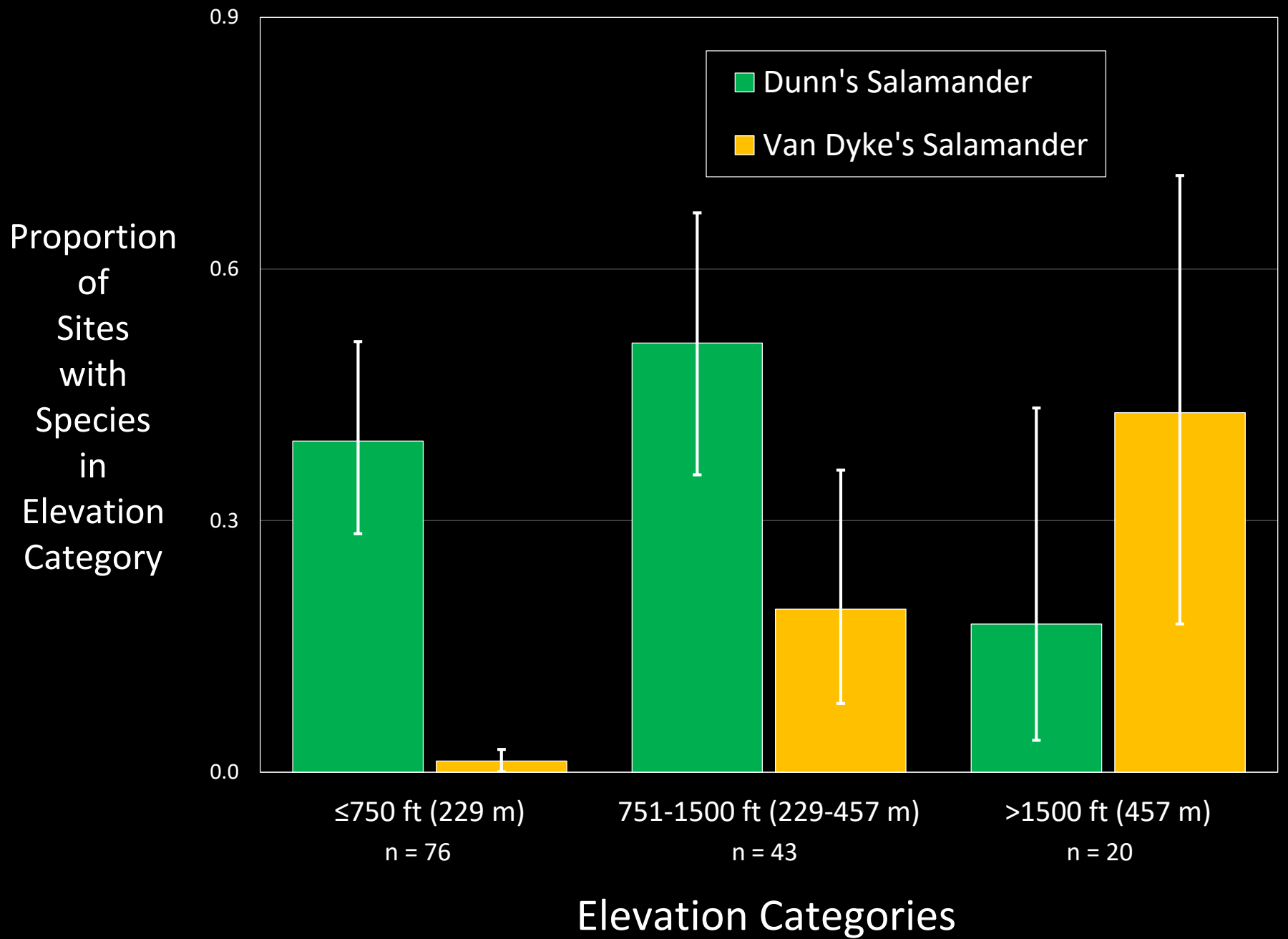






Riparian-Associated Amphibian Surveys





Highlights

- Van Dyke's salamander is:
 - more frequent at higher elevations ,
 - has greater moisture and lower temperature requirement than close relatives,
 - and a potential link to large wood.
- This combination of features make Van Dyke's particular vulnerable to the current climate change trajectory, that is, warmer seasonal temperature profiles resulting in general lower moisture and higher temperature conditions.
- The expectation is the loss of species from lower elevations, making higher elevations, which have a smaller areal footprint, crucial for the species long-term survival.
- In the Willapa Hills, essentially the entire area of its distribution is within the managed landscapes. Fortunately, Van Dyke's close tie to water puts its local distribution almost entirely with the width of current Forest Practices riparian buffers. However, roughly half of non-fish-bearing streams remain unbuffered under current rules.
- Hence, perhaps the best strategy to retain the species is to acquire higher elevation timberlands to enable removing them from production.