



Southwest Florida Frog Monitoring Network

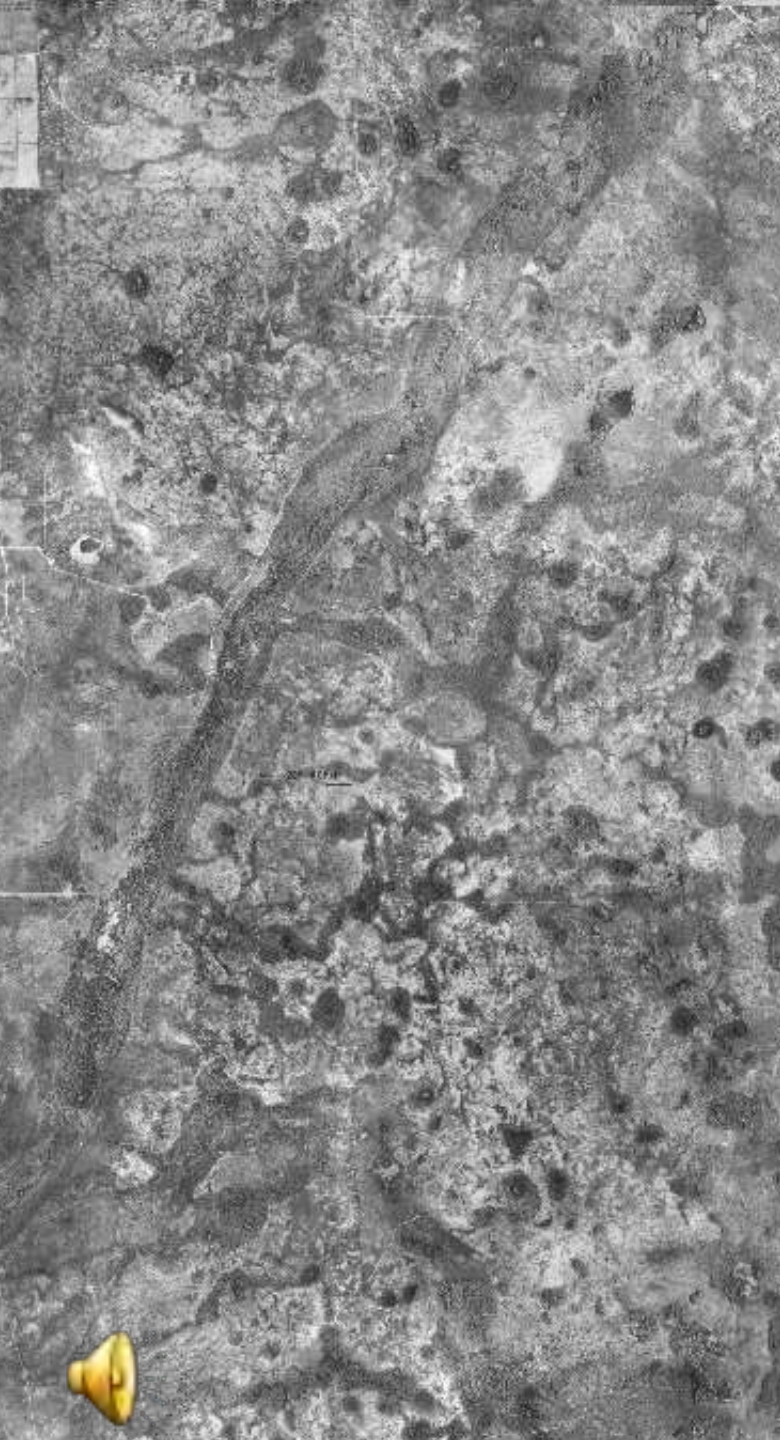
10 years of change in the frog
community of the Estero Bay
Watershed

Win Everham and John Cassani
Florida Gulf Coast University and

 Lee County Water Hyacinth Control District

Frogs – canaries in the coal mine





Frog Watch – Southwest Florida Amphibian Monitoring Network

- started in 2000
- John Cassani and Ellen Lindblad
- over 100 volunteers
- supported by Charlotte Harbor National Estuary Program
- Frog Watch <http://frogwatch.net/>
- North American Amphibian Monitoring Program <http://www.pwrc.usgs.gov/naamp/>

Protocol

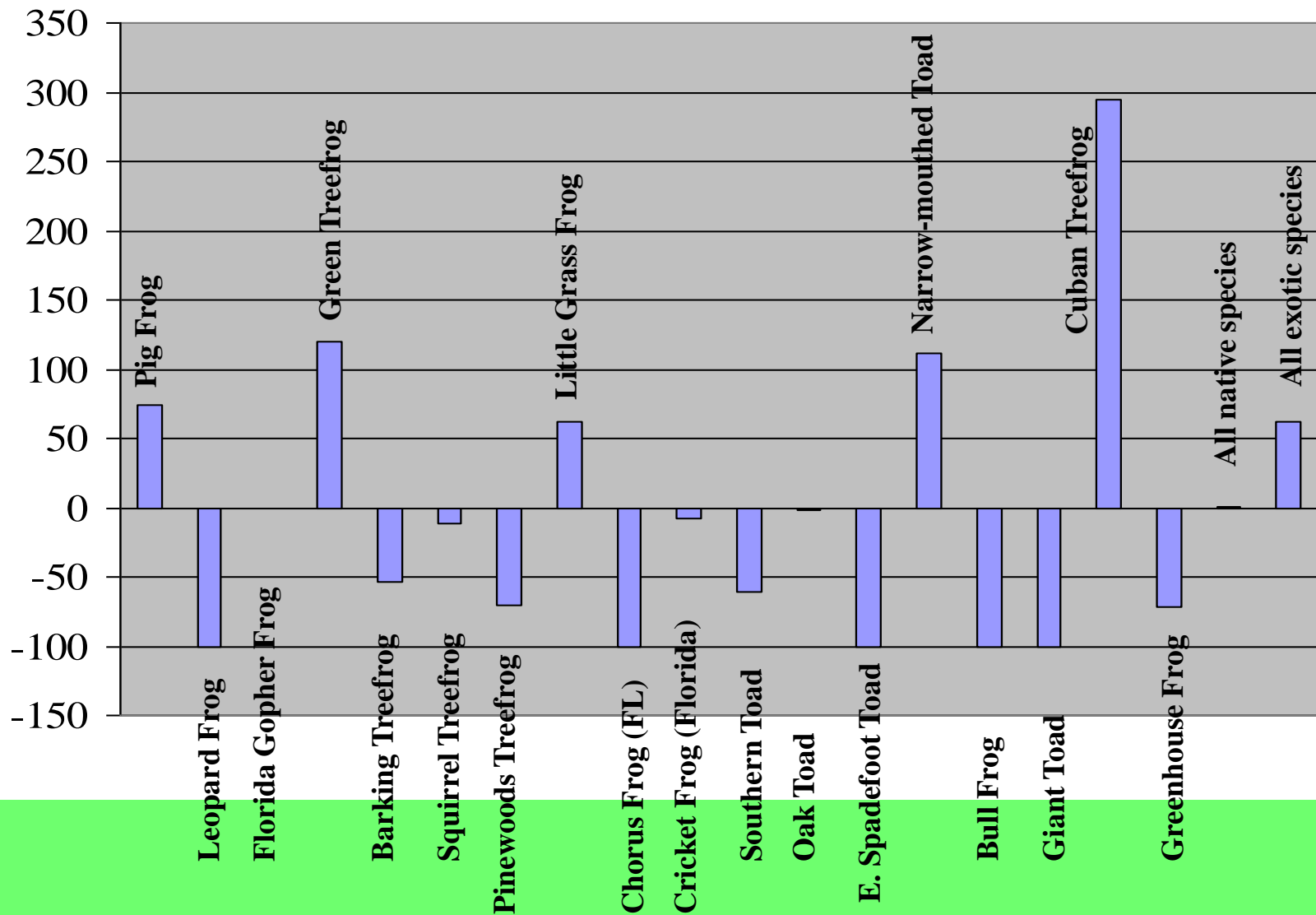
- sampling
- route
- environmental factors
- calls



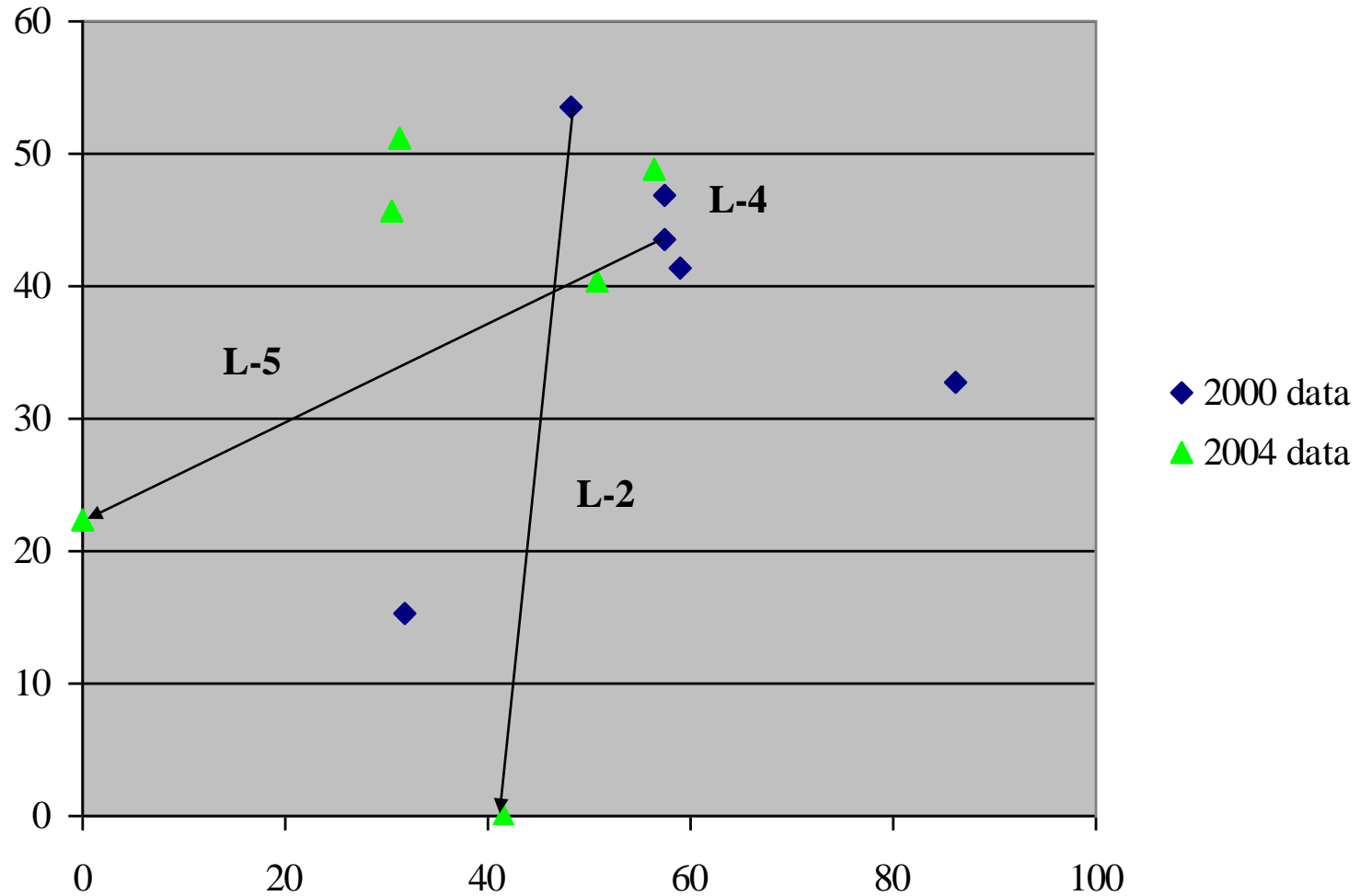
Percent change in average call intensity

2000 and 2004

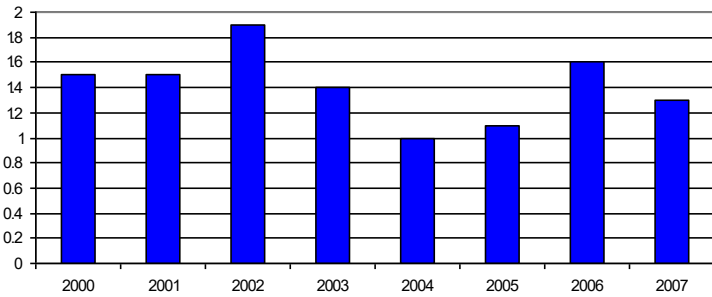
Routes CH-1, L-2, L-4, L-5, L-6, L-7



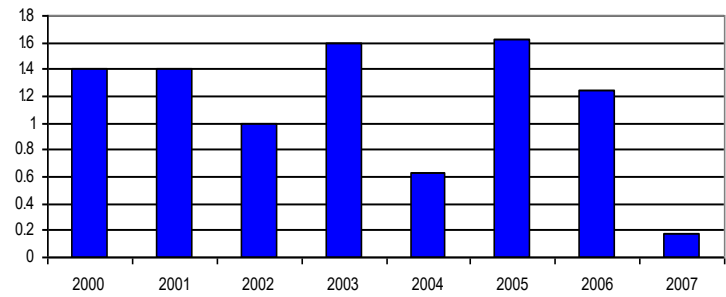
Polar Ordination of 2000 and 2004 data



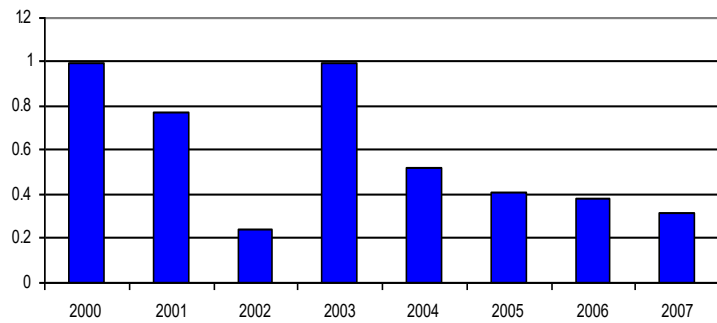
Squirrel TF Relative Abundance 8 routes



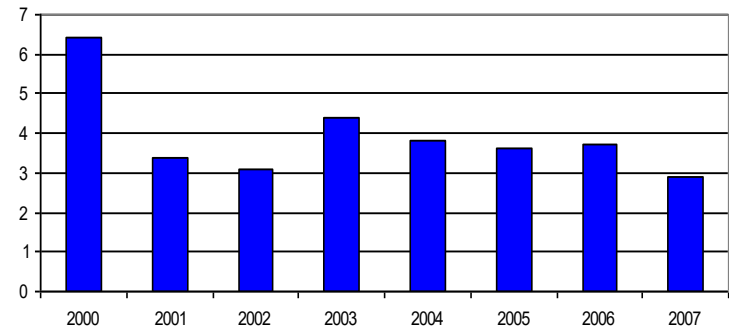
Pinewoods TF Relative Abundance at 8 routes



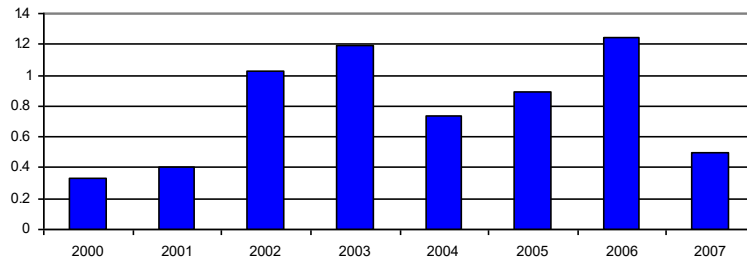
Barking TF Relative Abundance at 8 routes



Green TF Relative Abundance 8 Routes

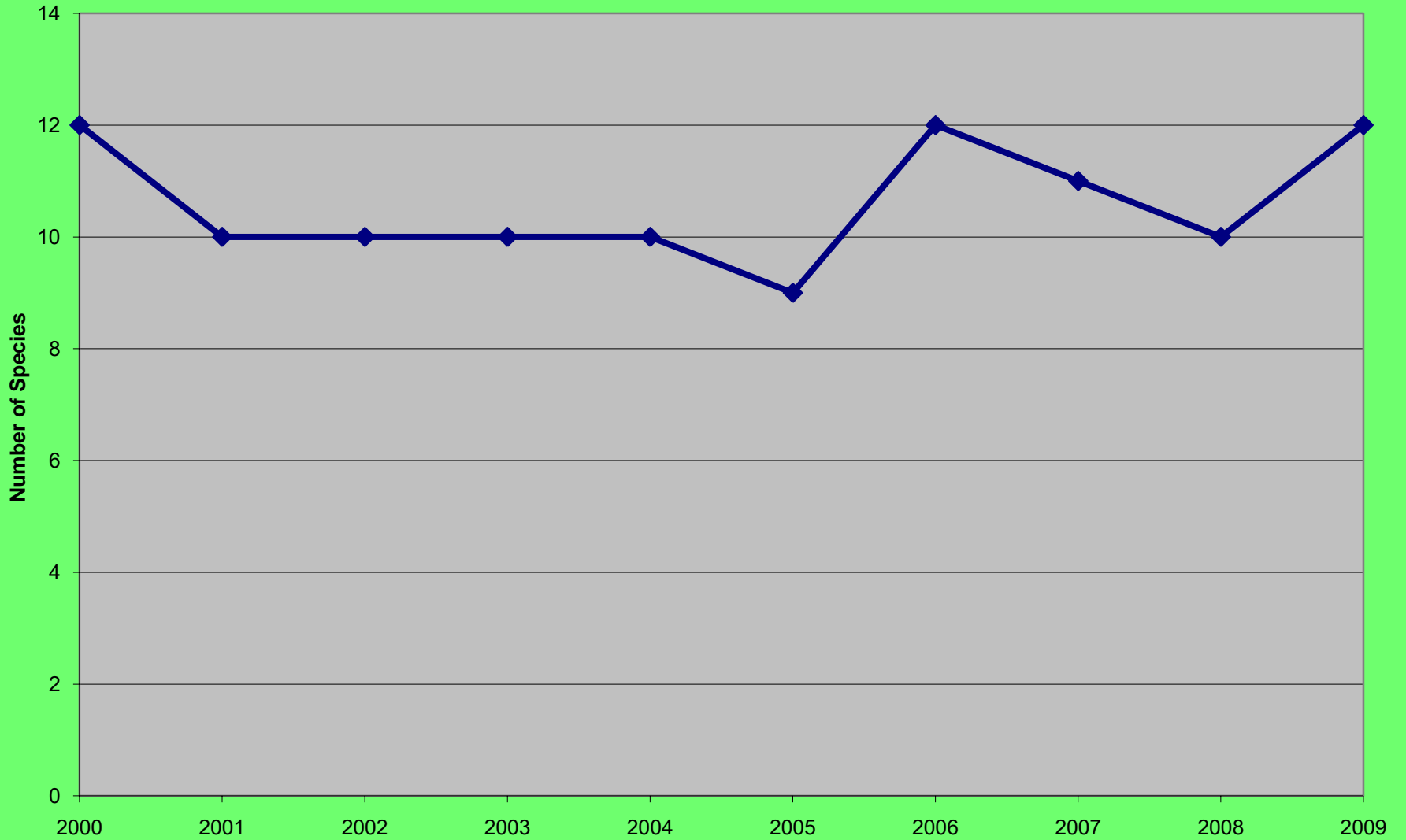


Cuban TF Relative Abundance 8 routes

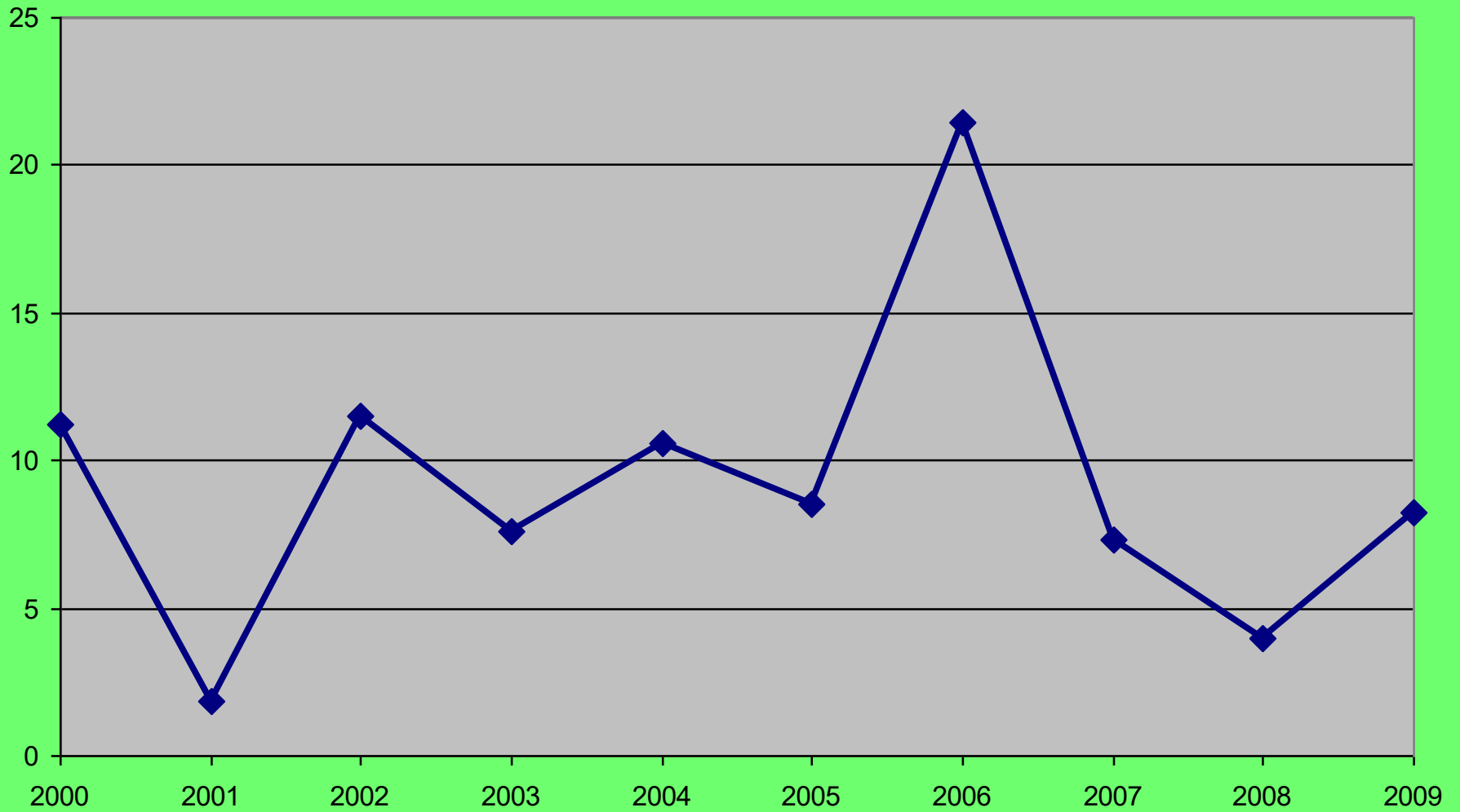




Species Richness Route 7

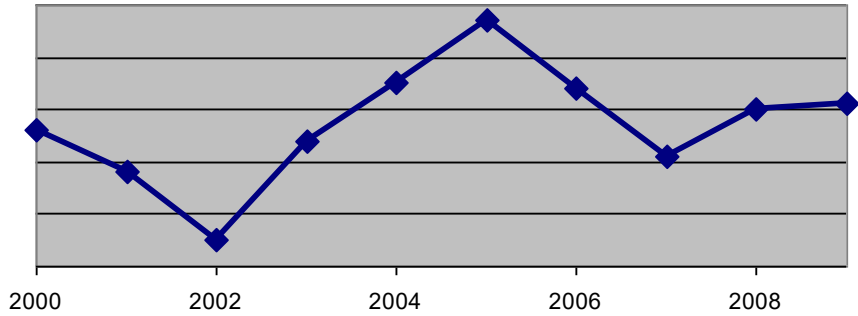


Percent of total relative abundance due to exotics

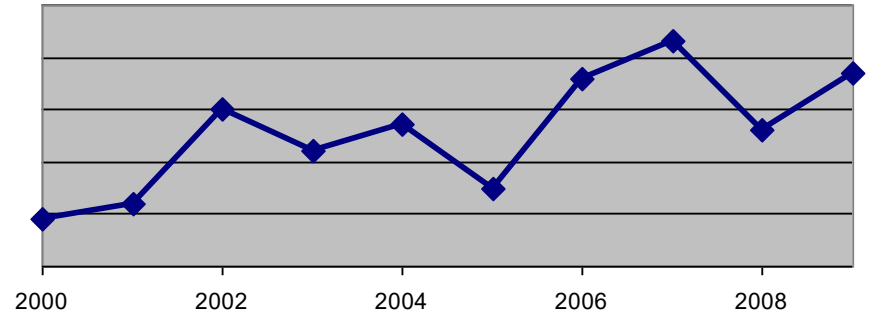


Route 7 2000 - 2009

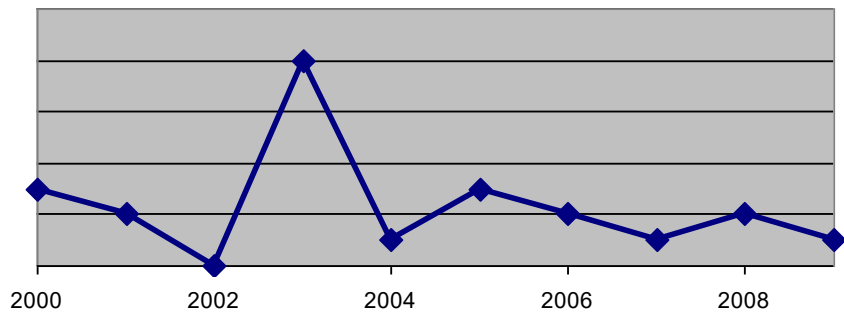
Cricket Frog



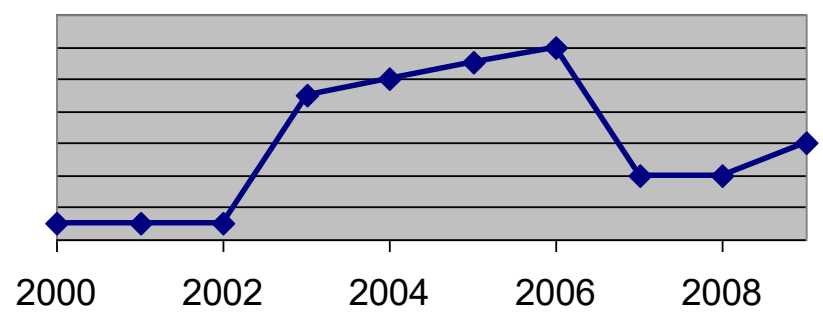
Oak Toad



Barking Treefrog



Cuban Treefrog



Summary

- Frog populations fluctuate
- Overall frog populations are doing OK
- BUT we are documenting loss of species from some place on the Indscape
- Developing a site decreases the frog community
- Increase in exotic frogs
- Need for on-going monitoring
- Need for volunteer help

Frog Call Quiz



Click here



Frog Call Quiz



Oak Toad



Click here



Frog Call Quiz



Oak Toad



Cricket Frog



← Click here



Frog Call Quiz



Oak Toad



Cricket Frog



Cuban Treefrog



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Frog Call Quiz



Oak Toad



Cricket Frog



Cuban Treefrog



Squirrel Treefrog



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Frog Call Quiz



Oak Toad



Cricket Frog



Cuban Treefrog



Squirrel Treefrog



Narrow-mouthed Frog