



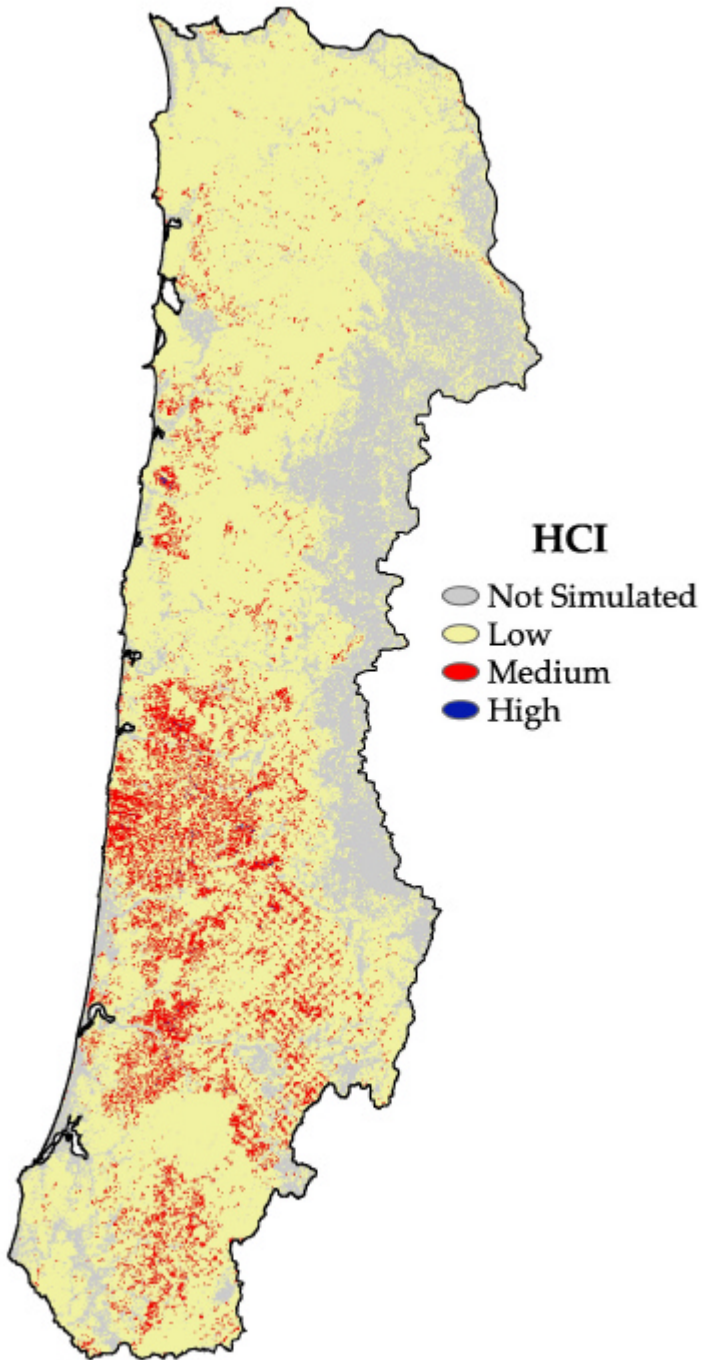
Trends in Biodiversity Indicators



Significant Technical Help:

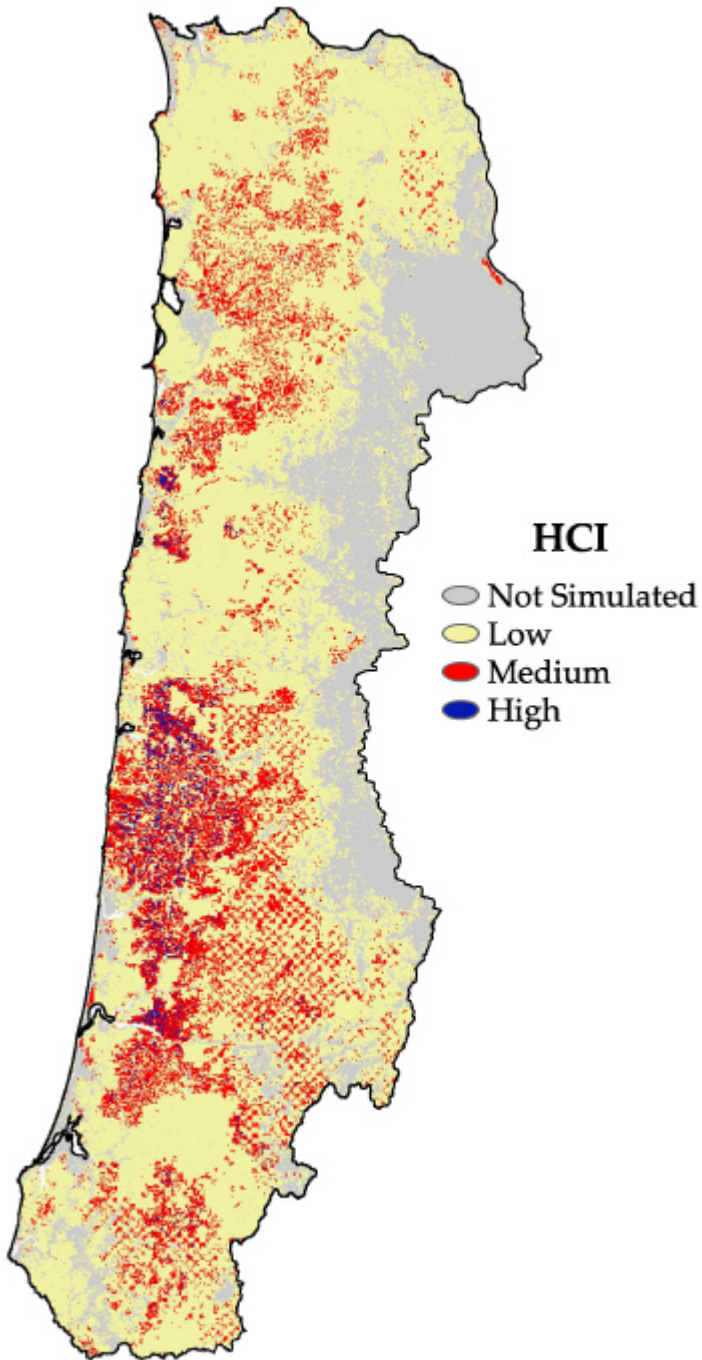
- Keith Olsen
- Etsuko Nonaka
- Rob Pabst
- Rebecca Kennedy
- Jonathan Brooks
- Mike McGrath
- Matt Gregory

Northern Spotted Owl 1996

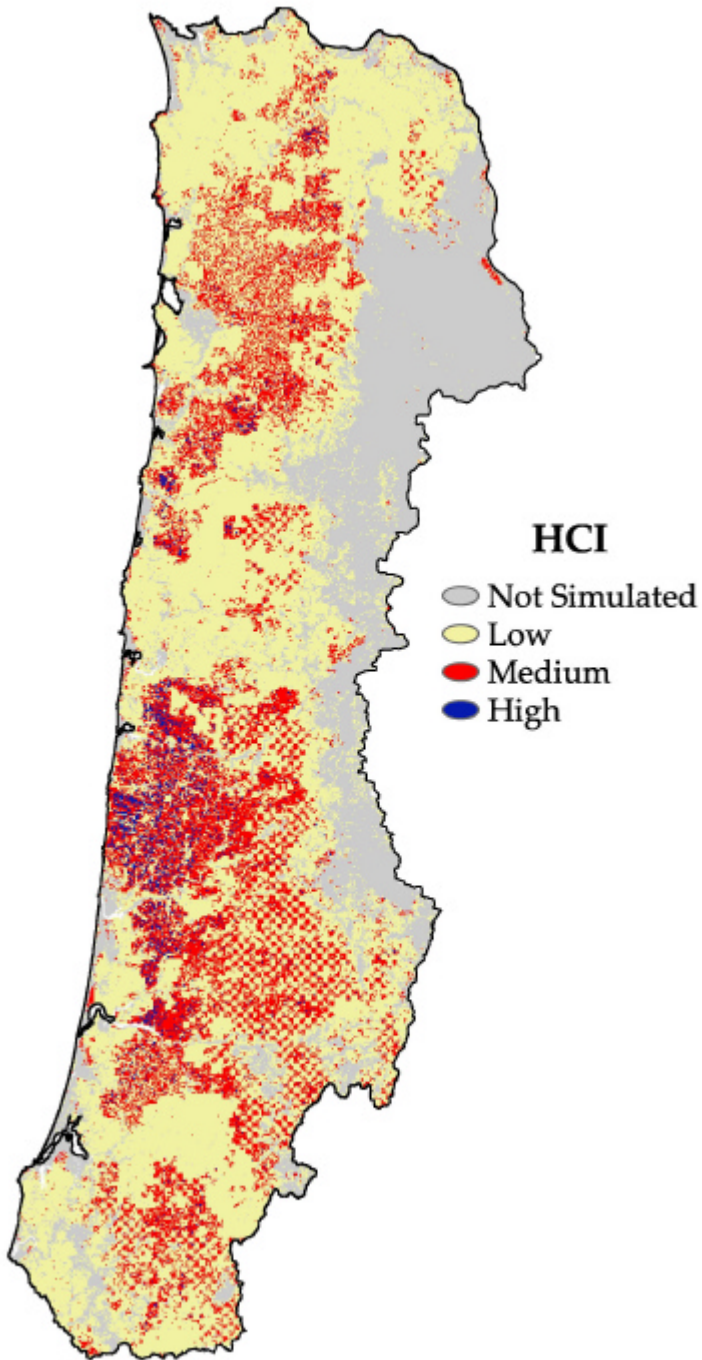


Northern Spotted Owl

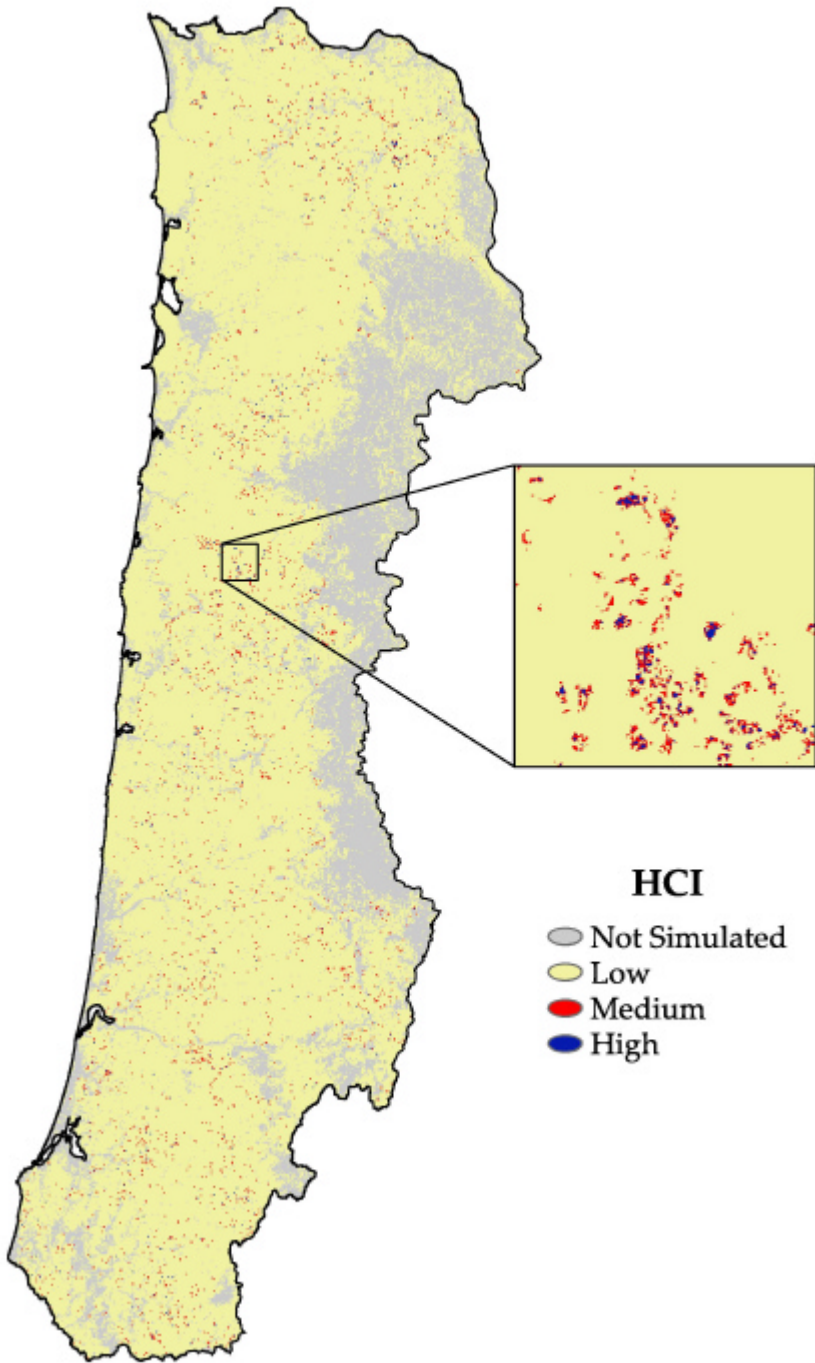
Base Policy - 2046



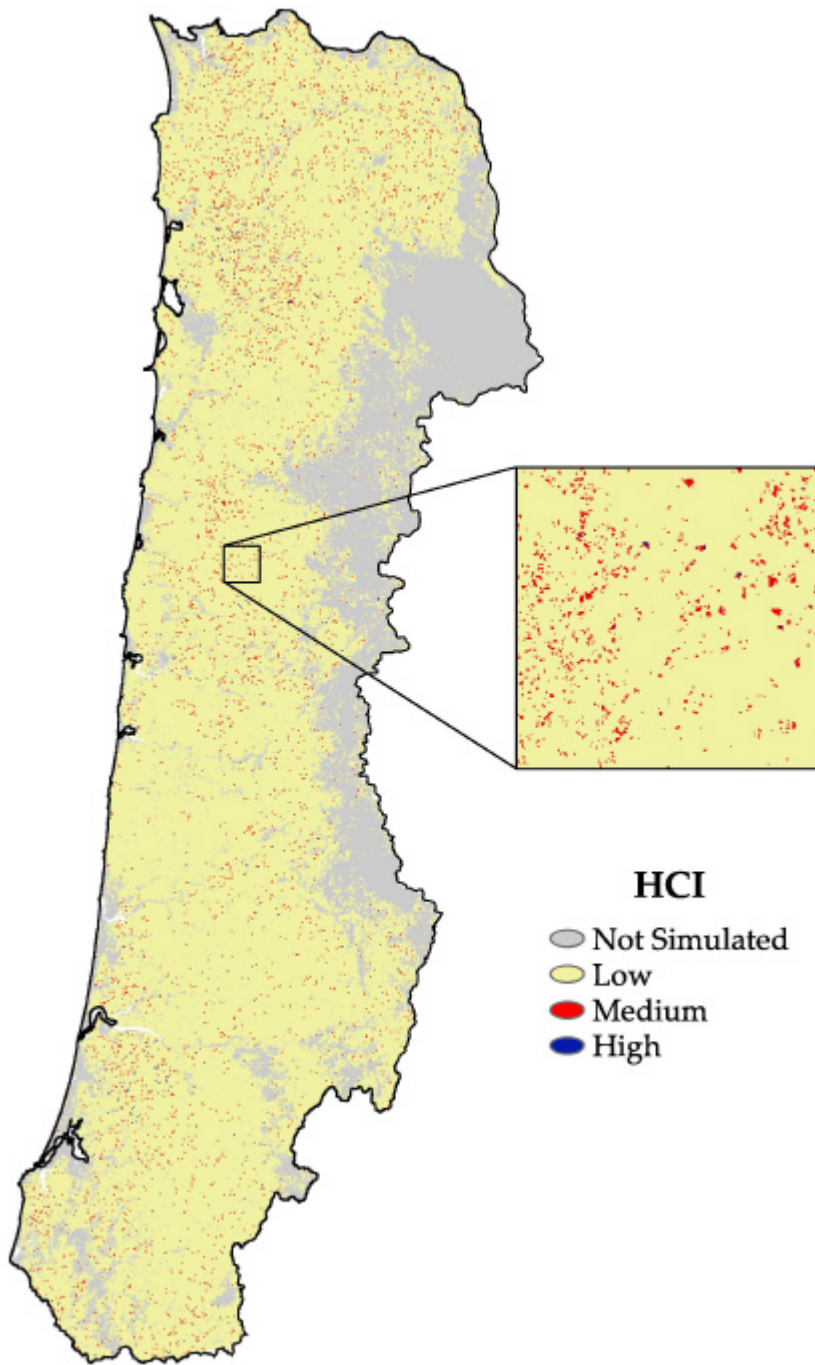
Northern Spotted Owl Base Policy - 2096



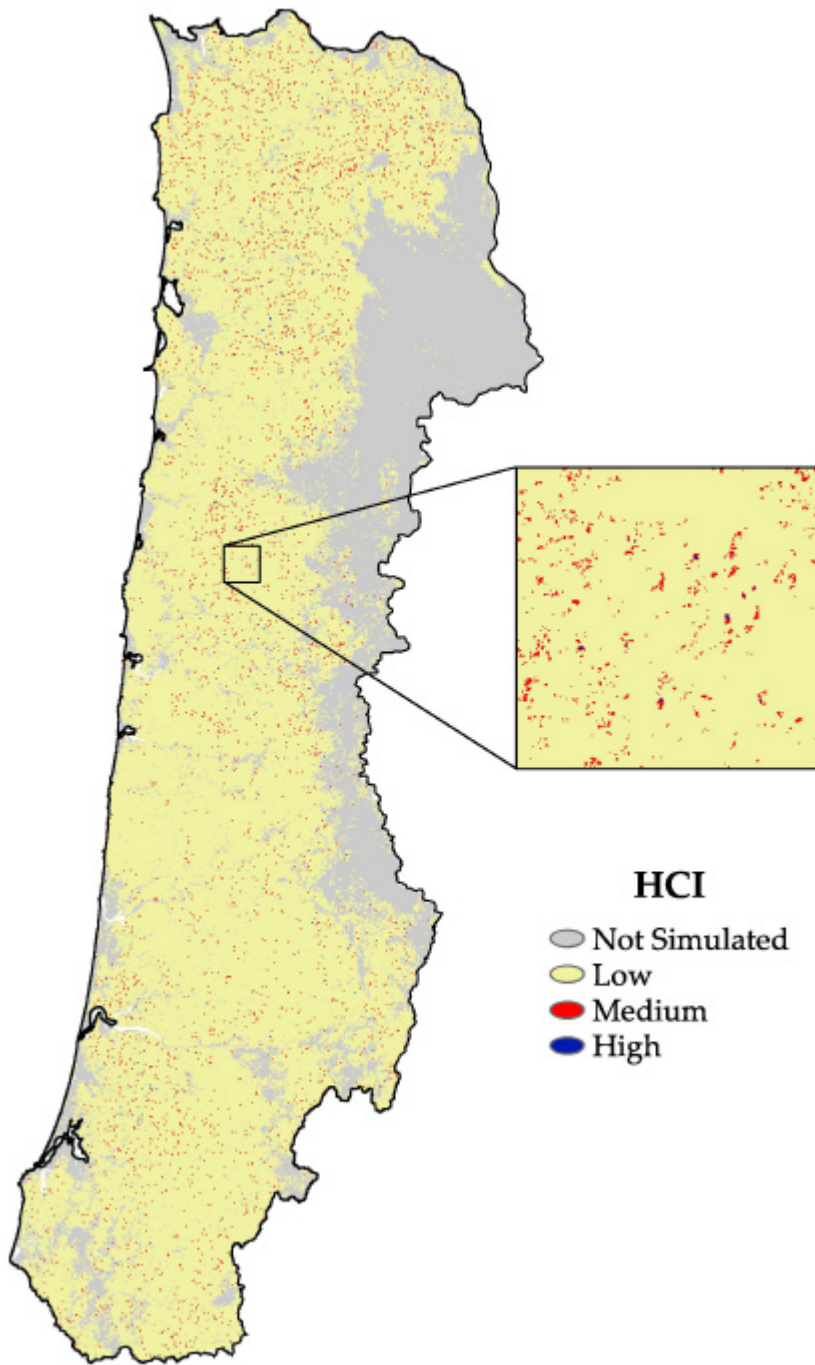
Western Bluebird 1996



Western Bluebird Base Policy - 2046

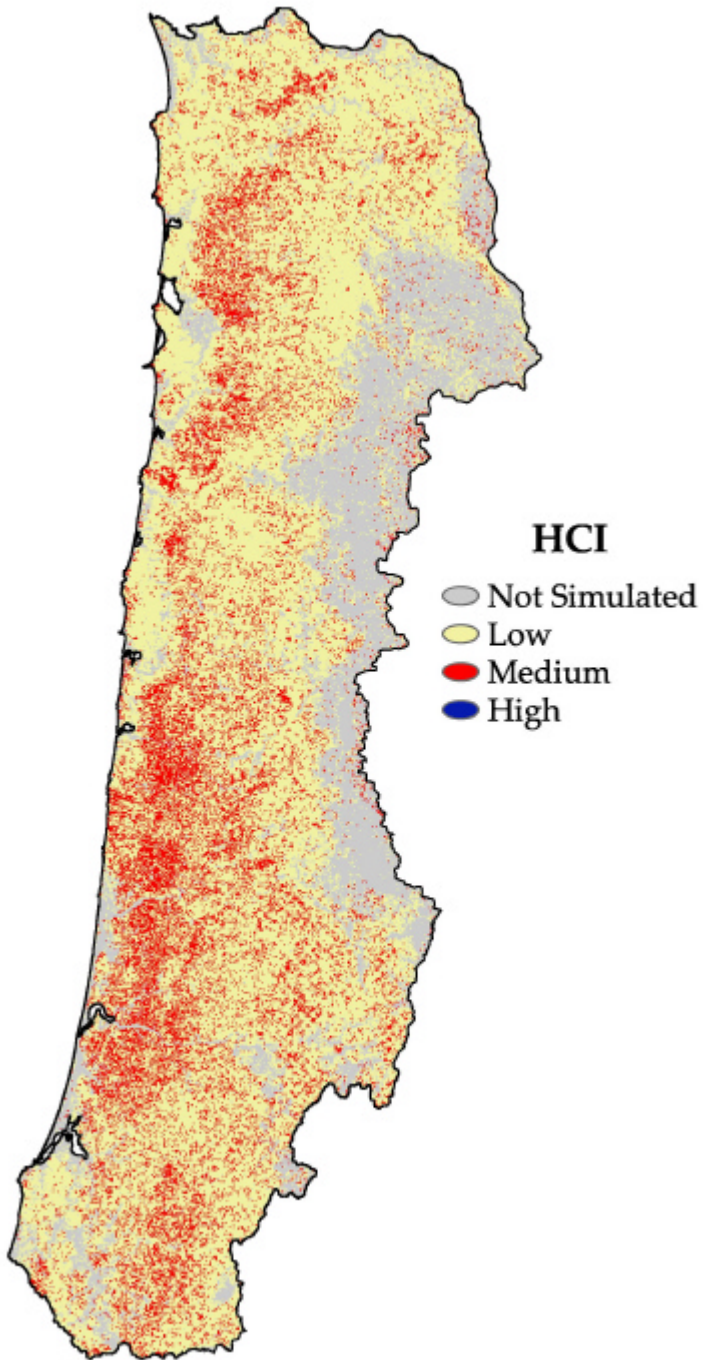


Western Bluebird Base Policy - 2006

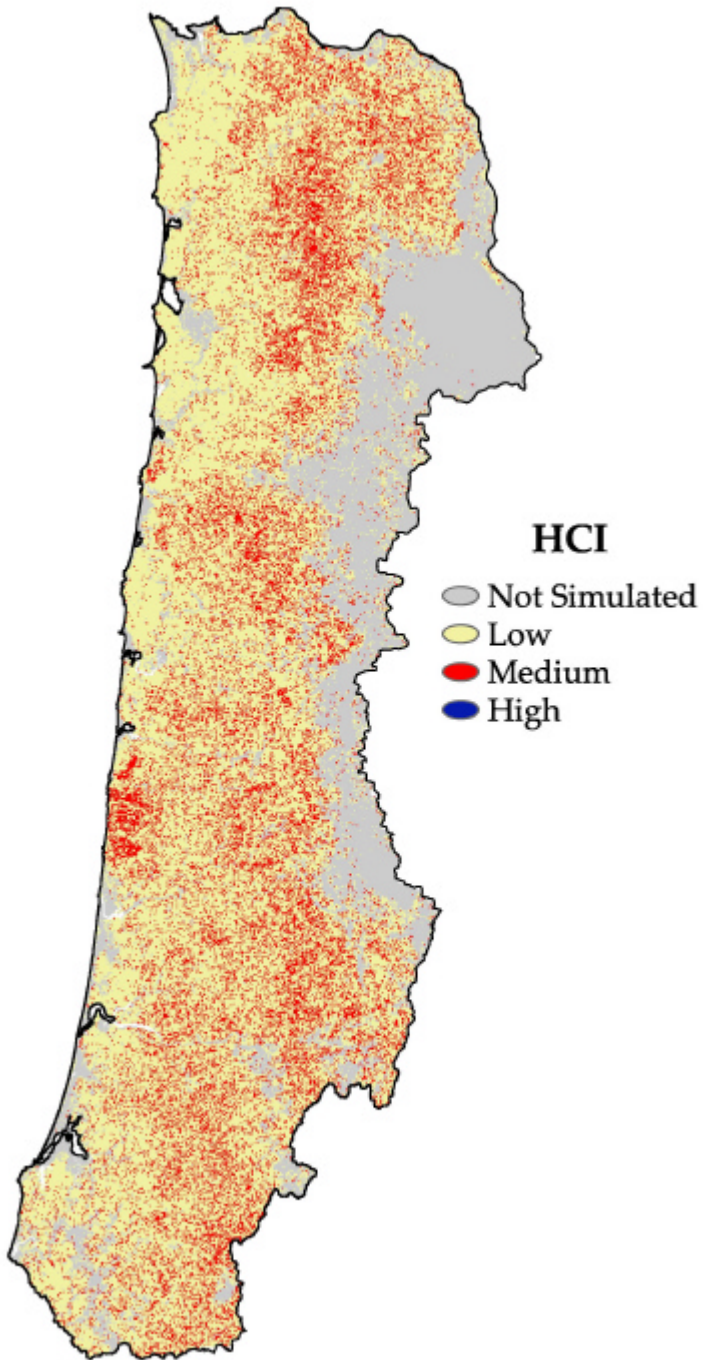


Olive-Sided Flycatcher

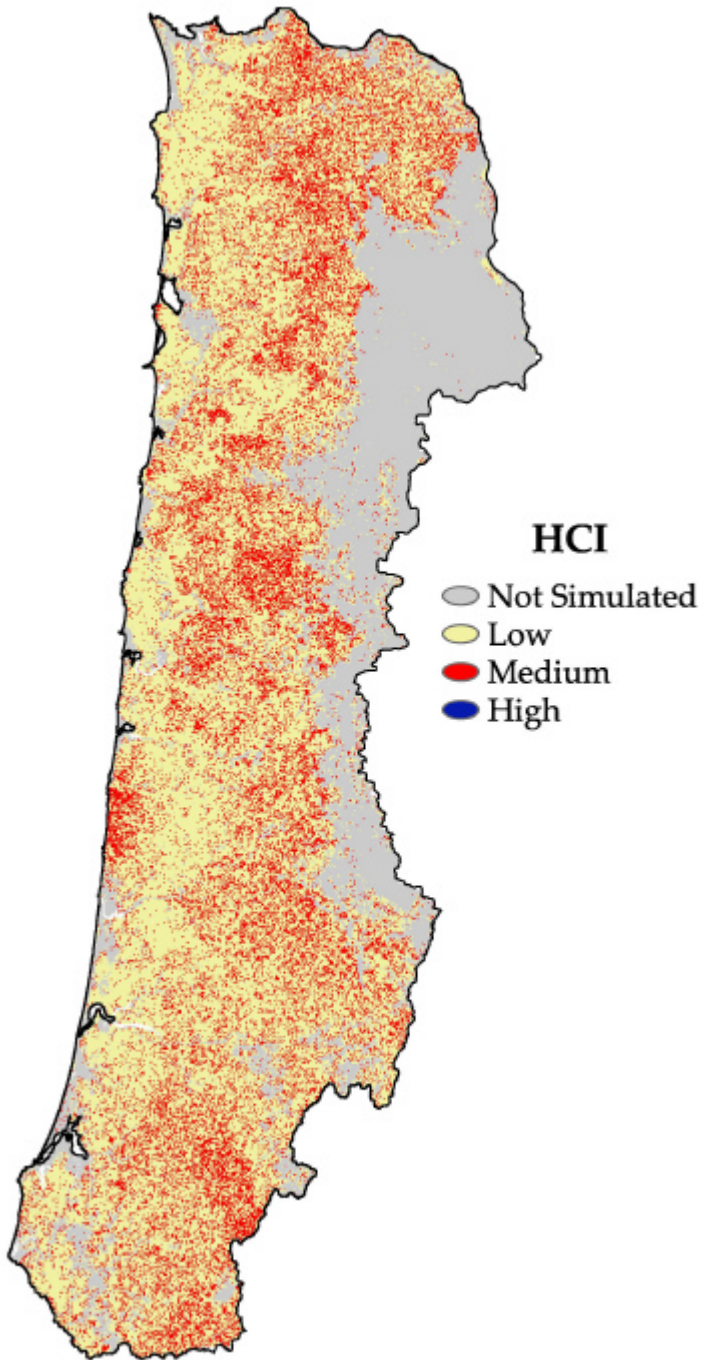
1996



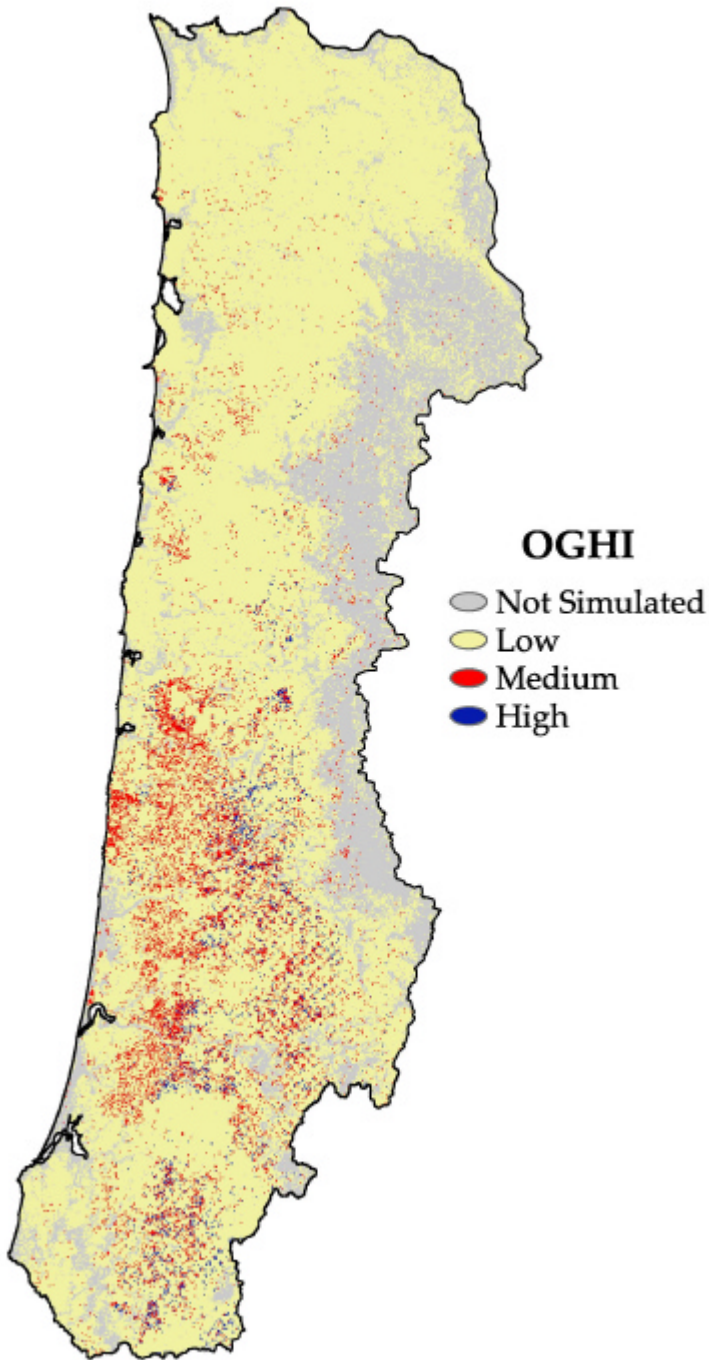
Olive-Sided Flycatcher Base Policy - 2046



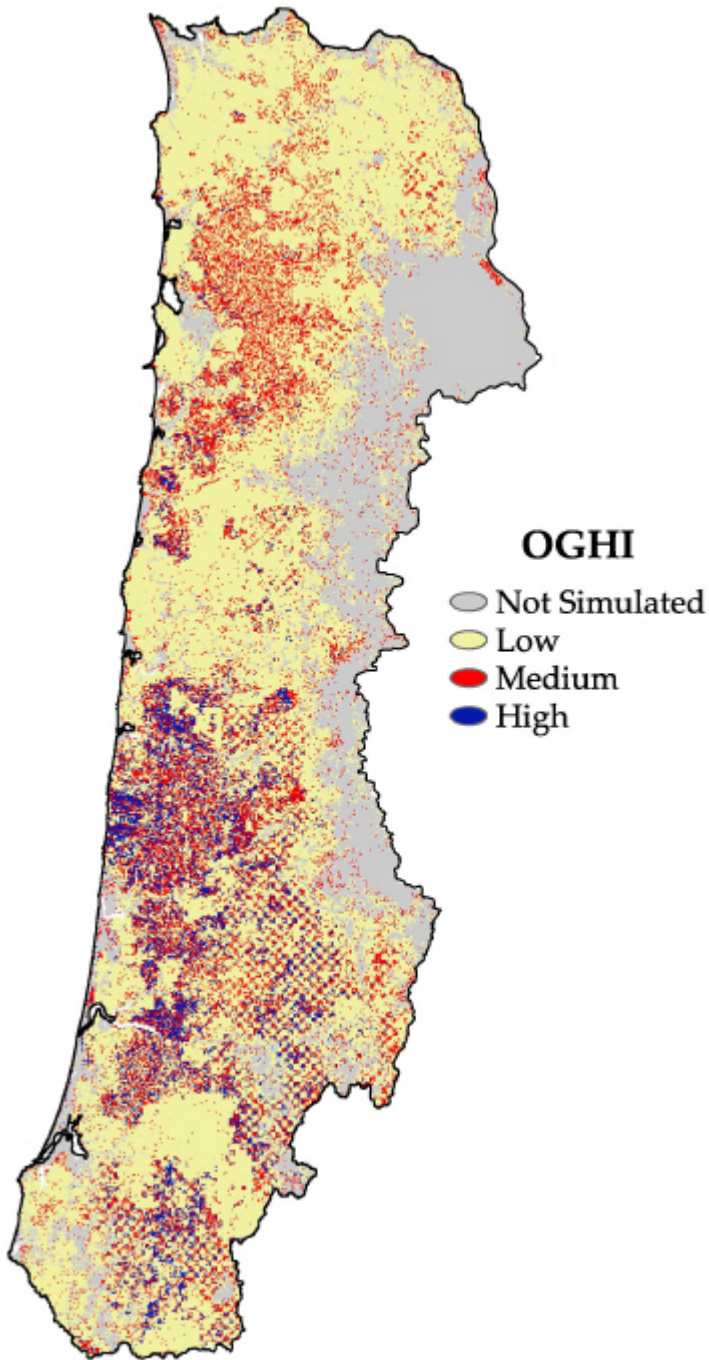
Olive-Sided Flycatcher Base Policy - 2096



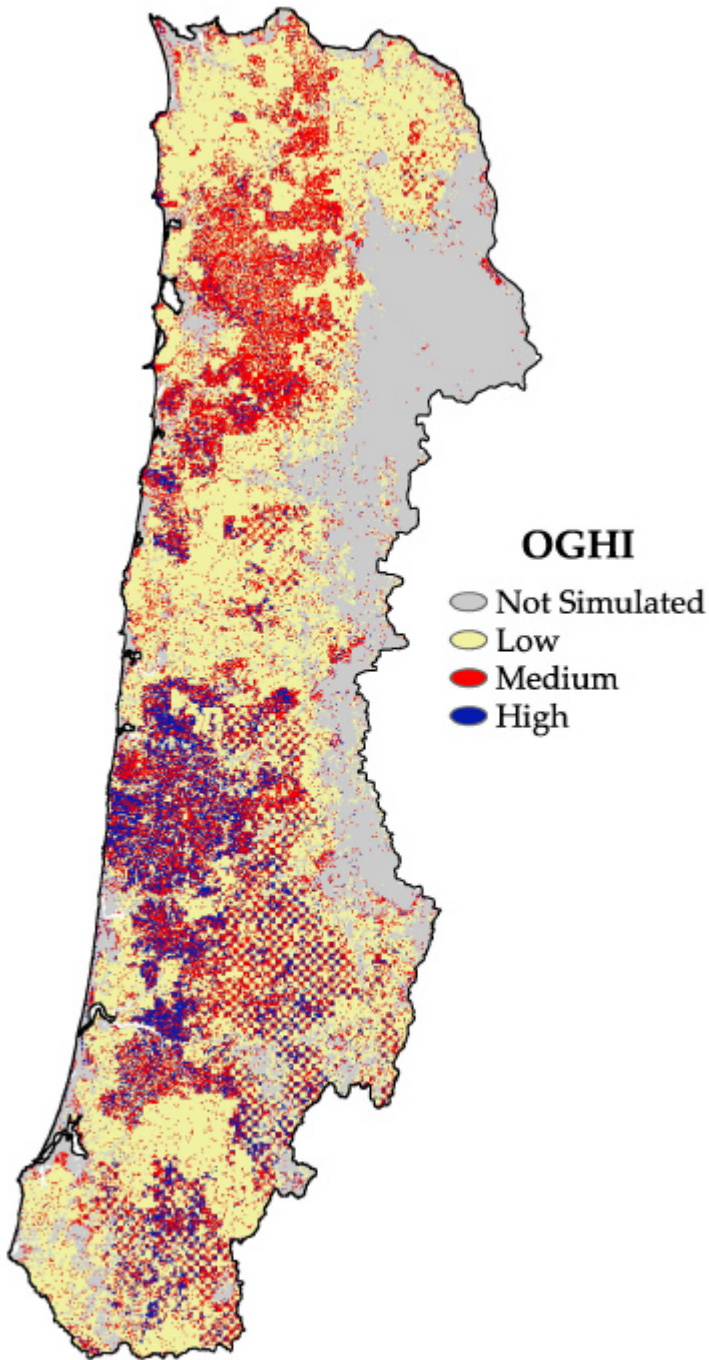
Old-Growth Habitat 1996



Old Growth Habitat Base Policy - 2046



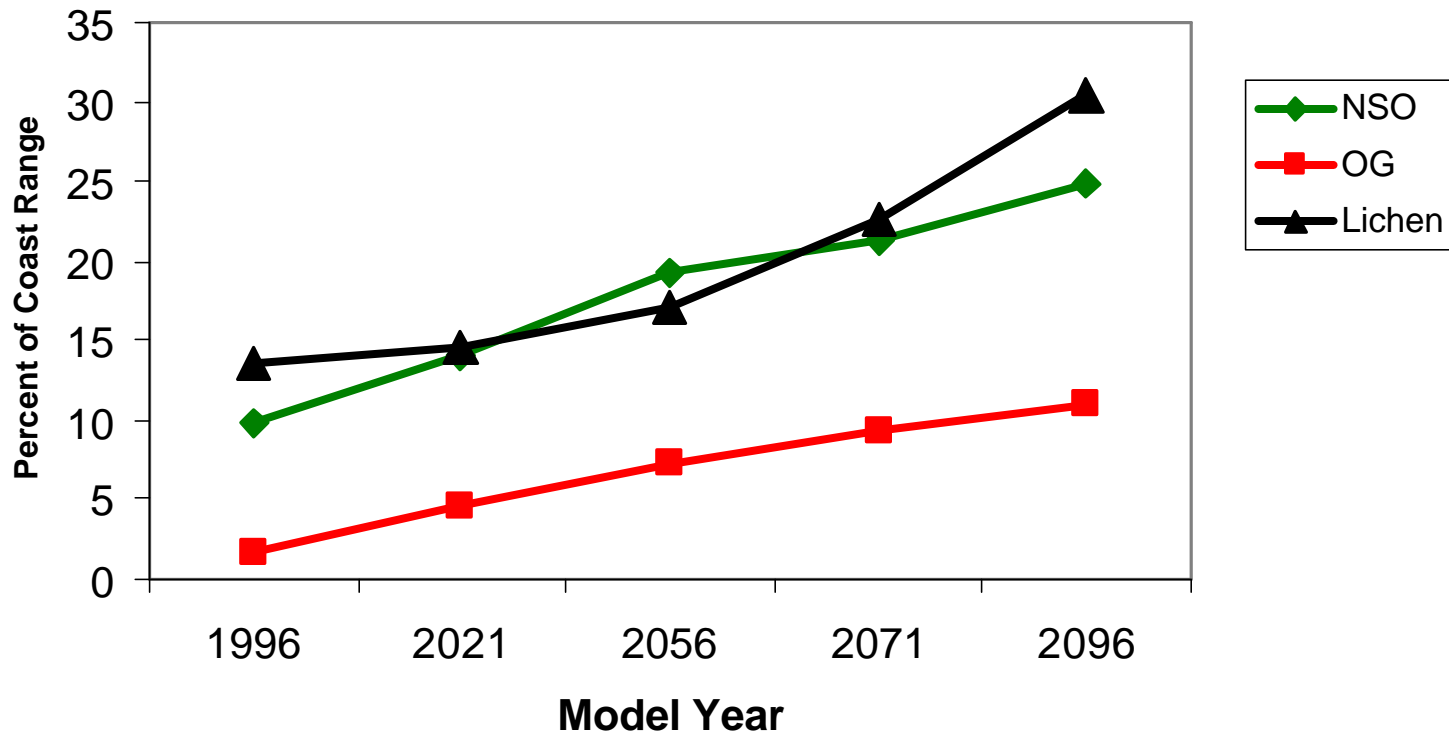
Old Growth Habitat Base Policy - 2096



Change in Indicators for Coast Range for 100 Year Simulation under Base Practice

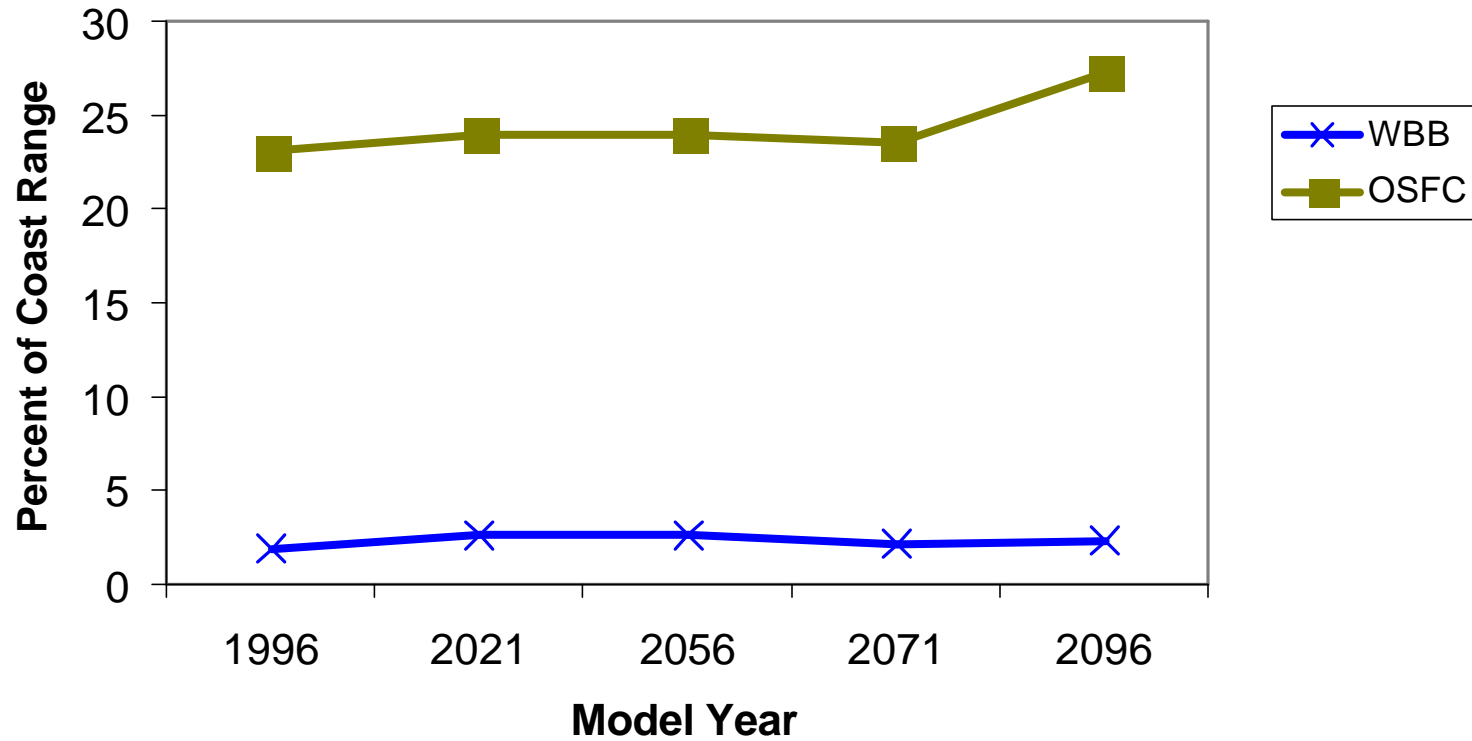


Moderate-High Habitat Quality for Owls, Old Growth, and Canopy Lichen Indices



Change in Percent of Habitat for Coast Range for 100 Year Simulation under Base Practice

Low-Moderate Habitat Quality for Western Bluebird and Olive-sided Flycatcher Indices

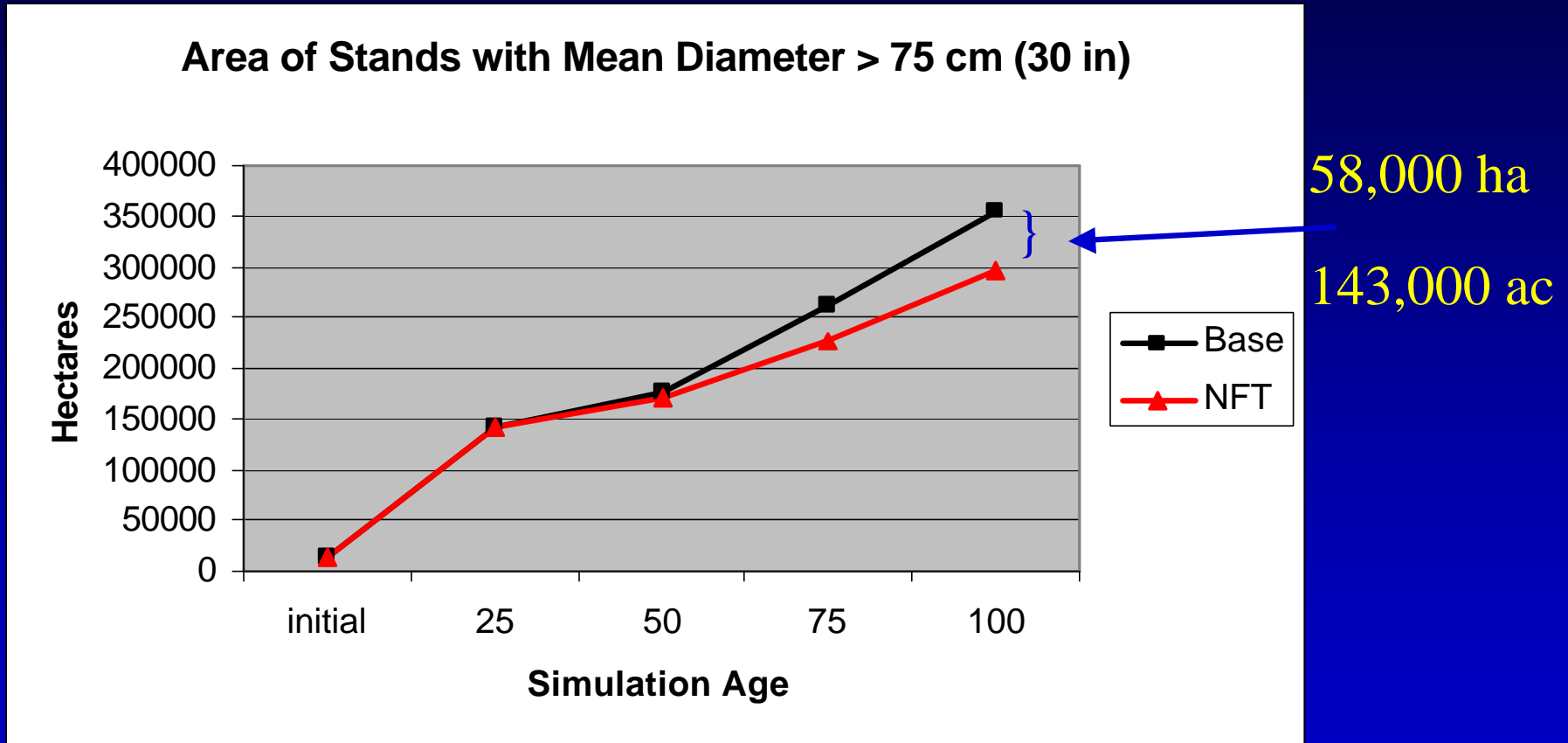


Thinning effects at Landscape Scales

Simulate Federal Lands
With and without Thinning



Comparison of Federal Thin and No-Thin Alternatives Entire Coast Range



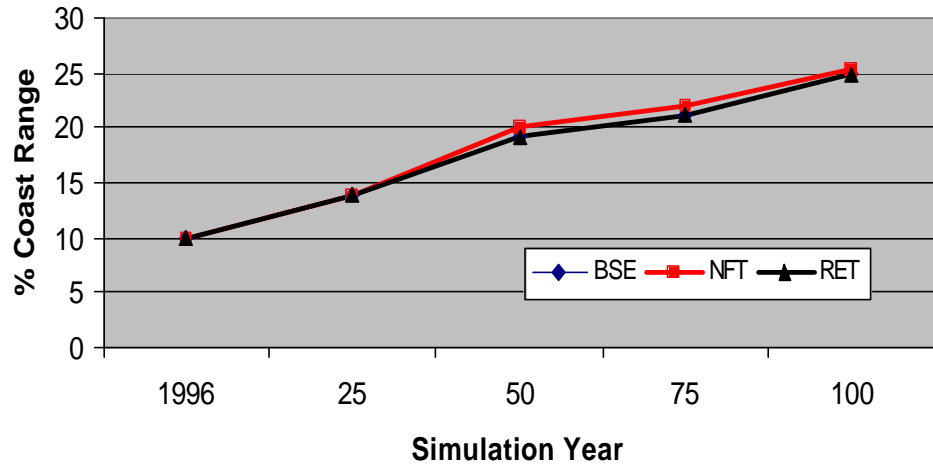
Wildlife Tree Retention Effects

Simulate Increased Retention on Private Lands

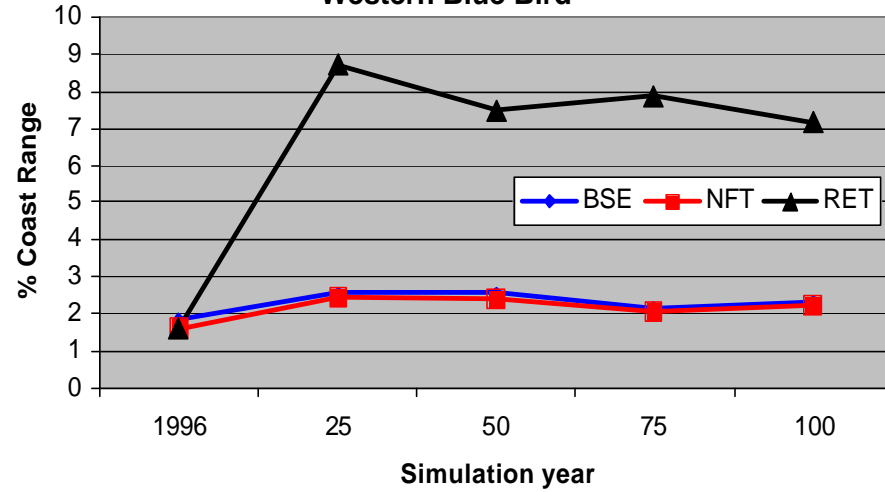


Comparison of Alternatives

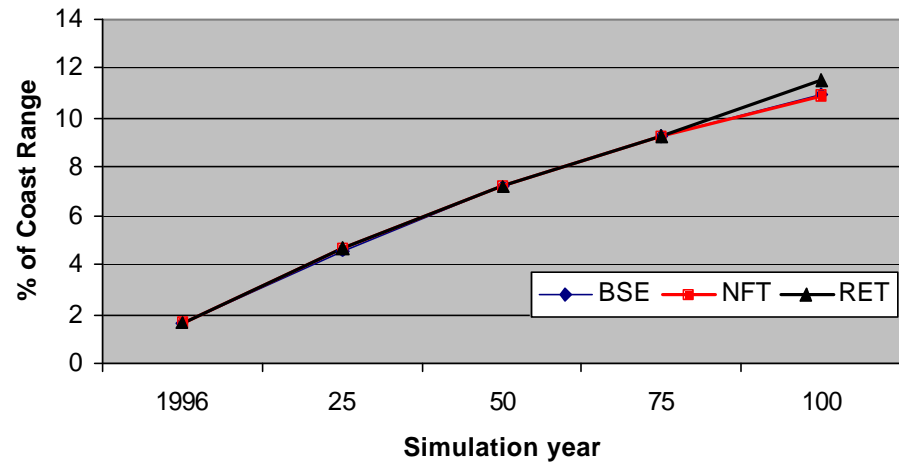
Northern Spotted Owl



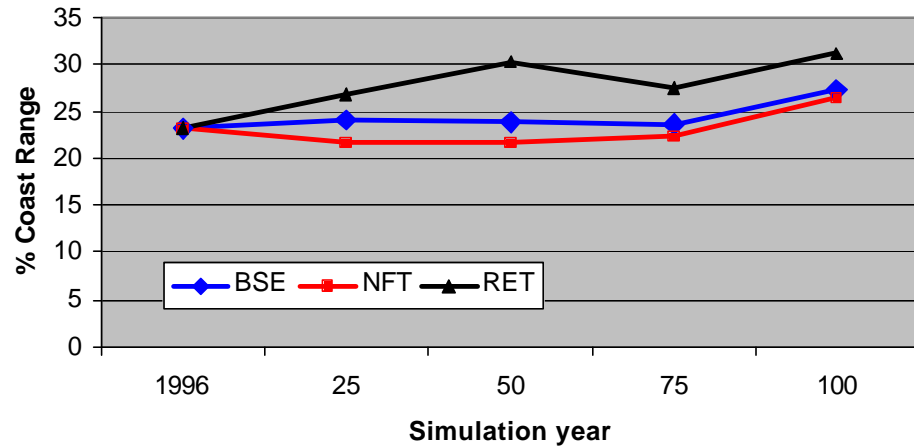
Western Blue Bird



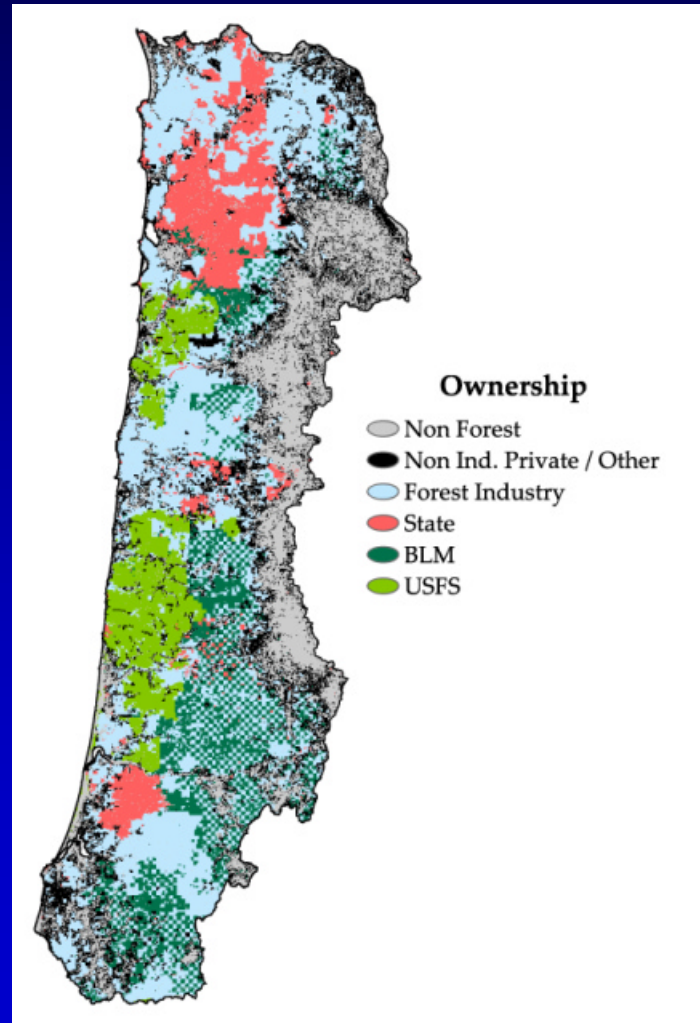
Old Growth Index



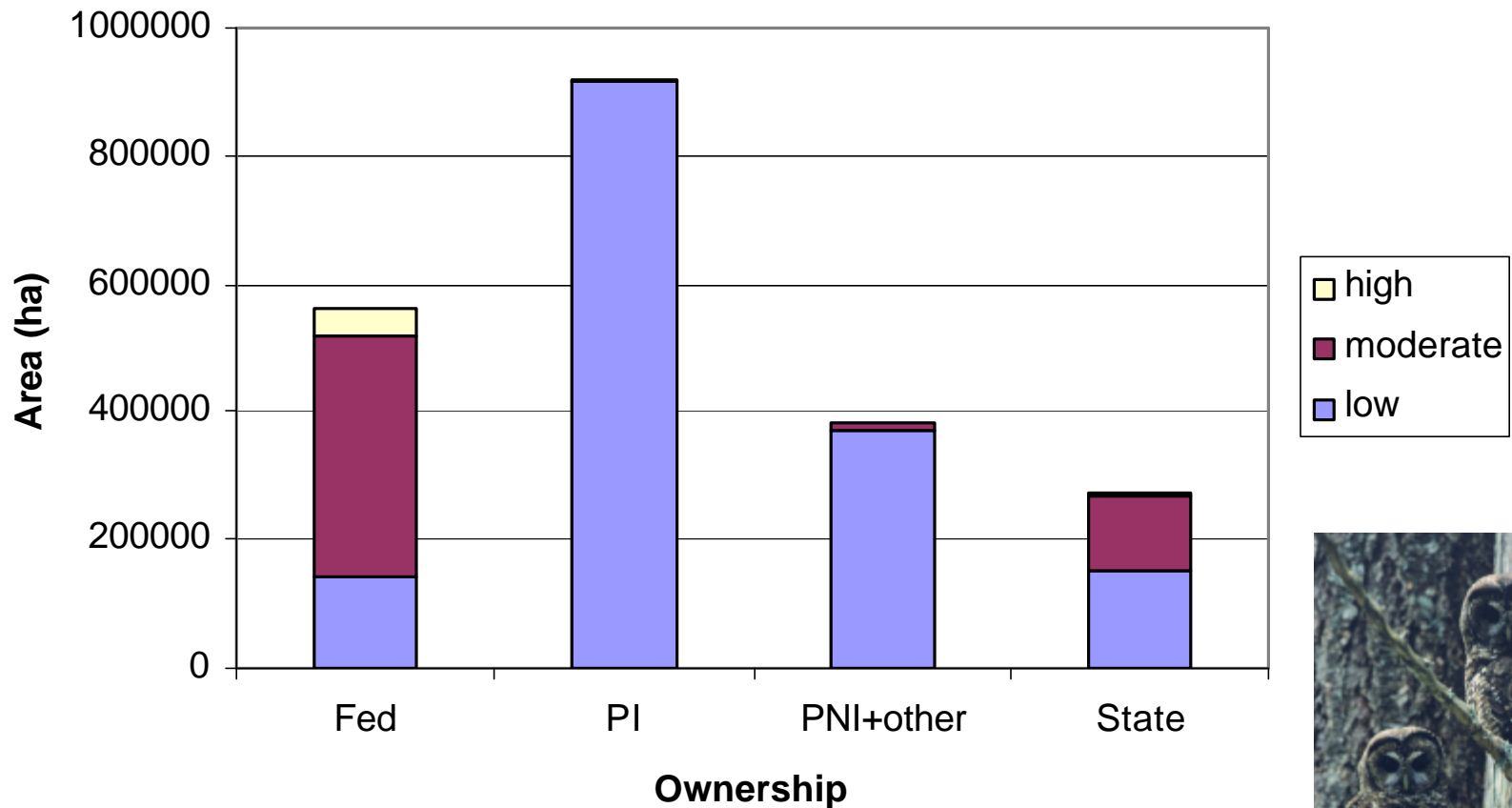
Olive-sided Flycatcher



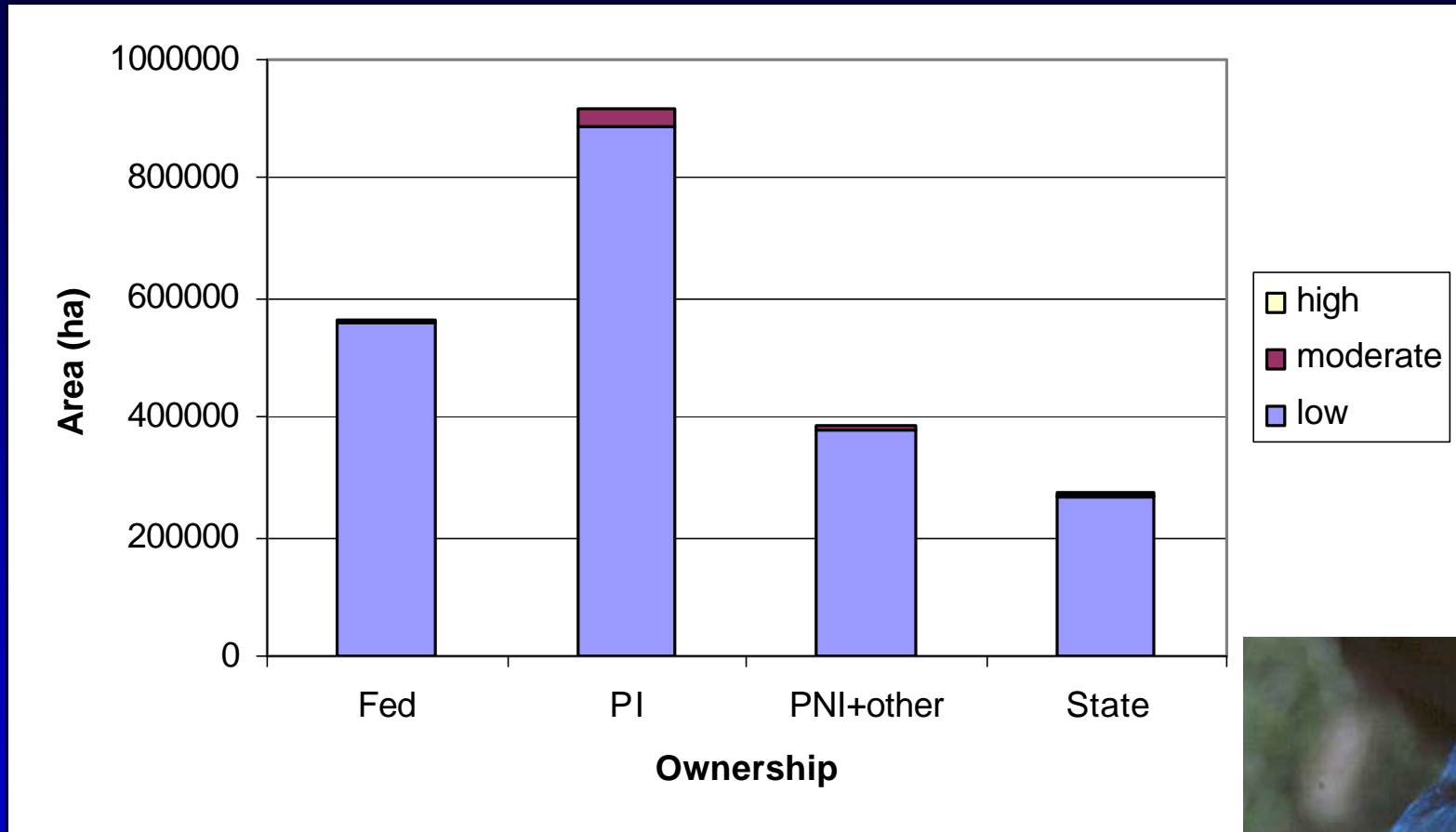
Ownership Patterns



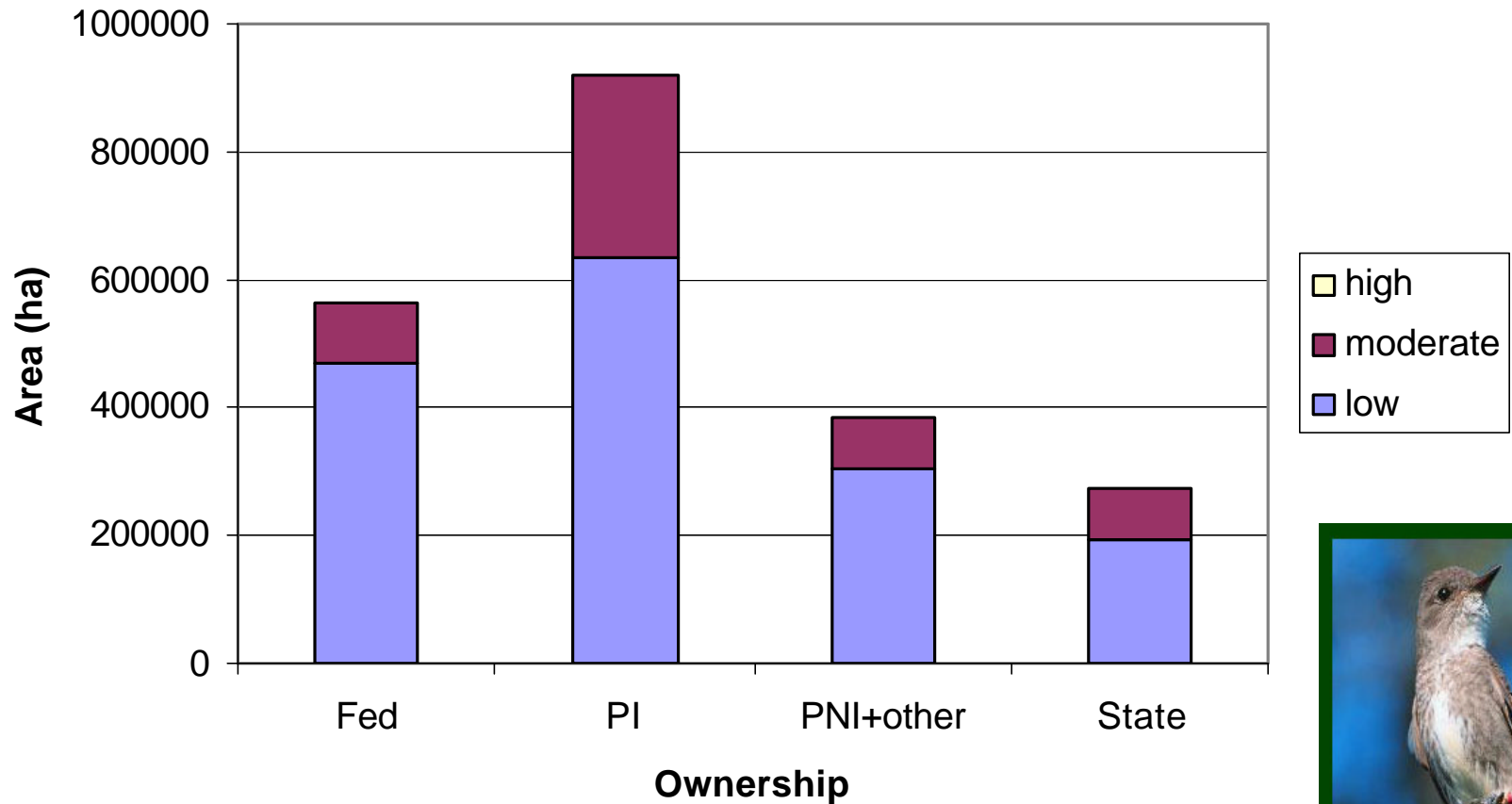
Area of Habitat by Ownership and Quality at 100 years for Base Practice



Area of Bluebird Habitat by Ownership and Quality at 100 years for Base Practice

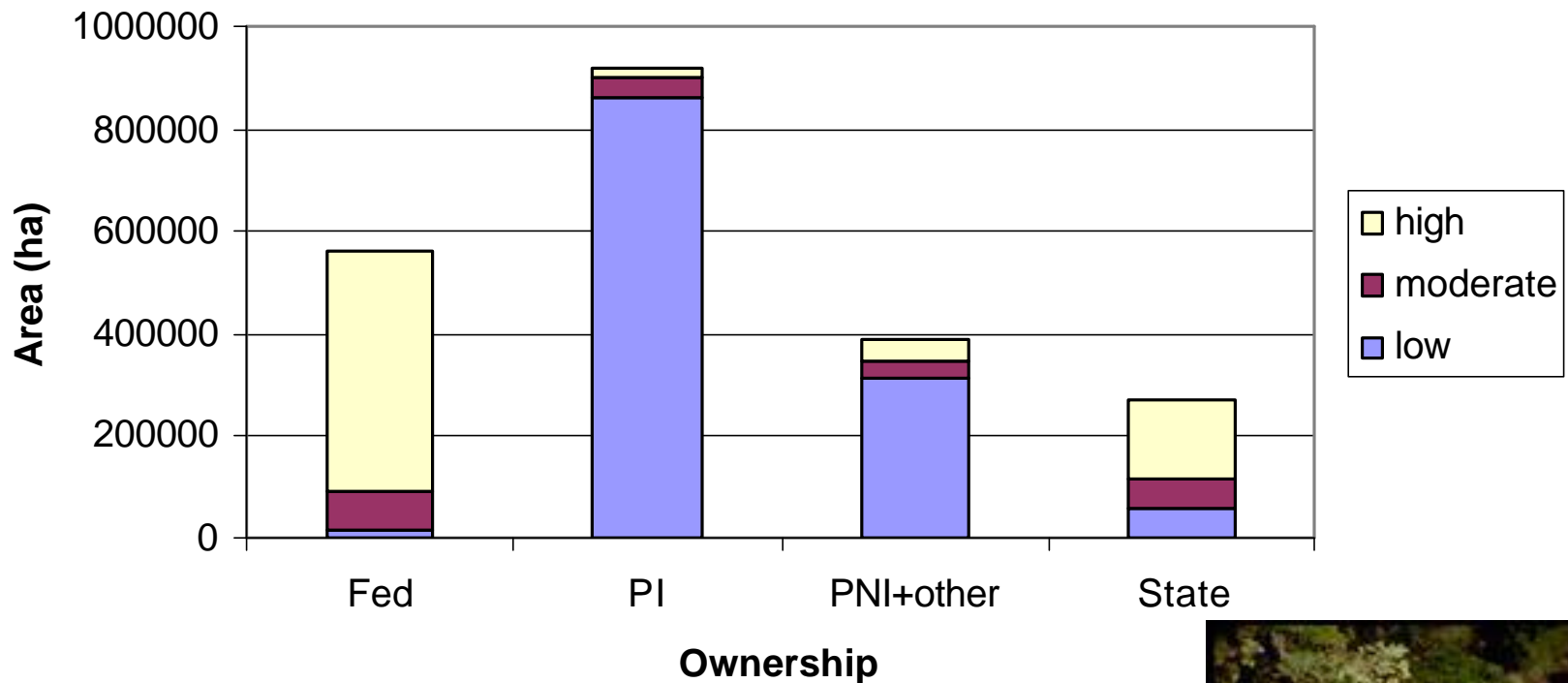


Area of Flycatcher Habitat by Ownership and Quality at 100 years for Base Practice

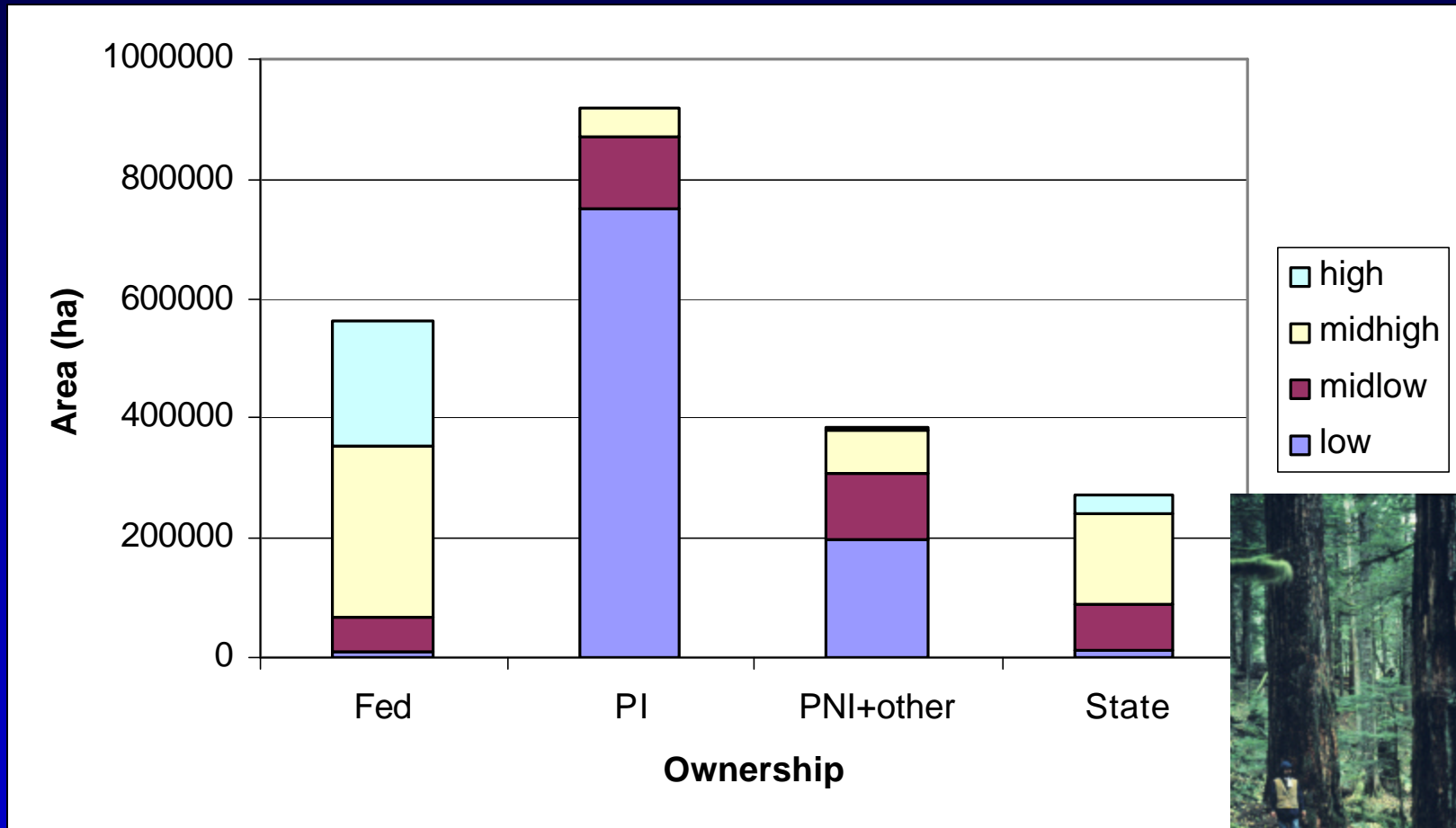


Area of Habitat by Ownership and Quality at 100 years for Base Practice

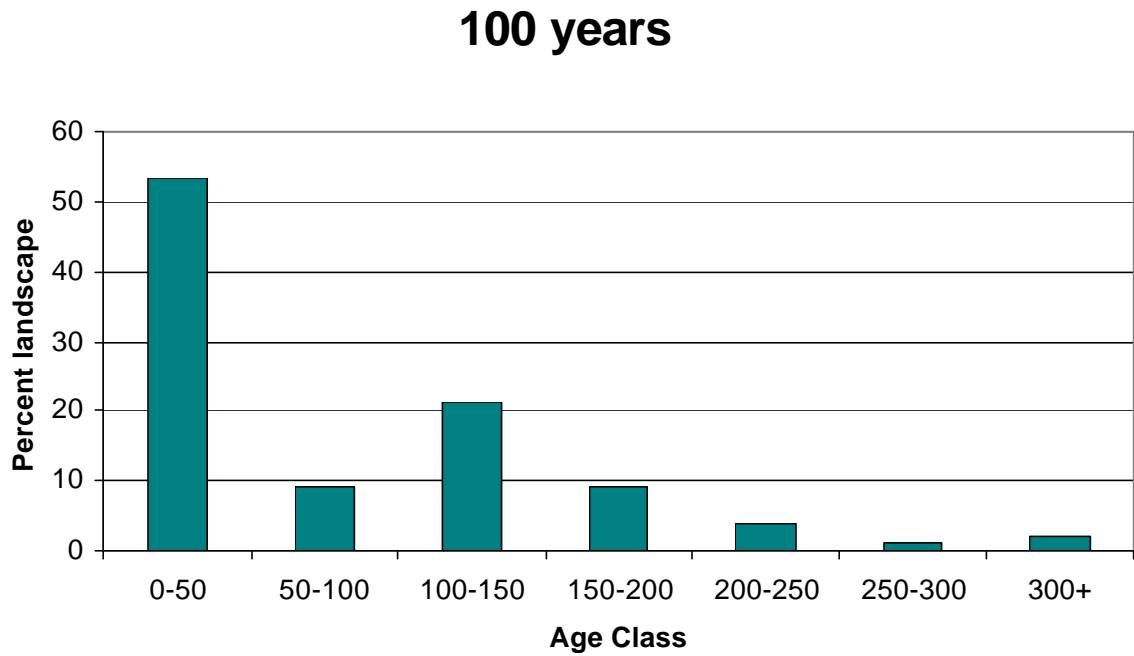
Canopy Lichen Potential



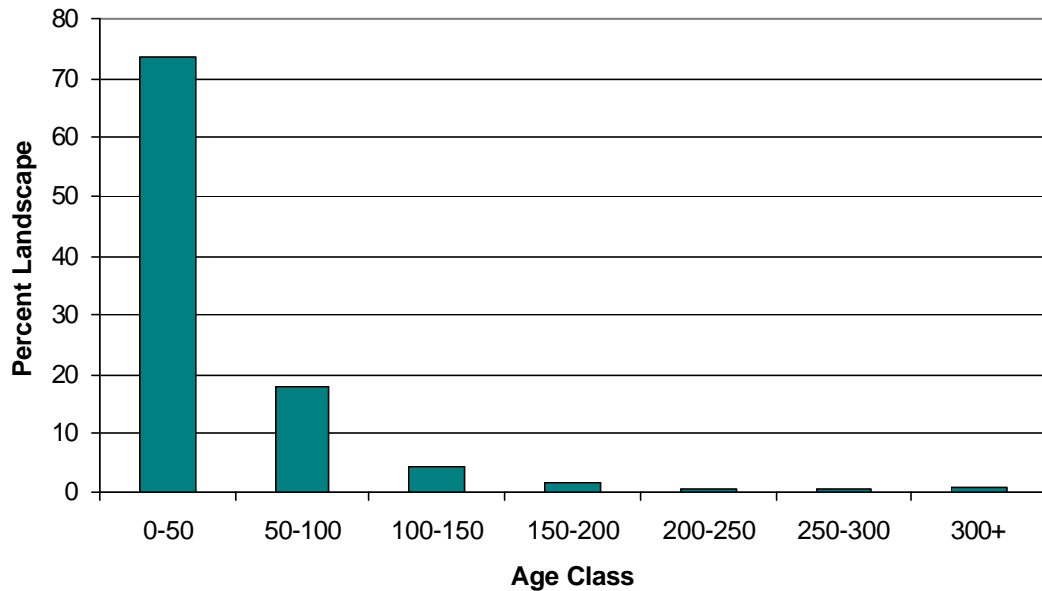
Area of Old Growth Habitat by Ownership and Quality at 100 years for Base Practice



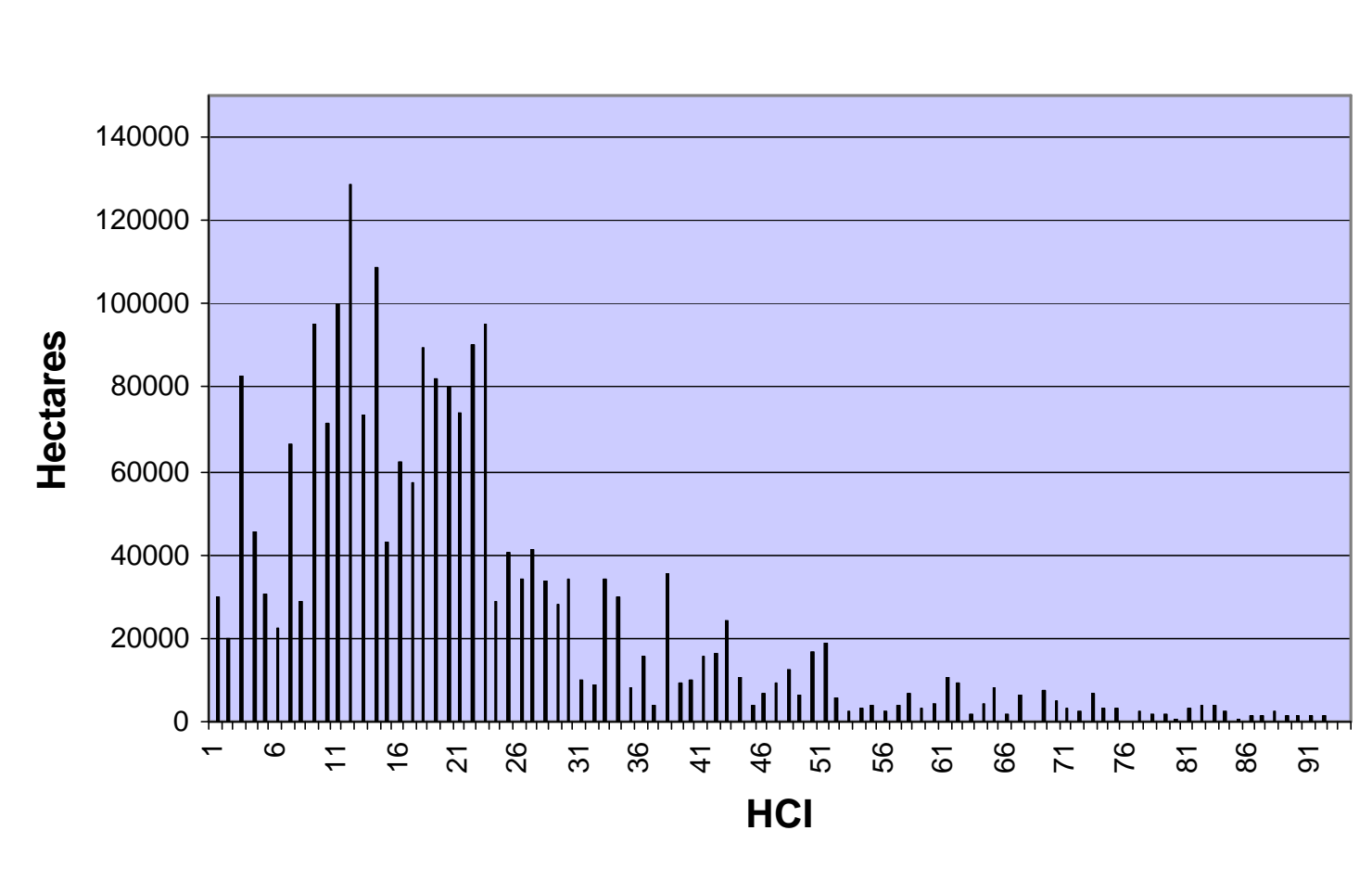
Age Class Distribution Current and After 100 years-- Base Practice



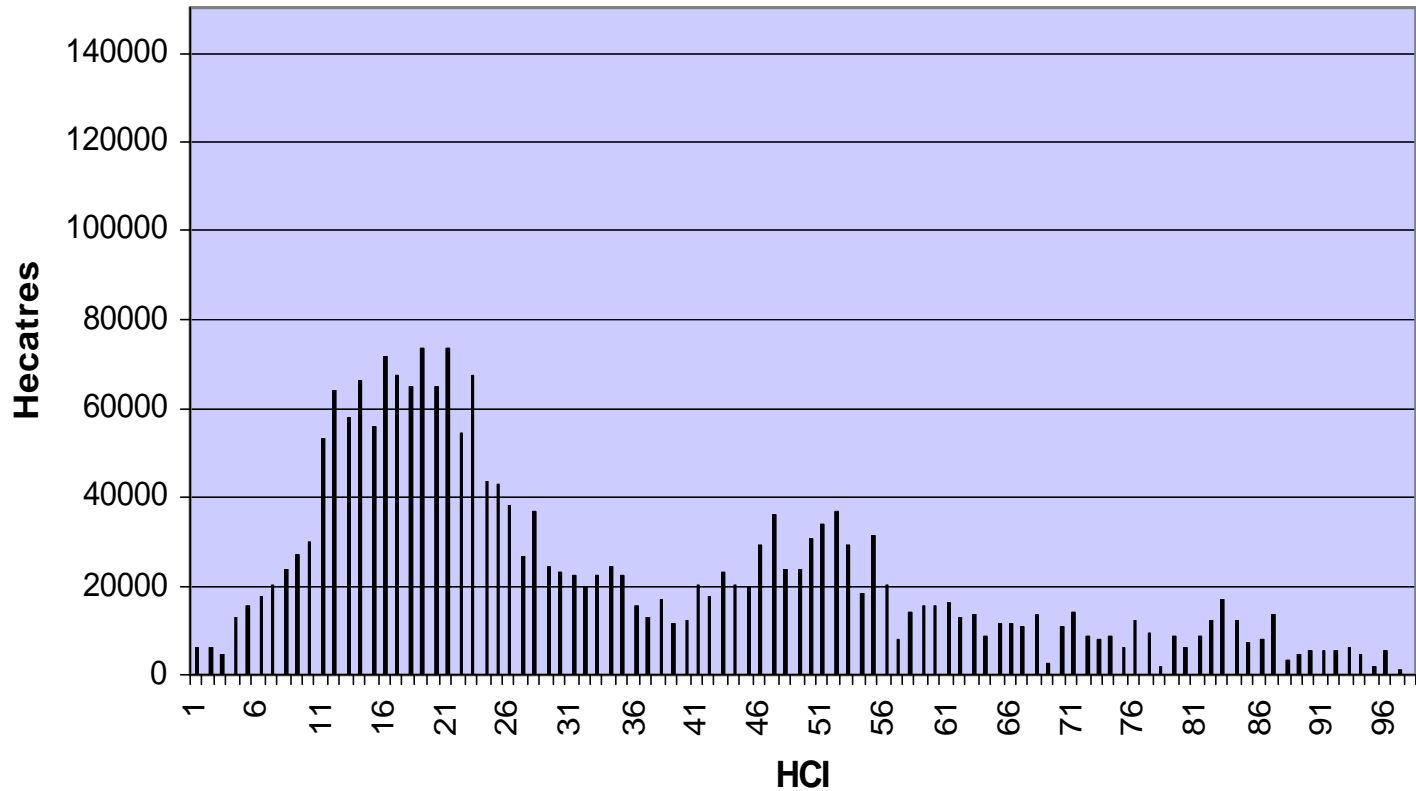
1996



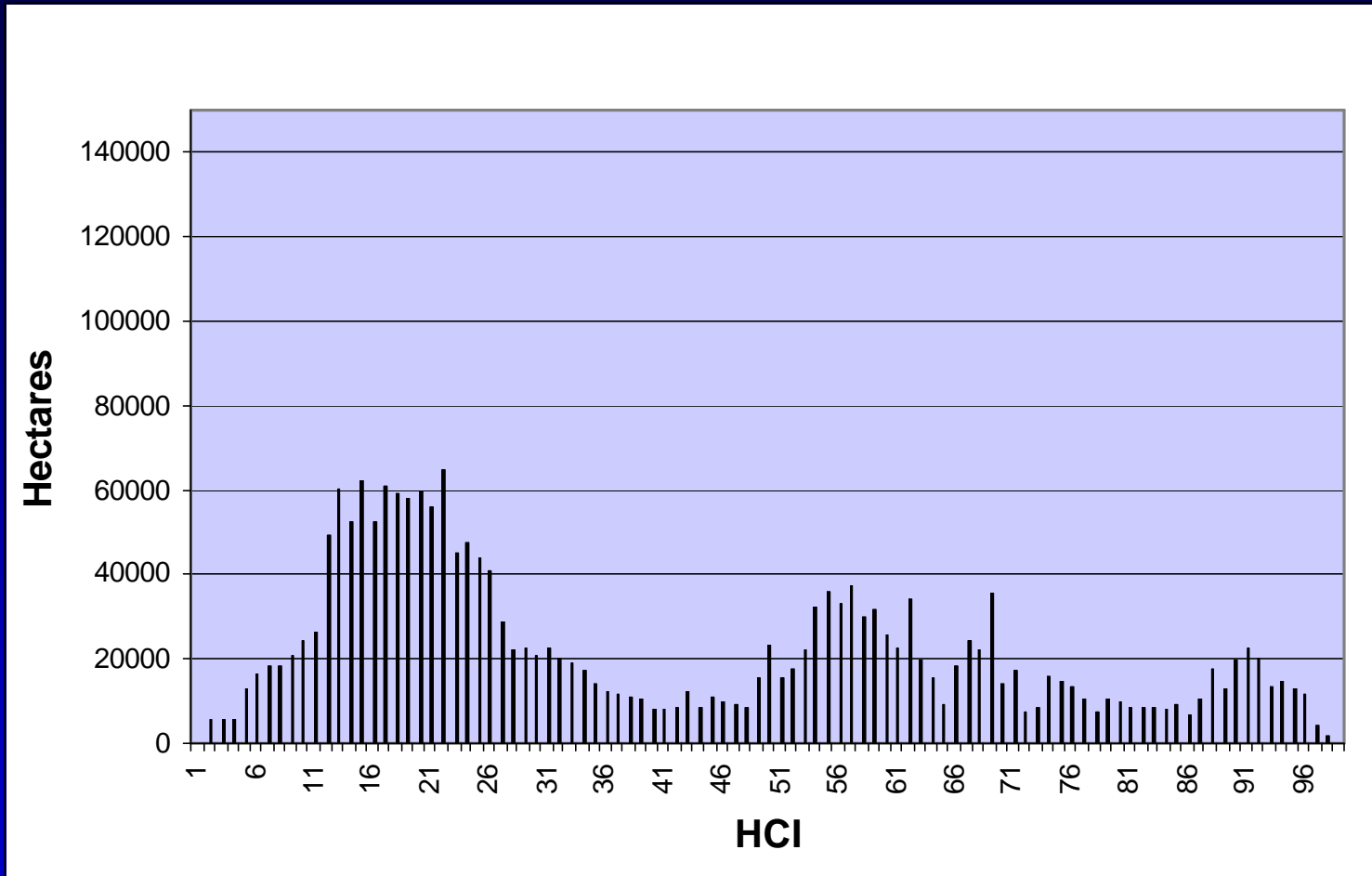
Distribution of Old-Growth Index in 1996 for Coast Range



Distribution of Old-Growth Index in 50 years for Base Practice Simulation for Coast Range

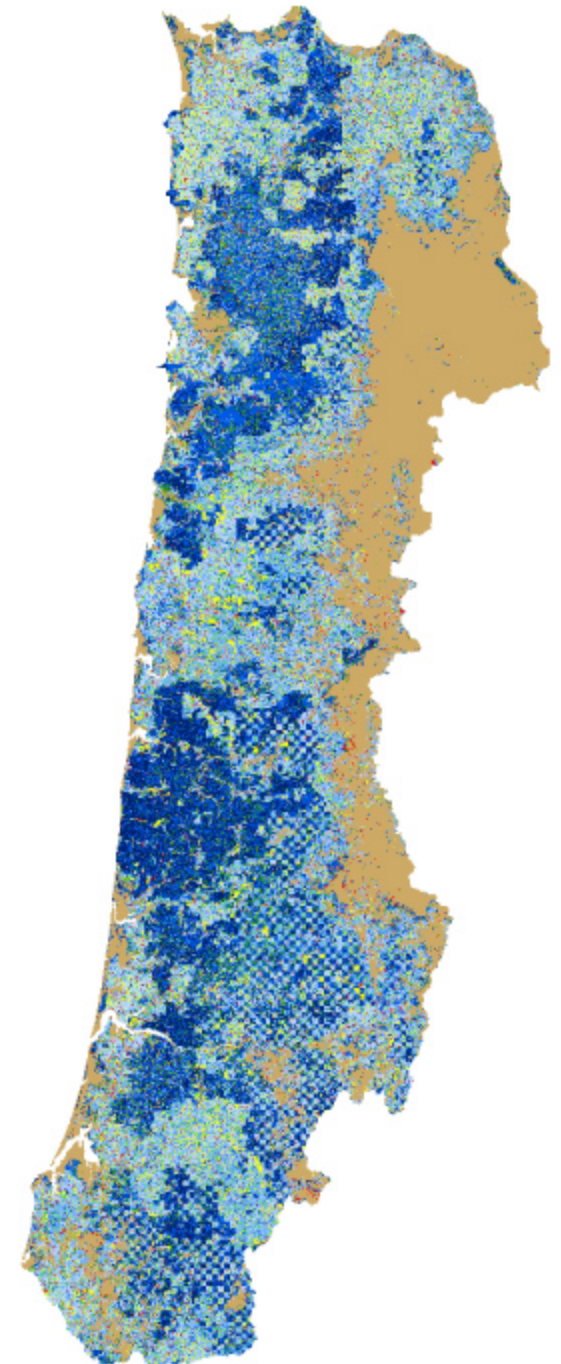


Distribution of Old-Growth Index in 100 years for Base Practice Simulation for Coast Range

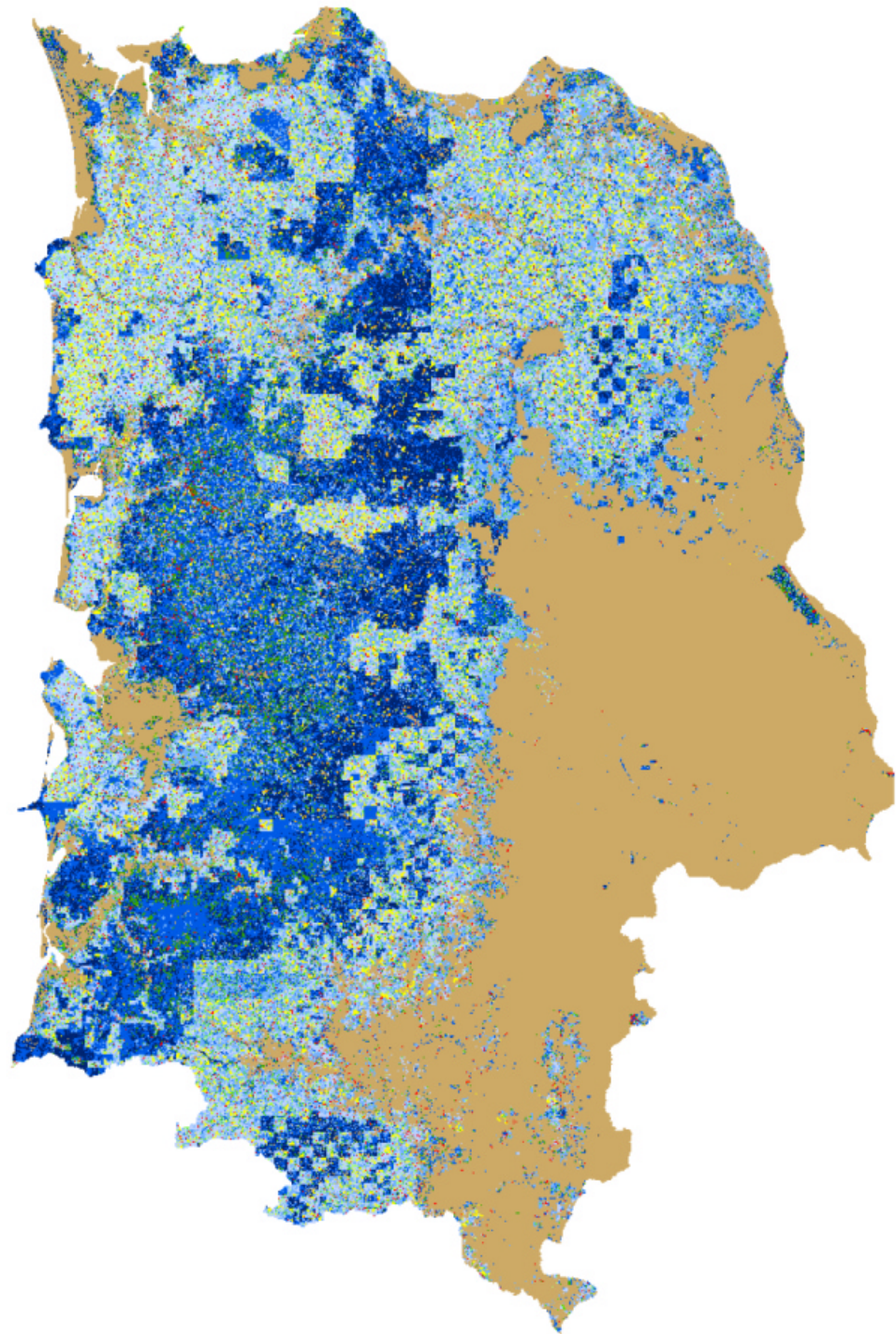


Landscape Patterns

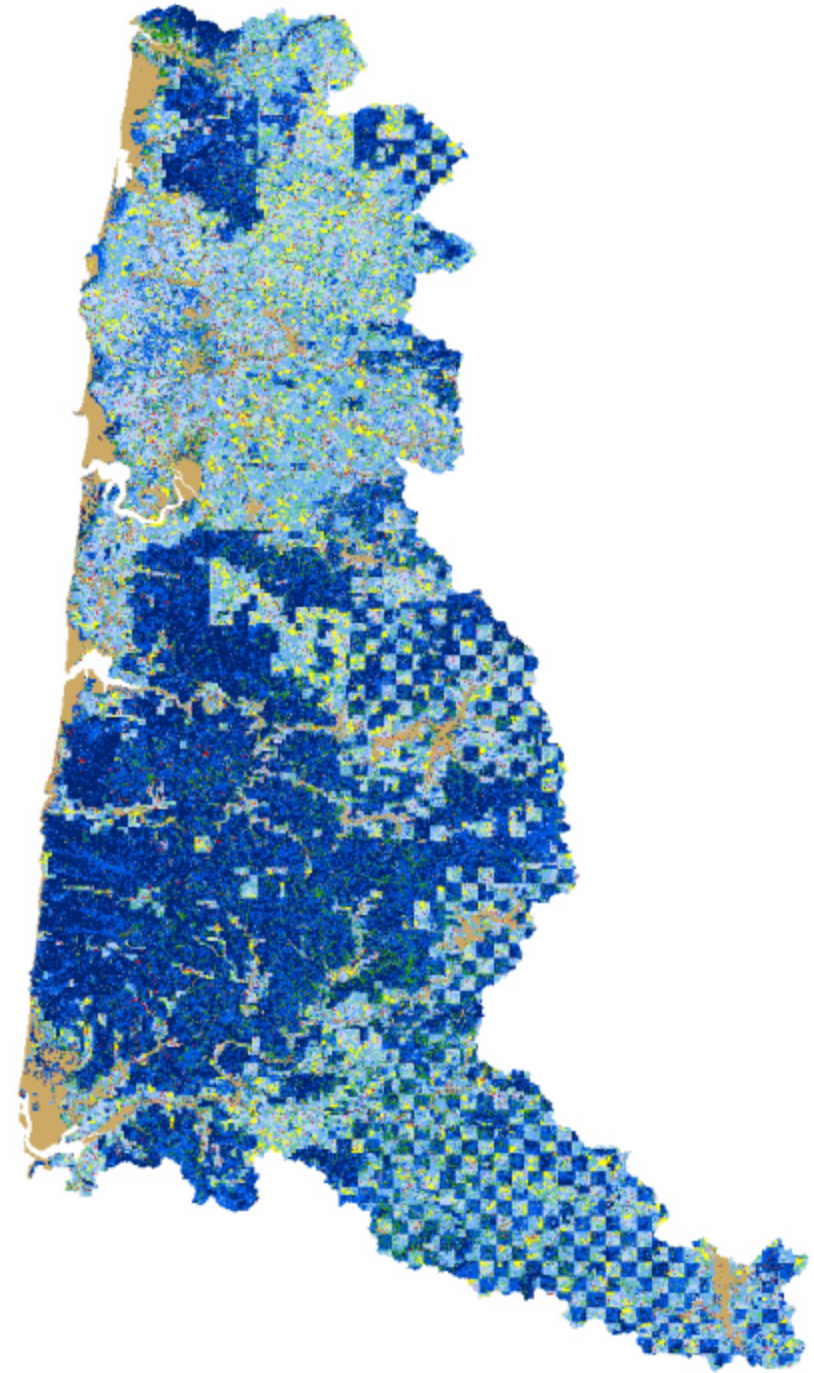
Vegetation Classes 2096 – Projected Base Policy



Vegetation Classes 2096 – Projected Base Policy



Vegetation Classes 2096 – Projected Base Policy



Conclusions

Area of mature and old-growth forest and habitat for associated Species is expected to increase strongly over the next 100 years

Despite 100 years amounts of older forest and structural conditions still probably below historical range of variation

Low amounts of habitat for species requiring open structurally Diverse forests—trends are flat

Species diversity associated with hardwoods is projected to strongly decline

Conclusions

Alternative policies may alter condition of biological diversity but further analysis is needed

New landscape patterns developing that have particular ecological characteristics