

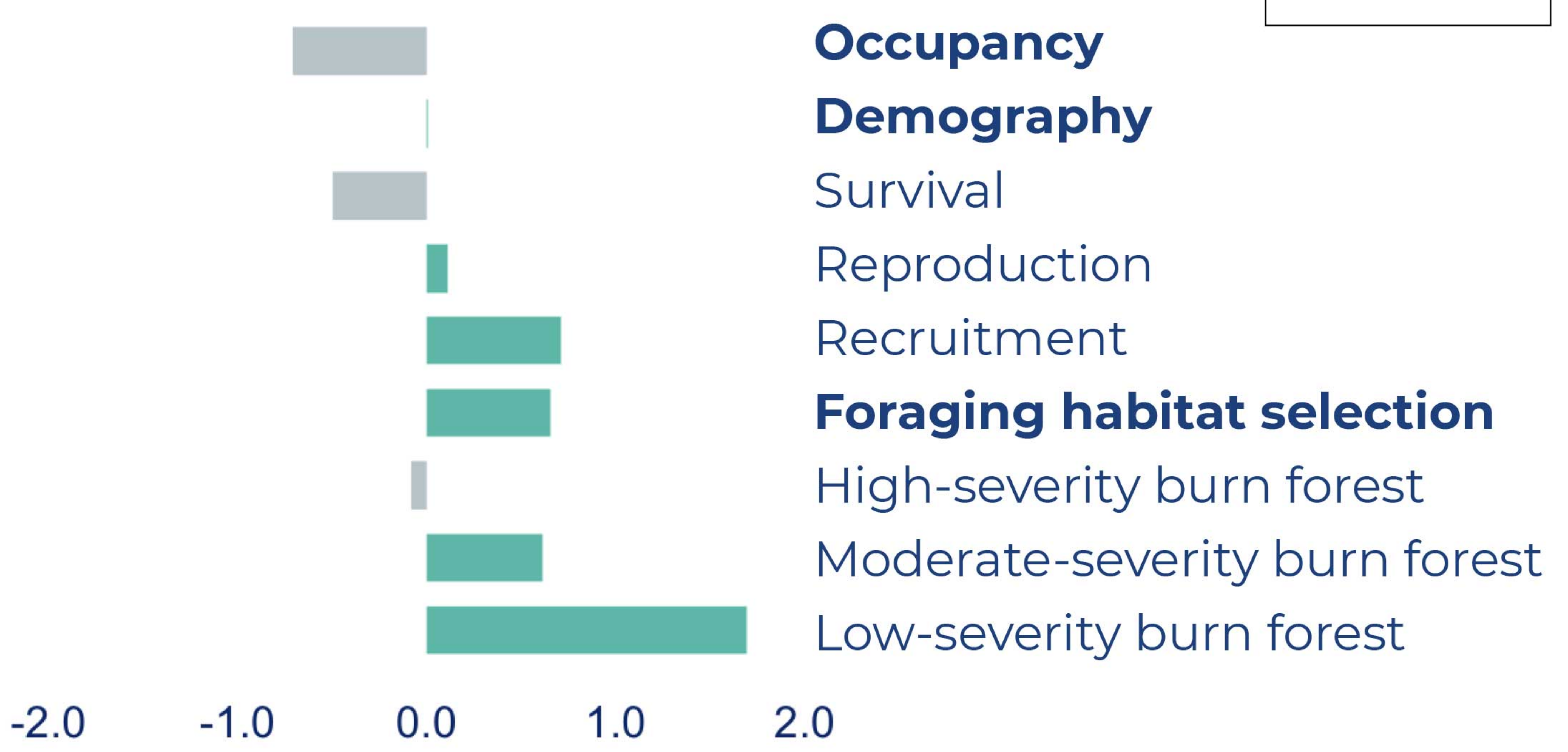
# Spotted Owls & Forest Fires

An overview of spotted owls response to forest fire

Mixed-severity forest fires with large patches of high-severity burn create more benefits than costs for spotted owls

◀ Costs Benefits ▶

15 papers  
50 effects



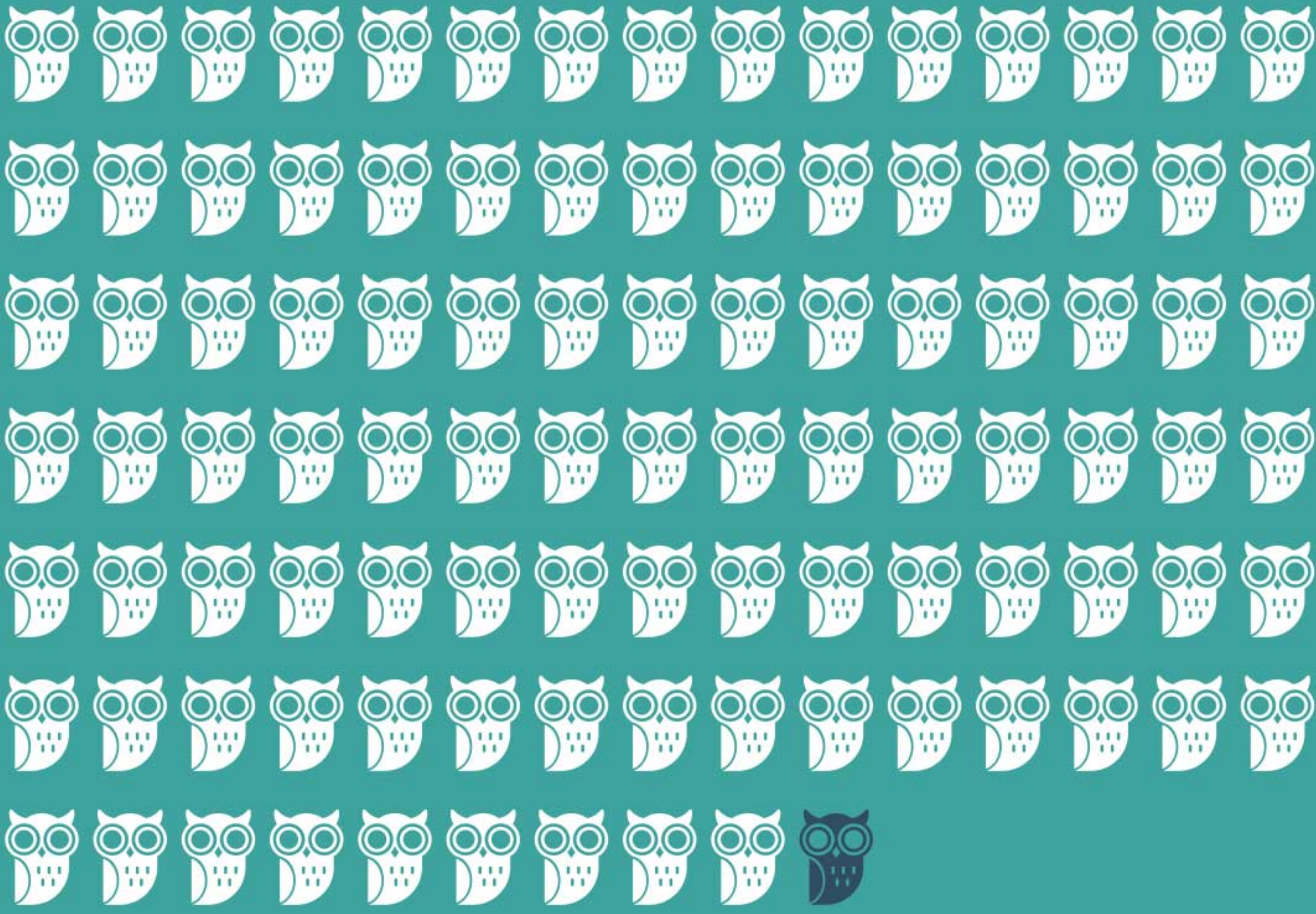
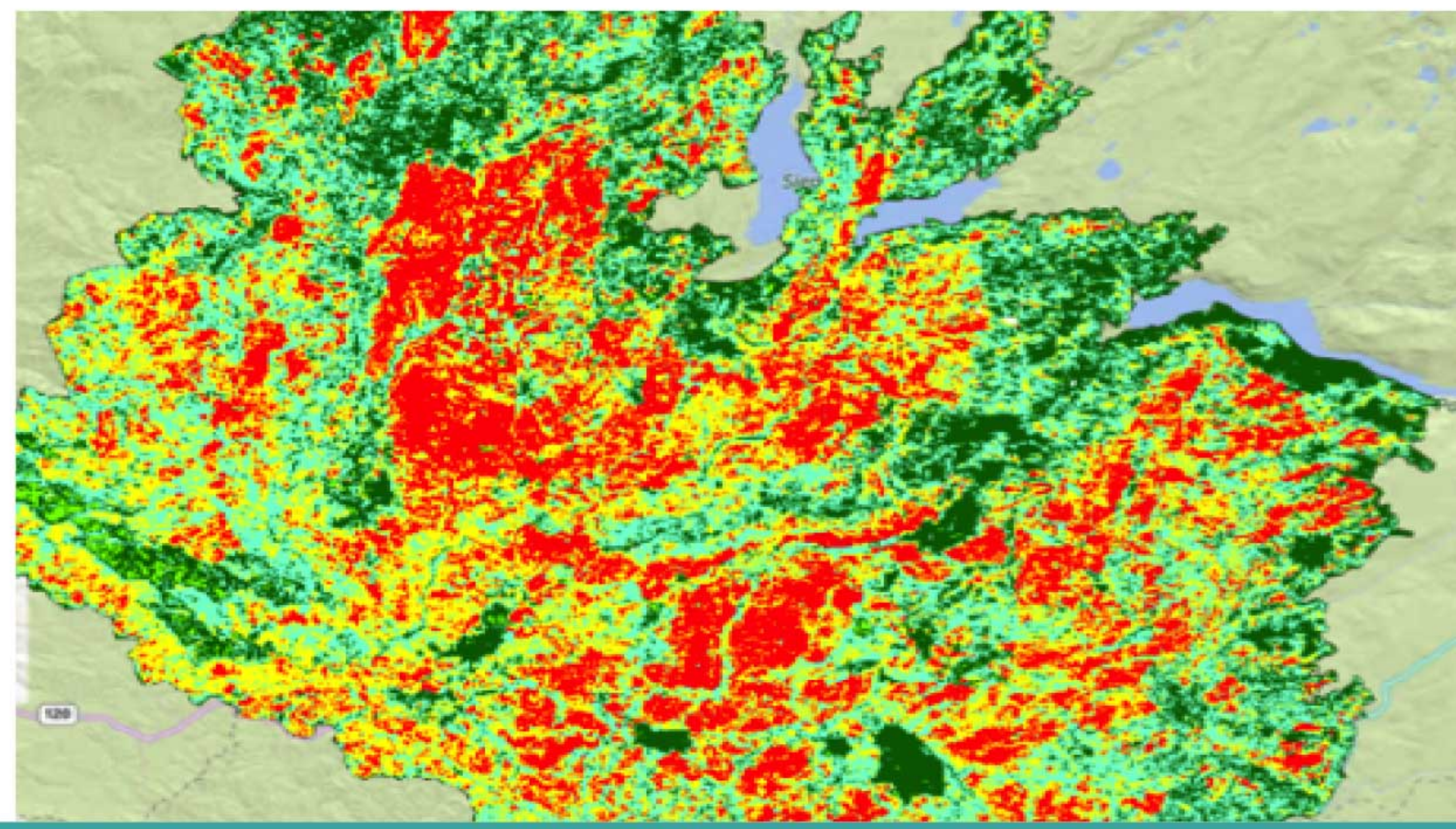
- Decreasing occupancy with time since fire
- Increased recruitment immediately after fire
- Reproduction increased as greater proportion of the breeding territory burned at high severity
- Increased foraging in low- and moderate-severity burned patches after mixed-severity fire
- High-severity burned patches are also used for foraging, not avoided



## Mixed-Severity Forest Fire

includes a mix of low-, moderate-, and high-severity burn

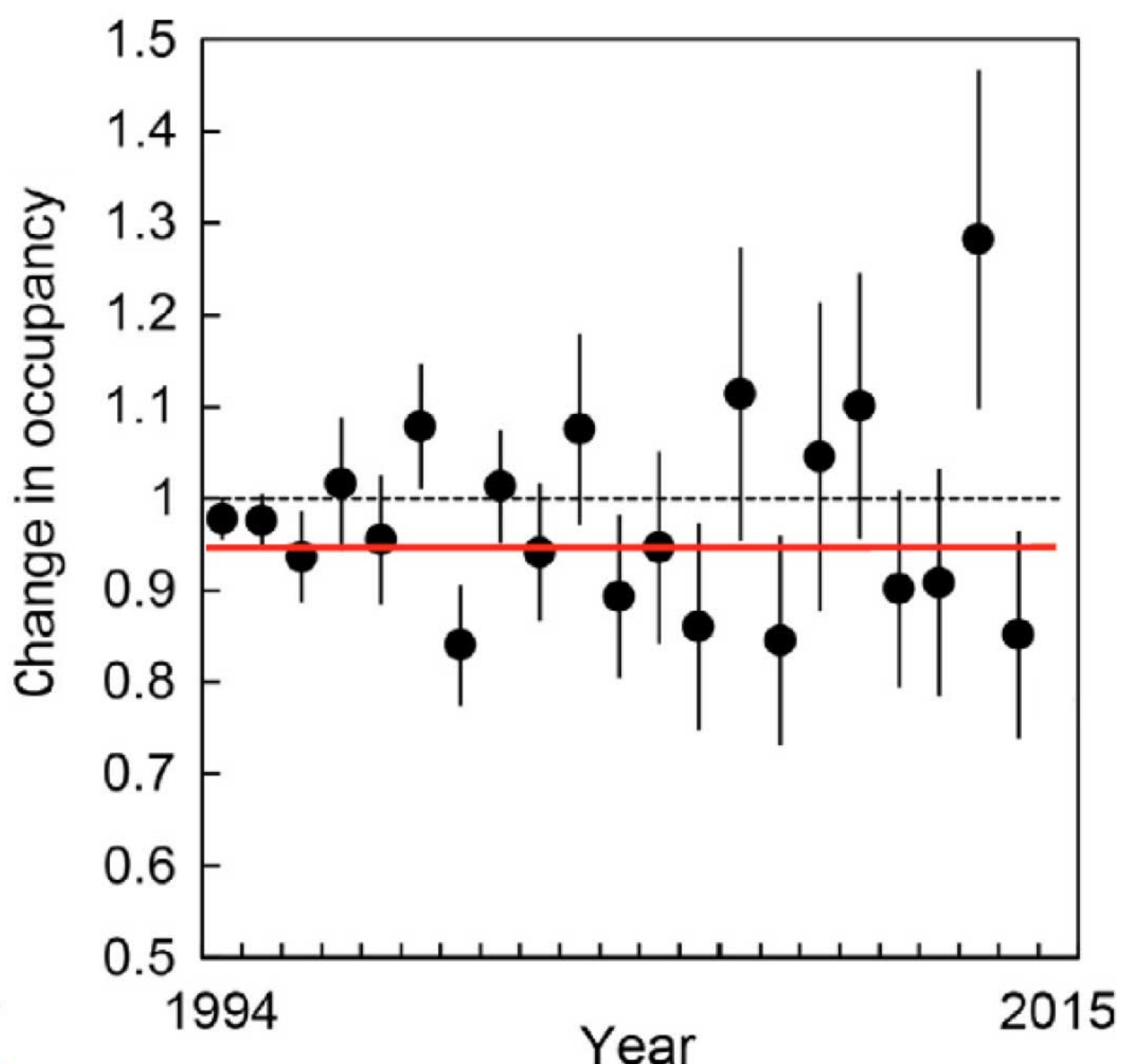
**Mixed-Severity Forest Fire**  
naturally creates a diverse mosaic of habitats



■ Sites Not Affected by Fire (99%)  
■ Sites Affected by Fire (1%)

**10 out of 1,000**

Spotted Owl breeding sites are affected annually by forest fires



## Change in Occupancy

Occupancy reduction from forest fires (red line) is less than normal annual changes in occupancy in the absence of fire (dashed line)