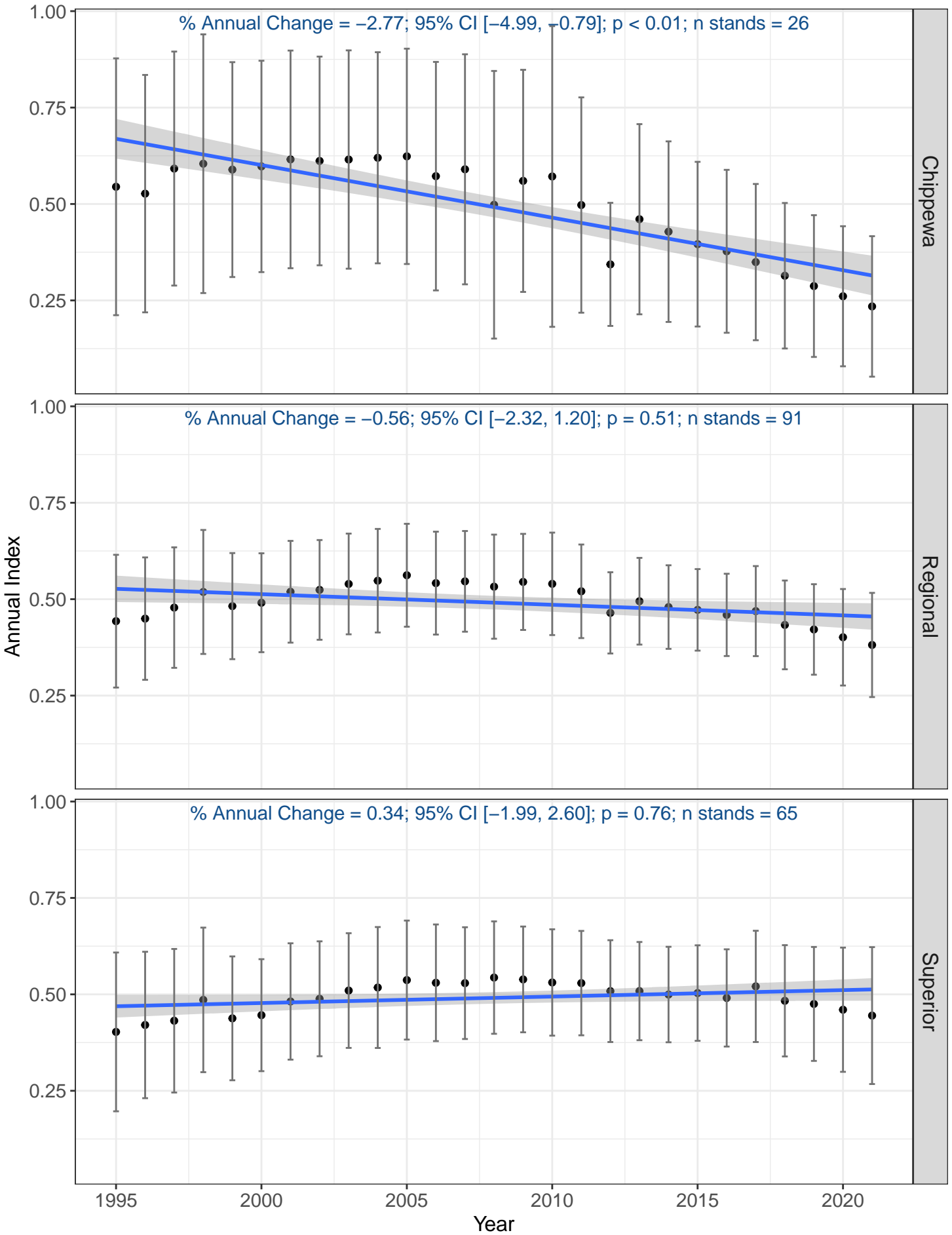


## **Appendix A**

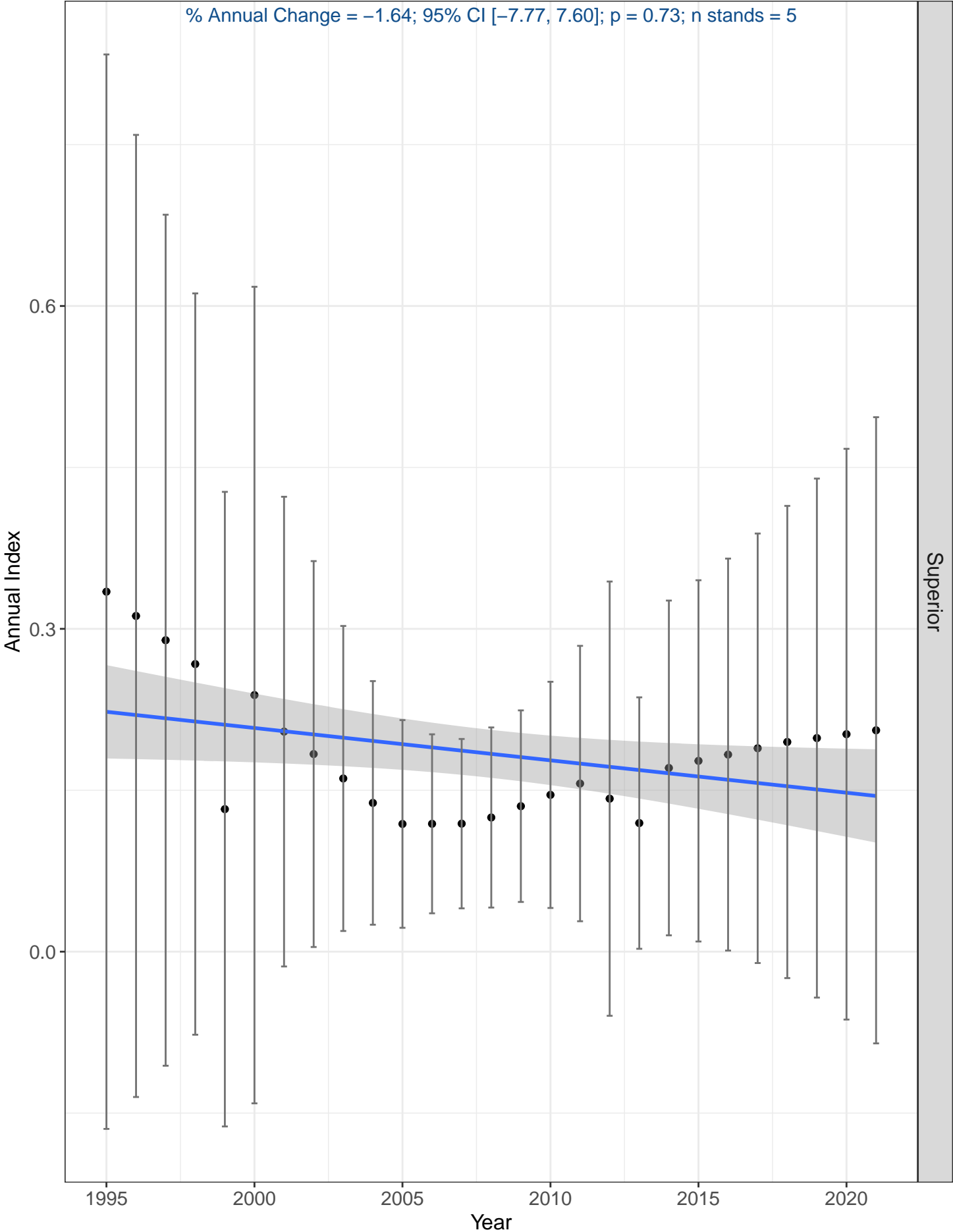
Population trend graphs of calculated annual index for individual species within the Chippewa and Superior National Forests, and regionally over the 25-year time period (1995–2021) of the study

# Alder Flycatcher



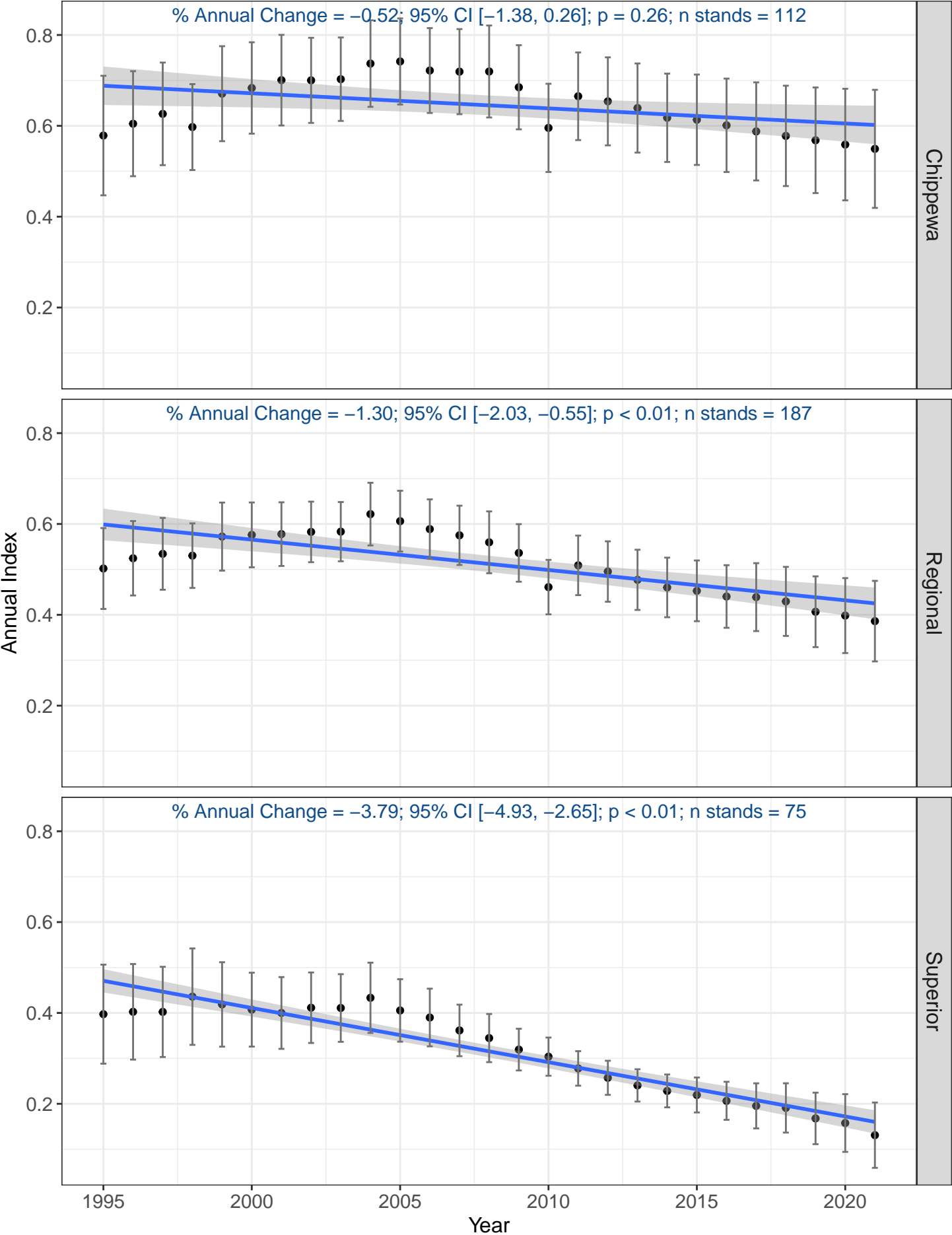
# American Bittern

% Annual Change = -1.64; 95% CI [-7.77, 7.60]; p = 0.73; n stands = 5

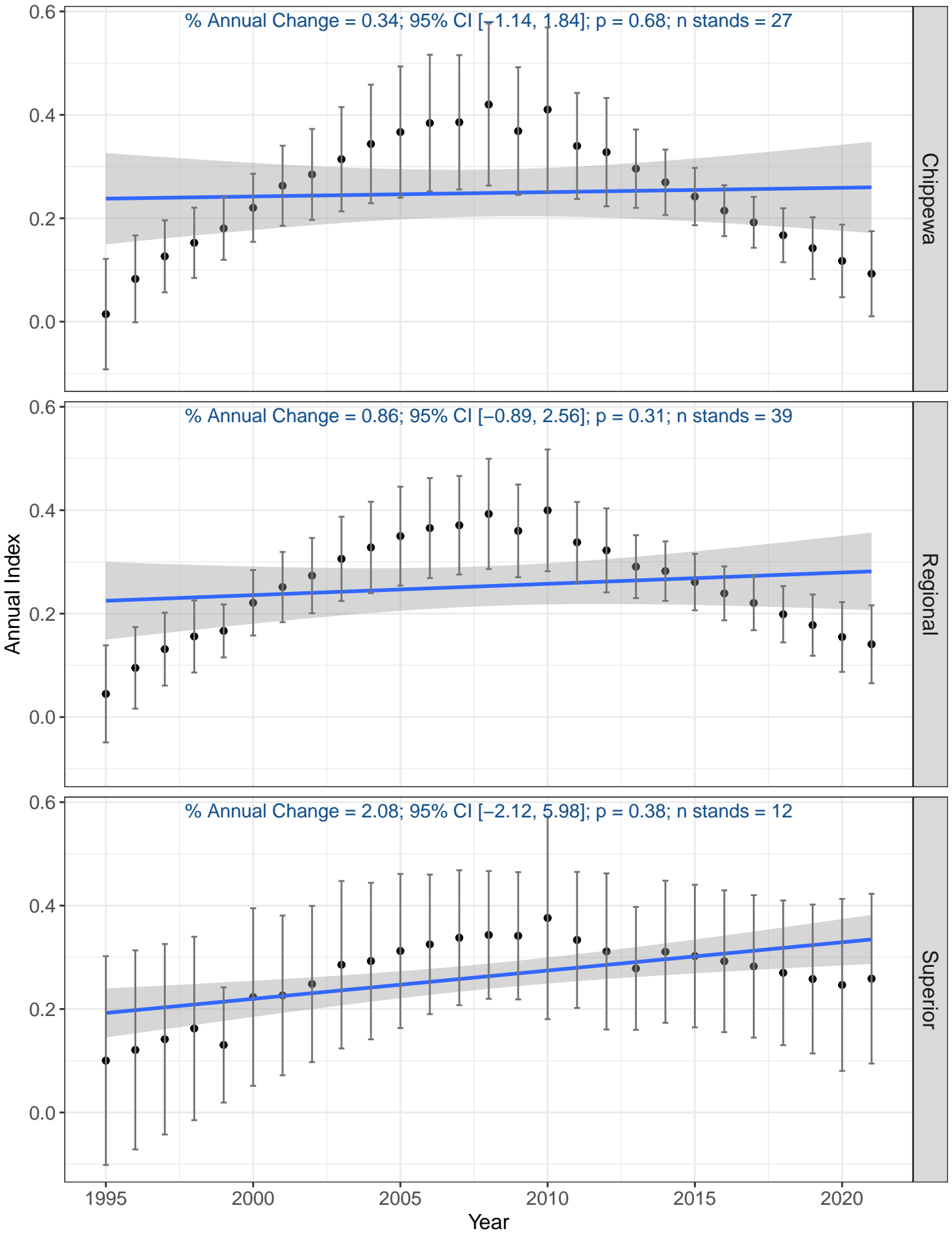


Superior

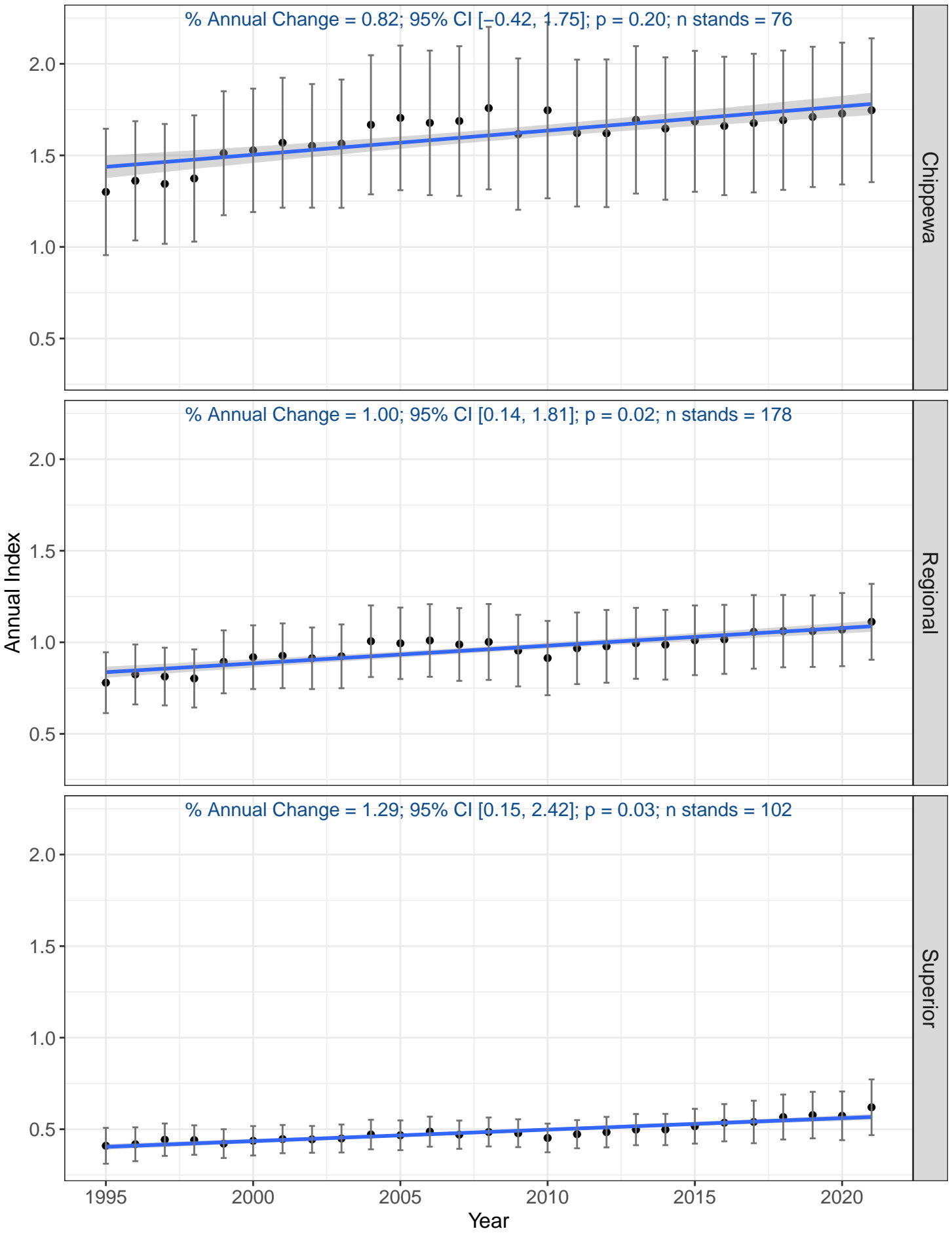
# American Crow



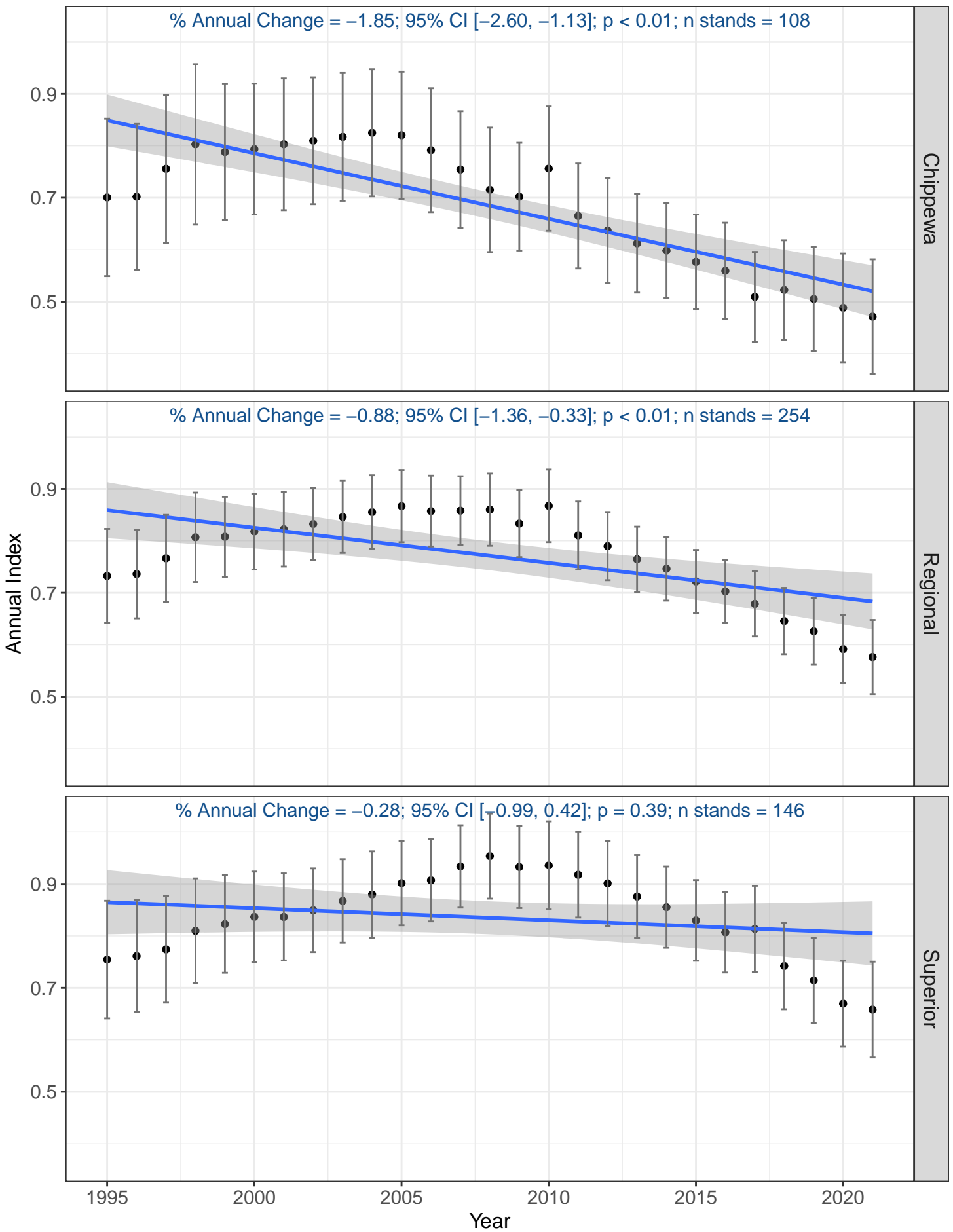
# American Goldfinch



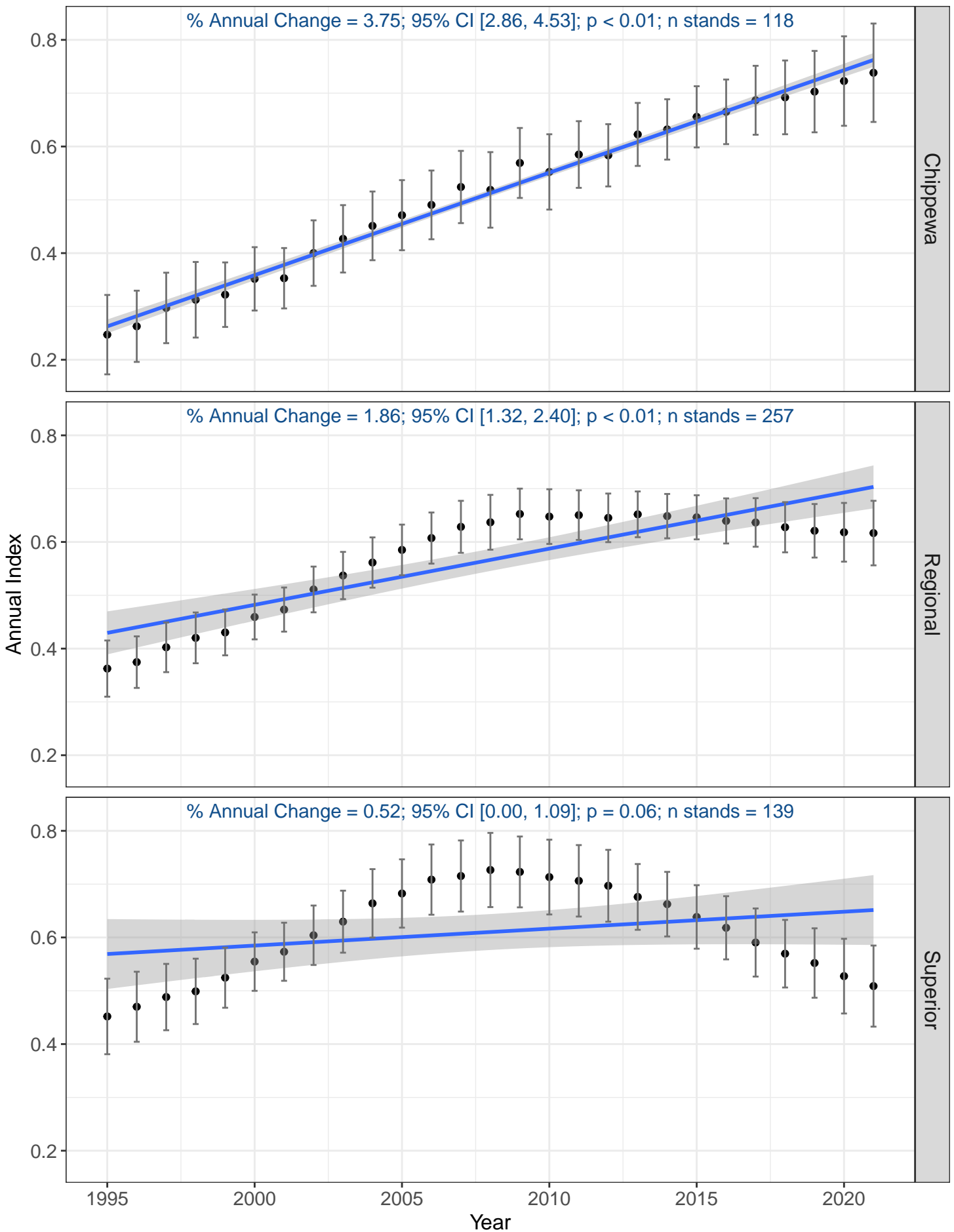
# American Redstart



# American Robin



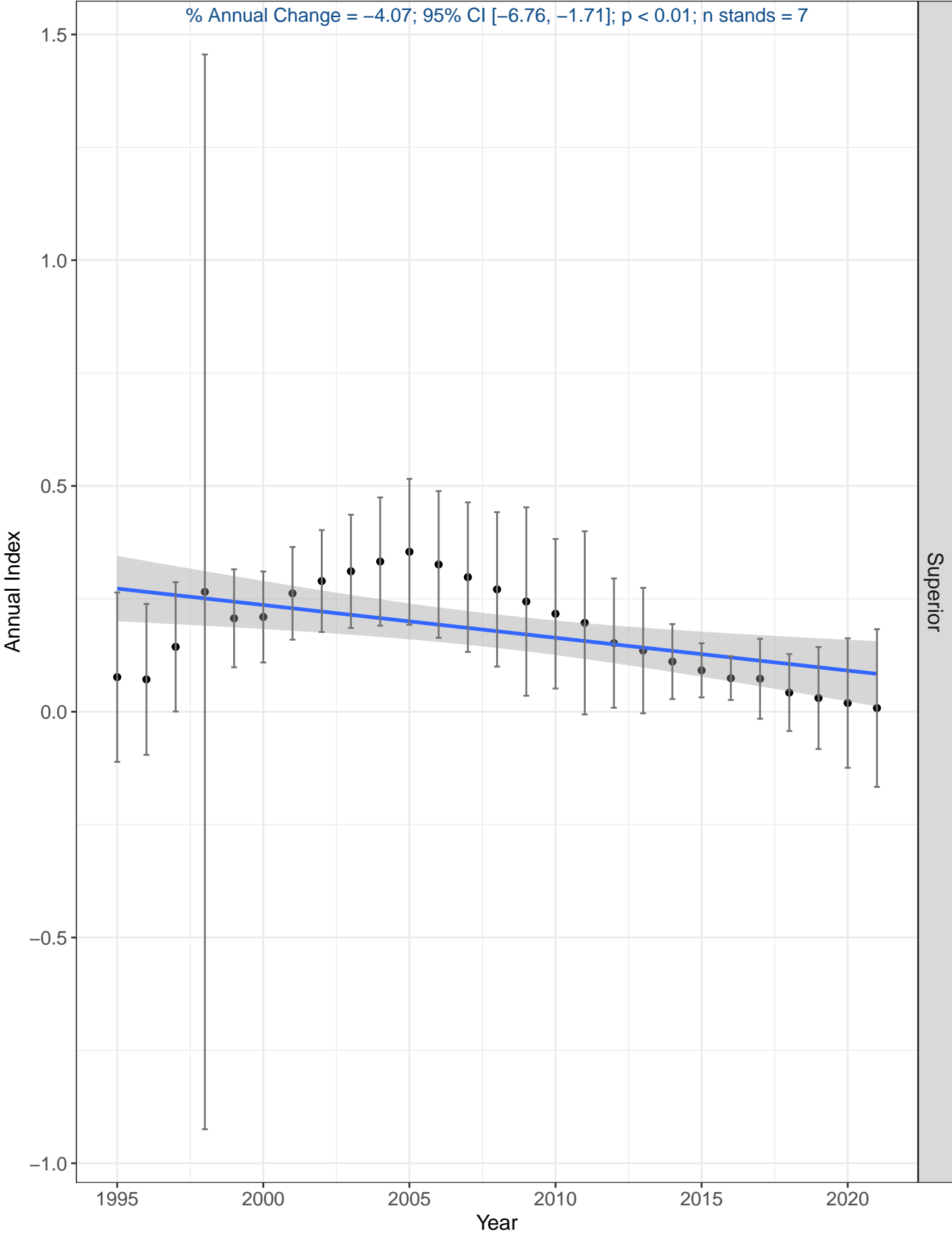
# Black-and-white Warbler





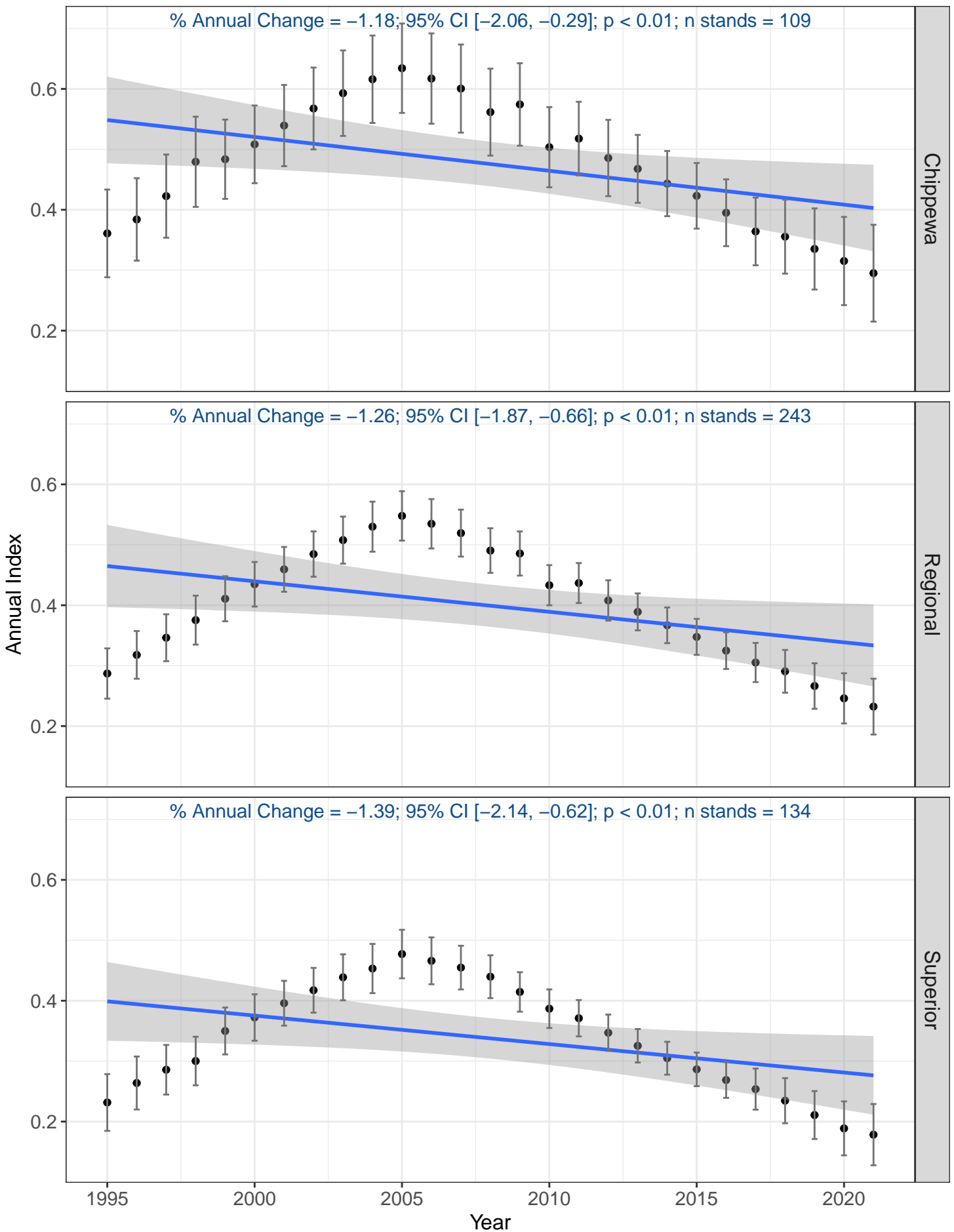
# Black-billed Cuckoo

% Annual Change = -4.07; 95% CI [-6.76, -1.71]; p < 0.01; n stands = 7



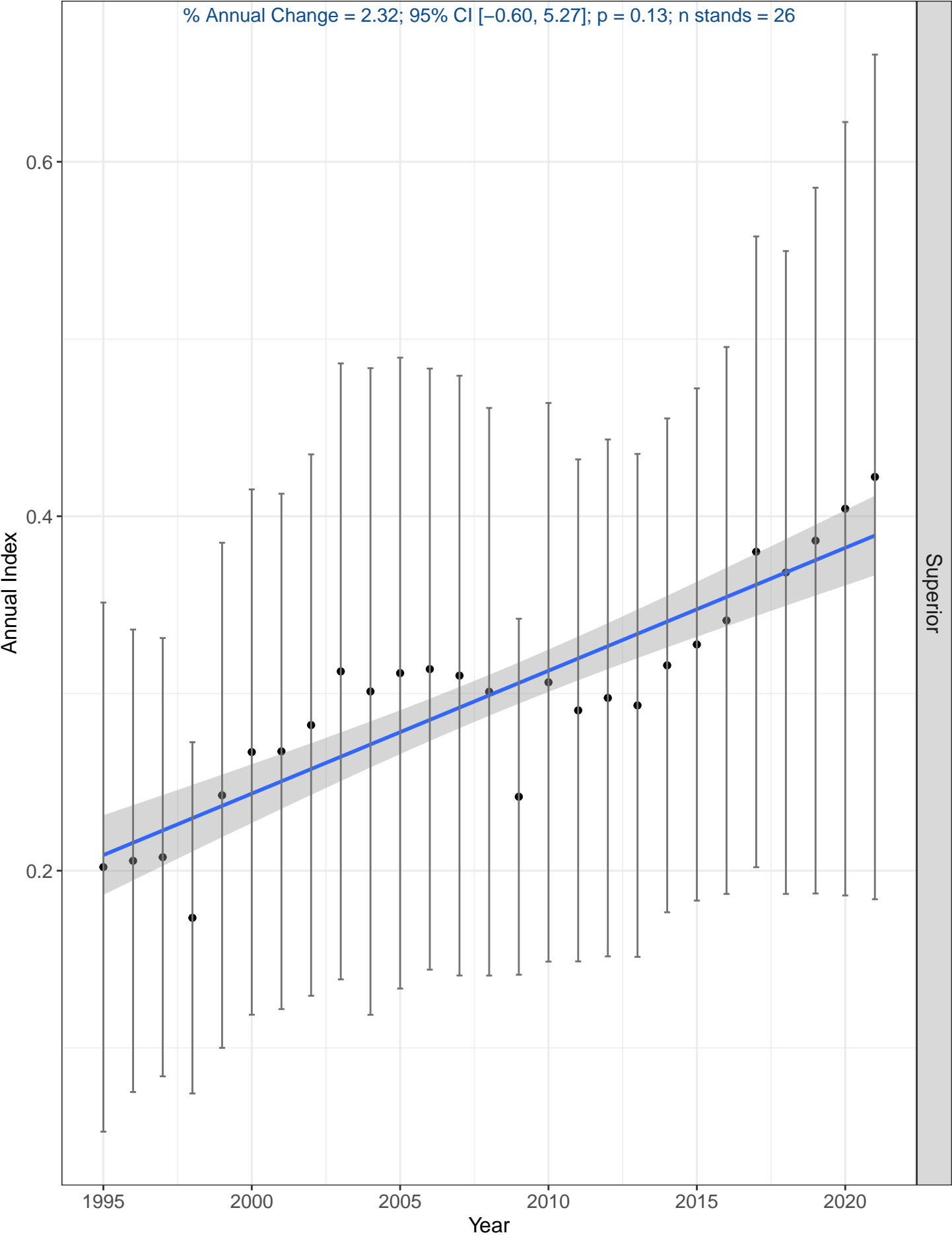
Superior

# Black-capped Chickadee

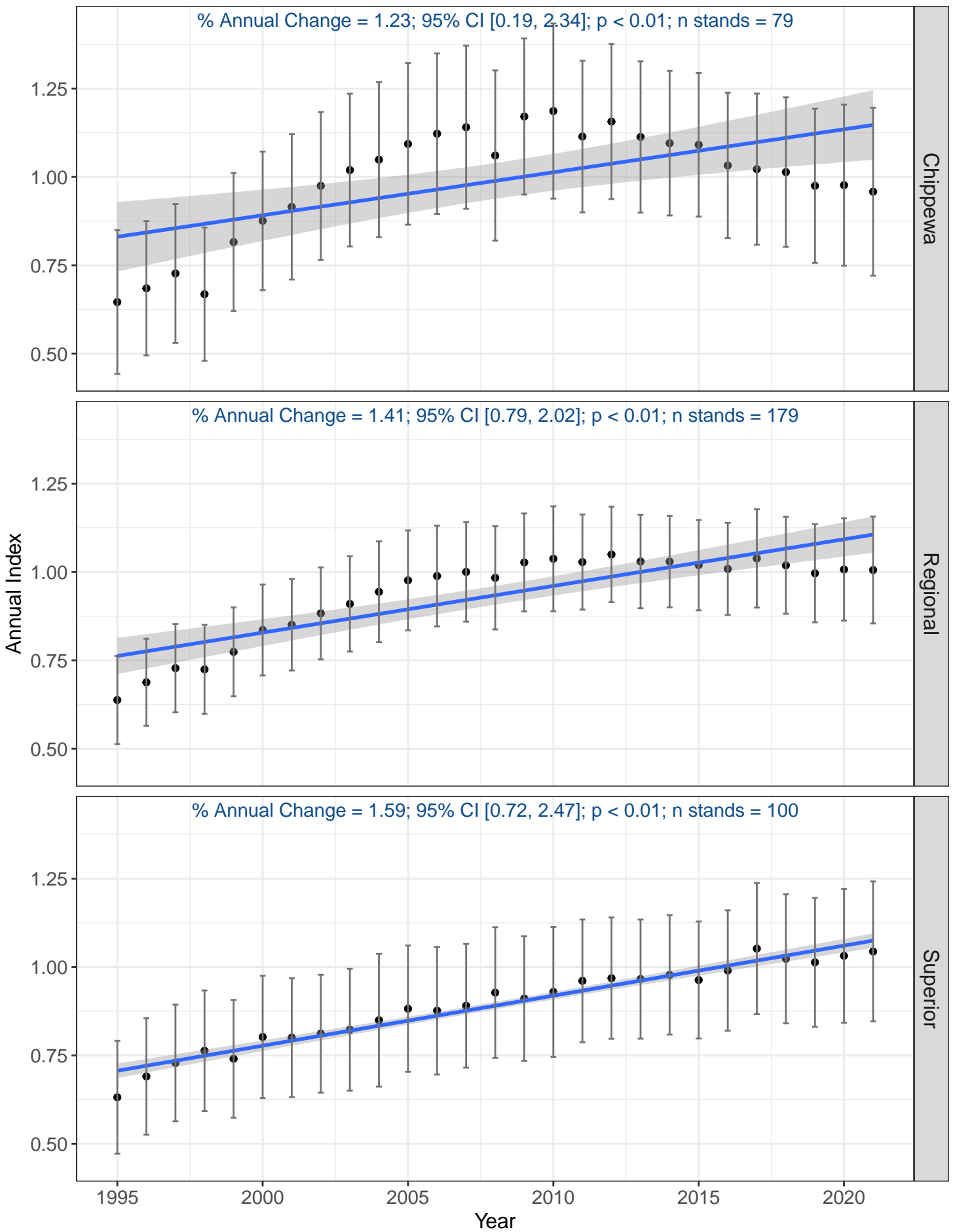


# Black-throated Blue Warbler

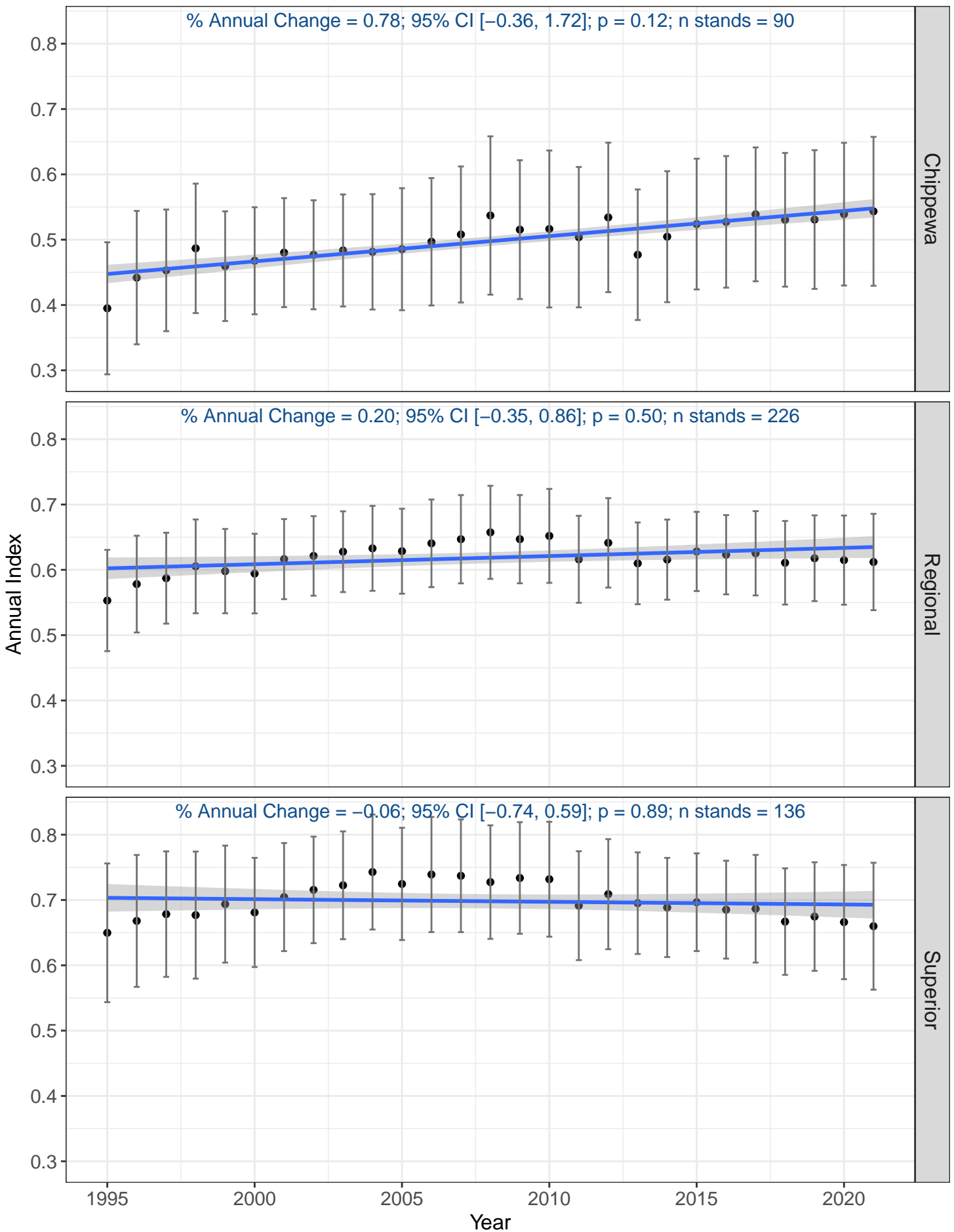
% Annual Change = 2.32; 95% CI [-0.60, 5.27]; p = 0.13; n stands = 26



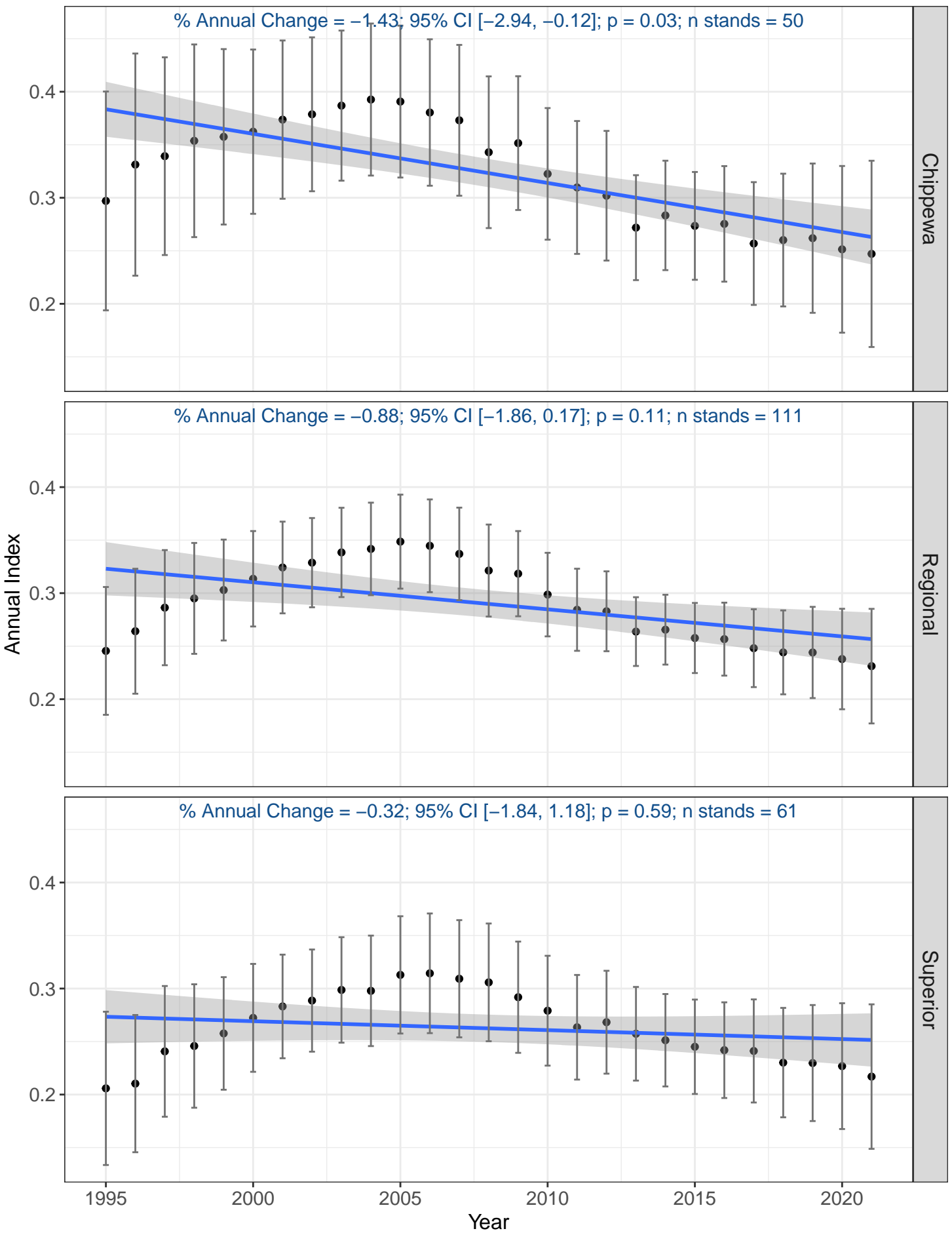
# Black-throated Green Warbler



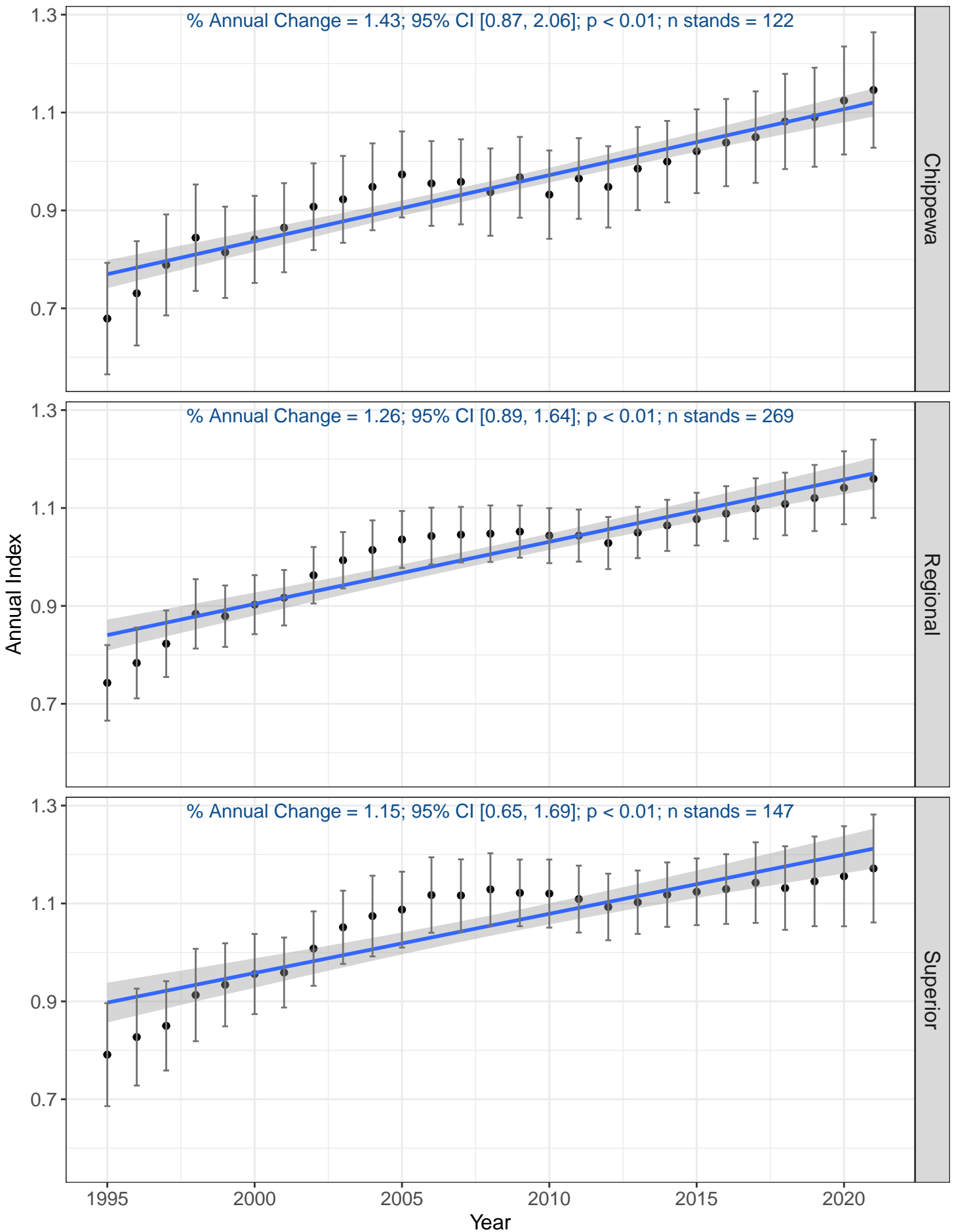
# Blackburnian Warbler



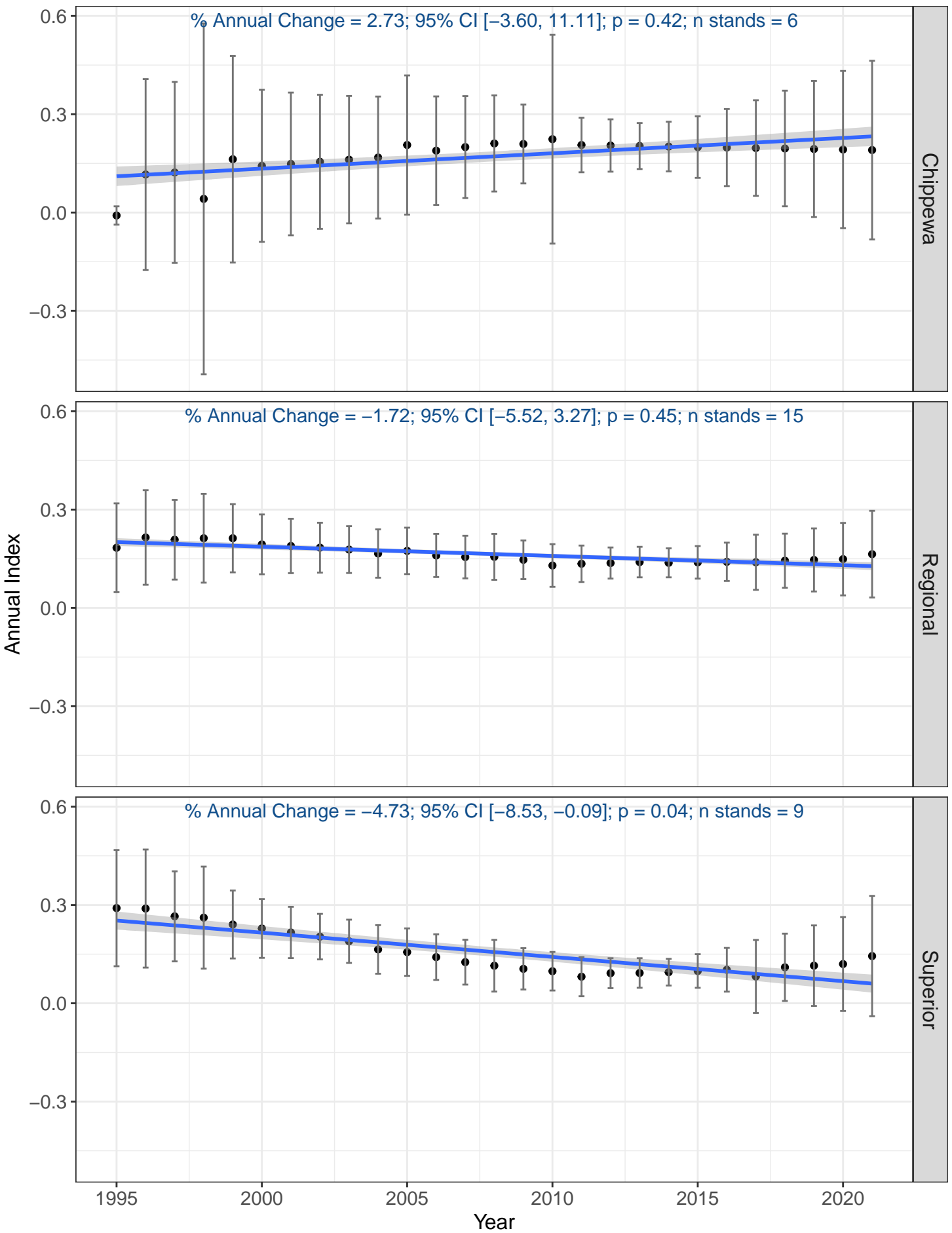
# Blue-headed Vireo



# Blue Jay



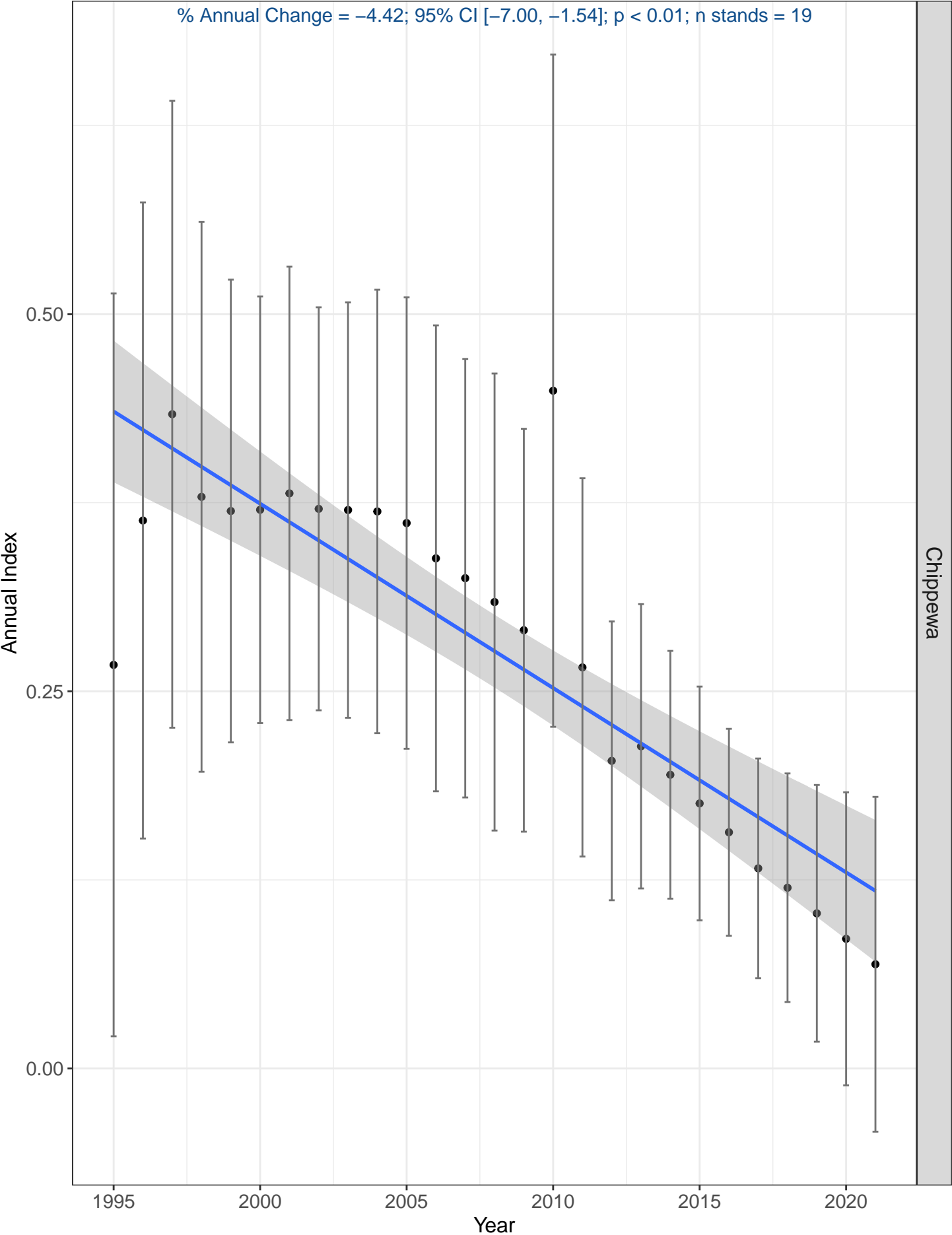
# Broad-winged Hawk



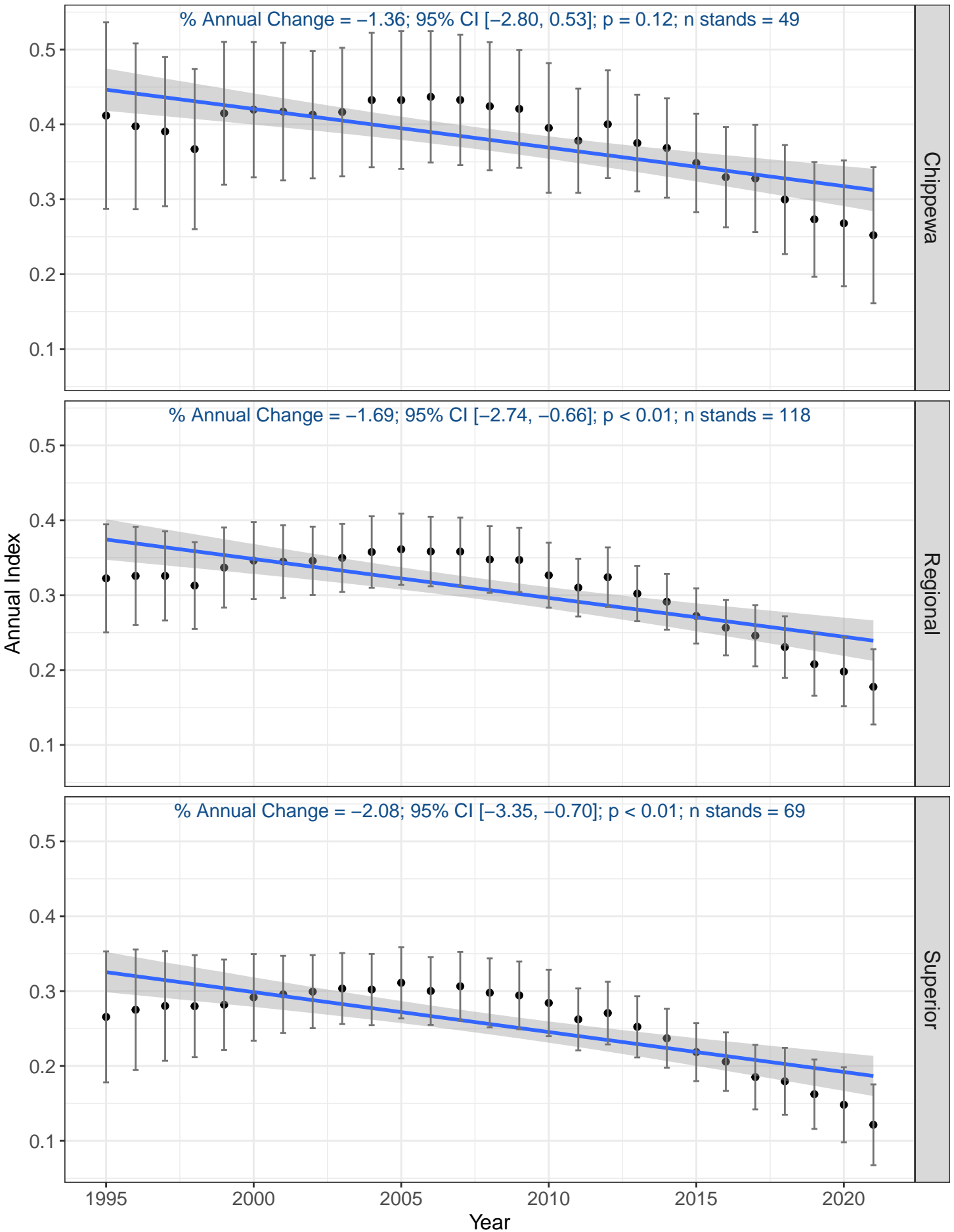


Brown-headed Cowbird

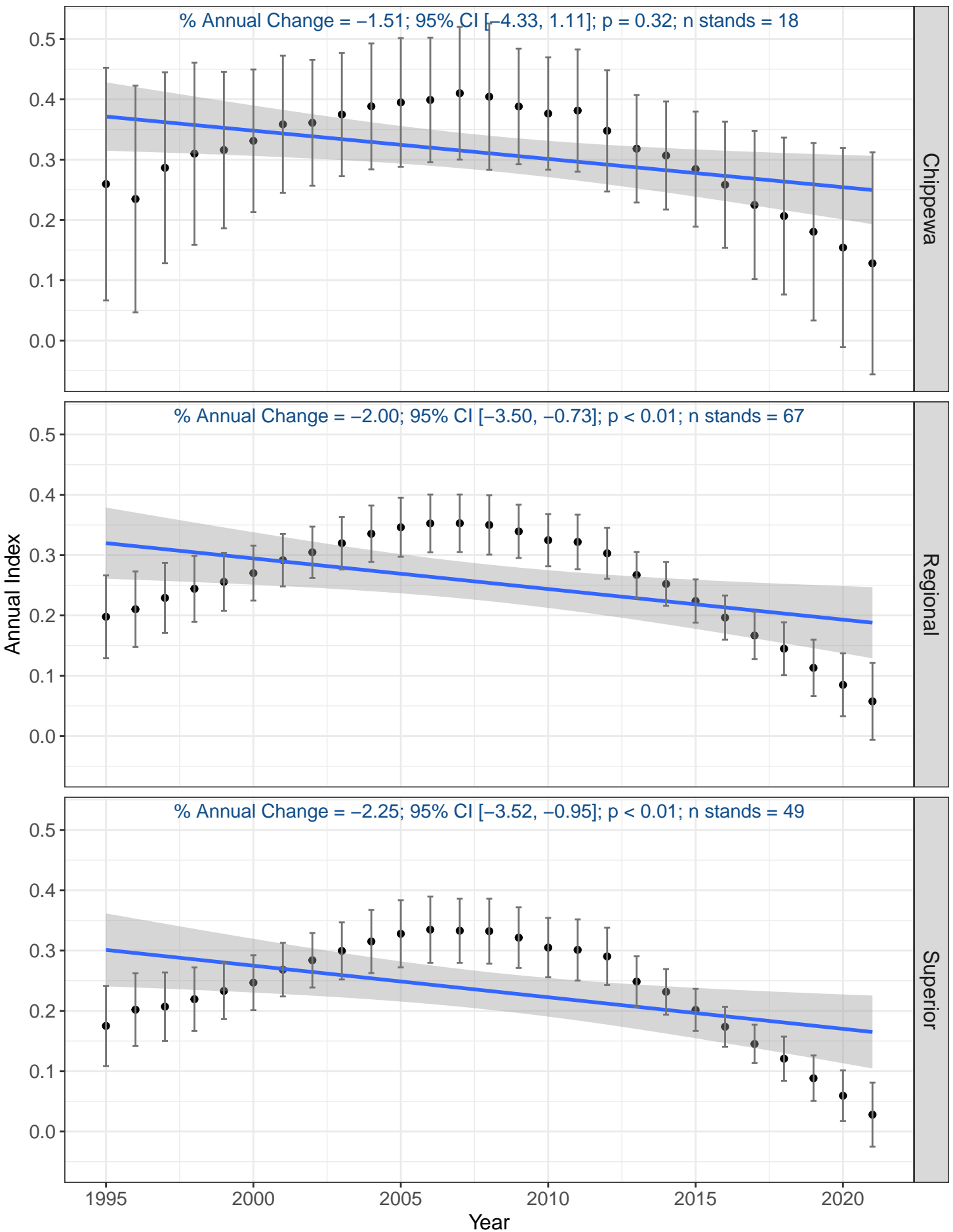
% Annual Change = -4.42; 95% CI [-7.00, -1.54]; p < 0.01; n stands = 19



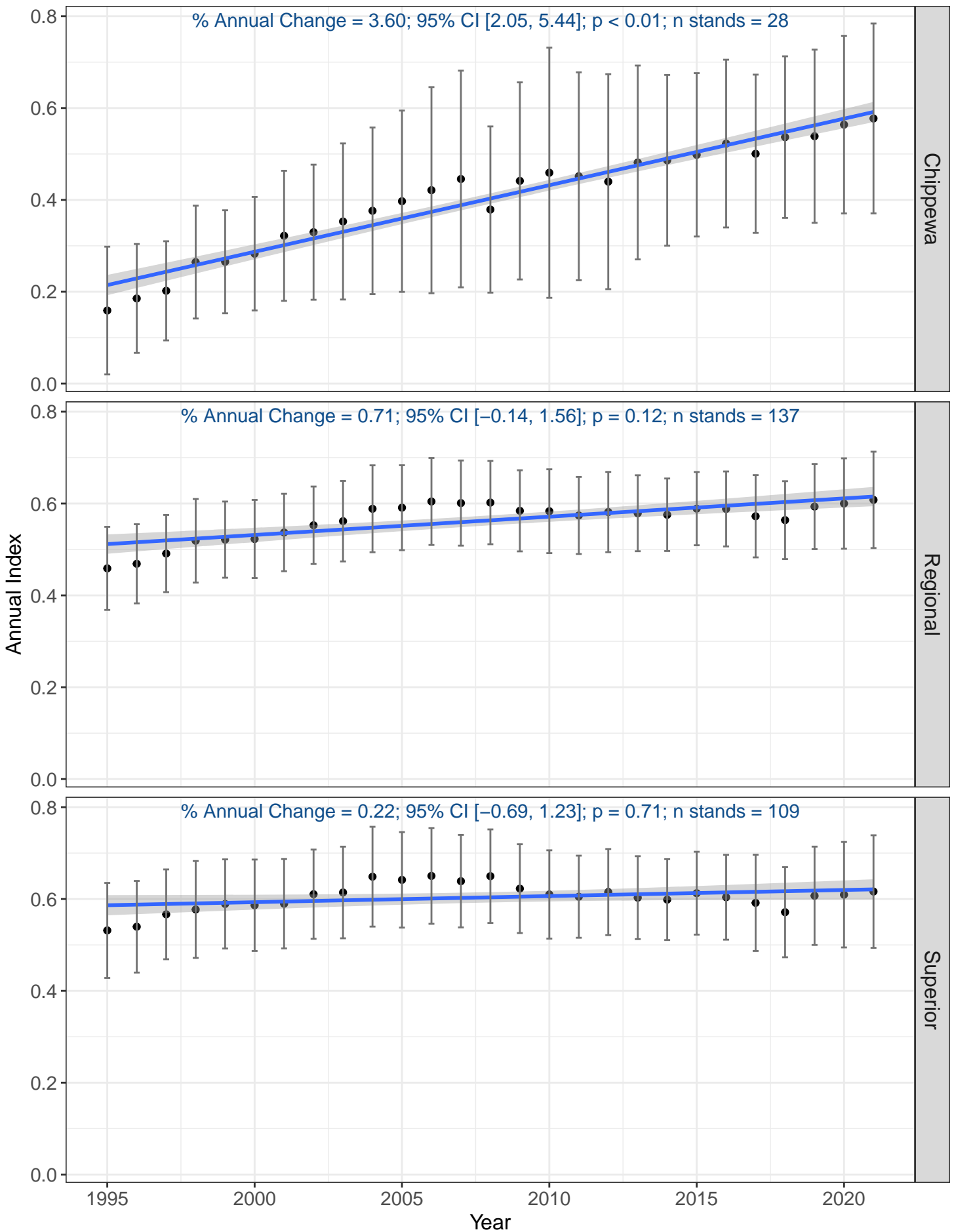
# Brown Creeper



# Canada Jay

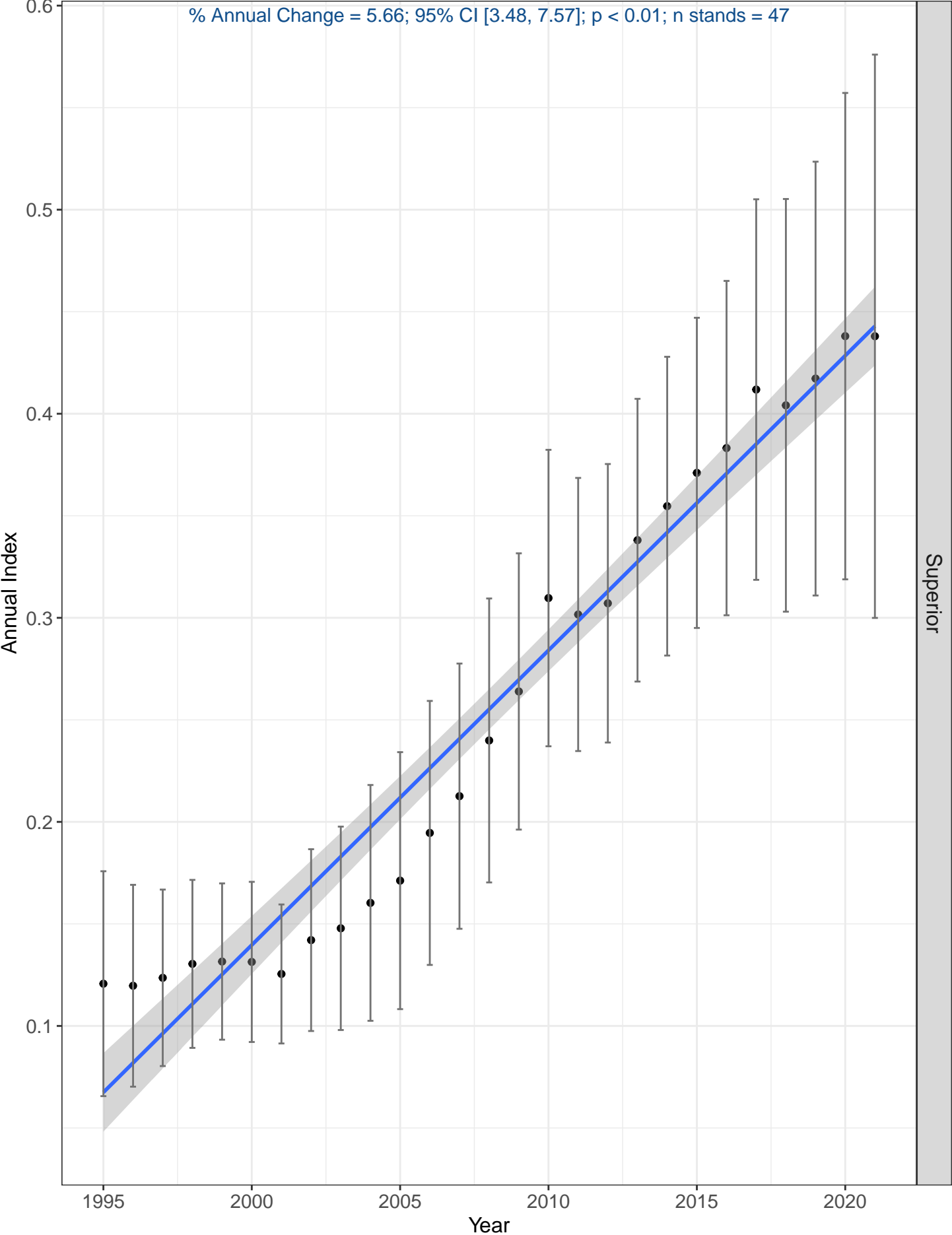


# Canada Warbler

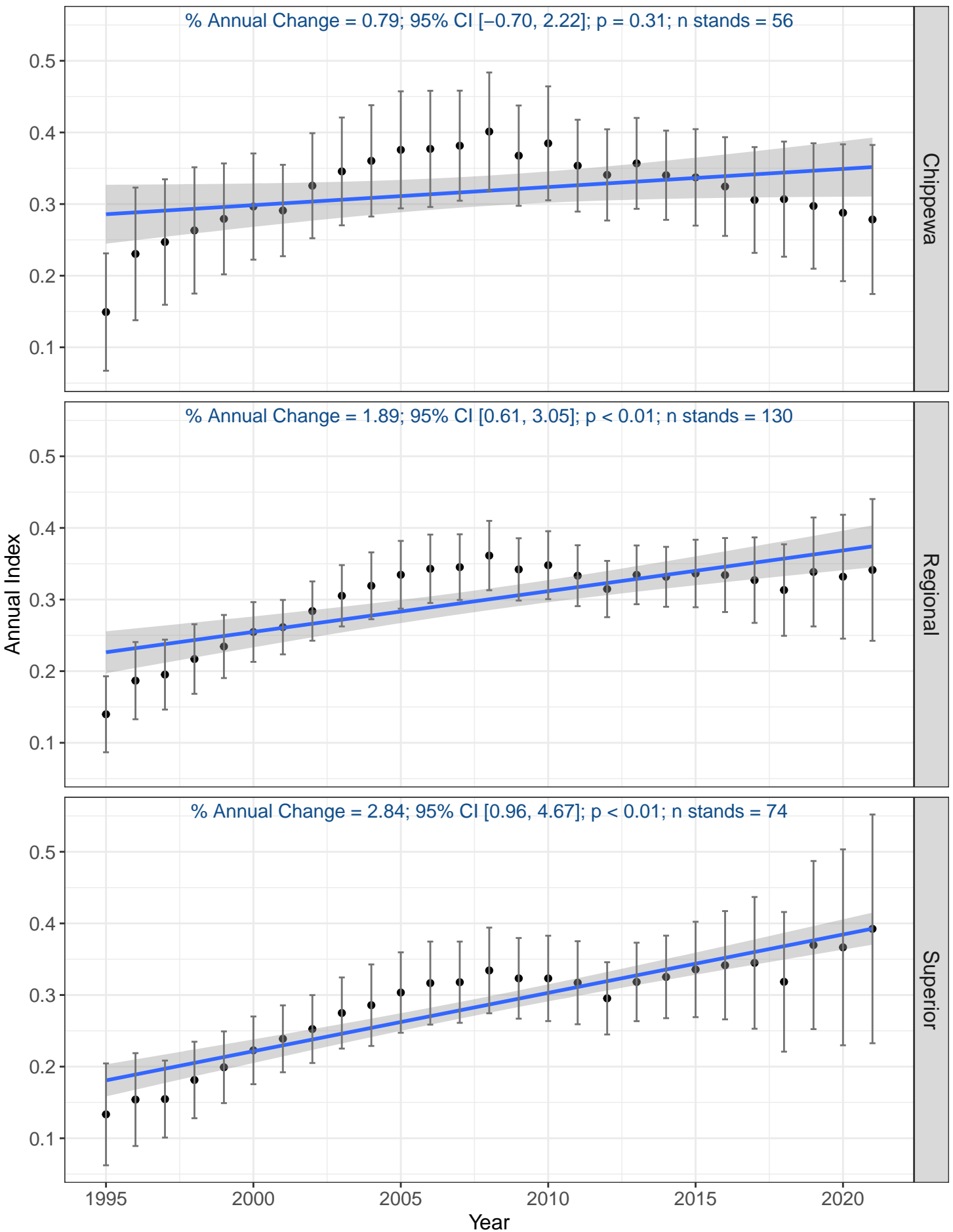


# Cape May Warbler

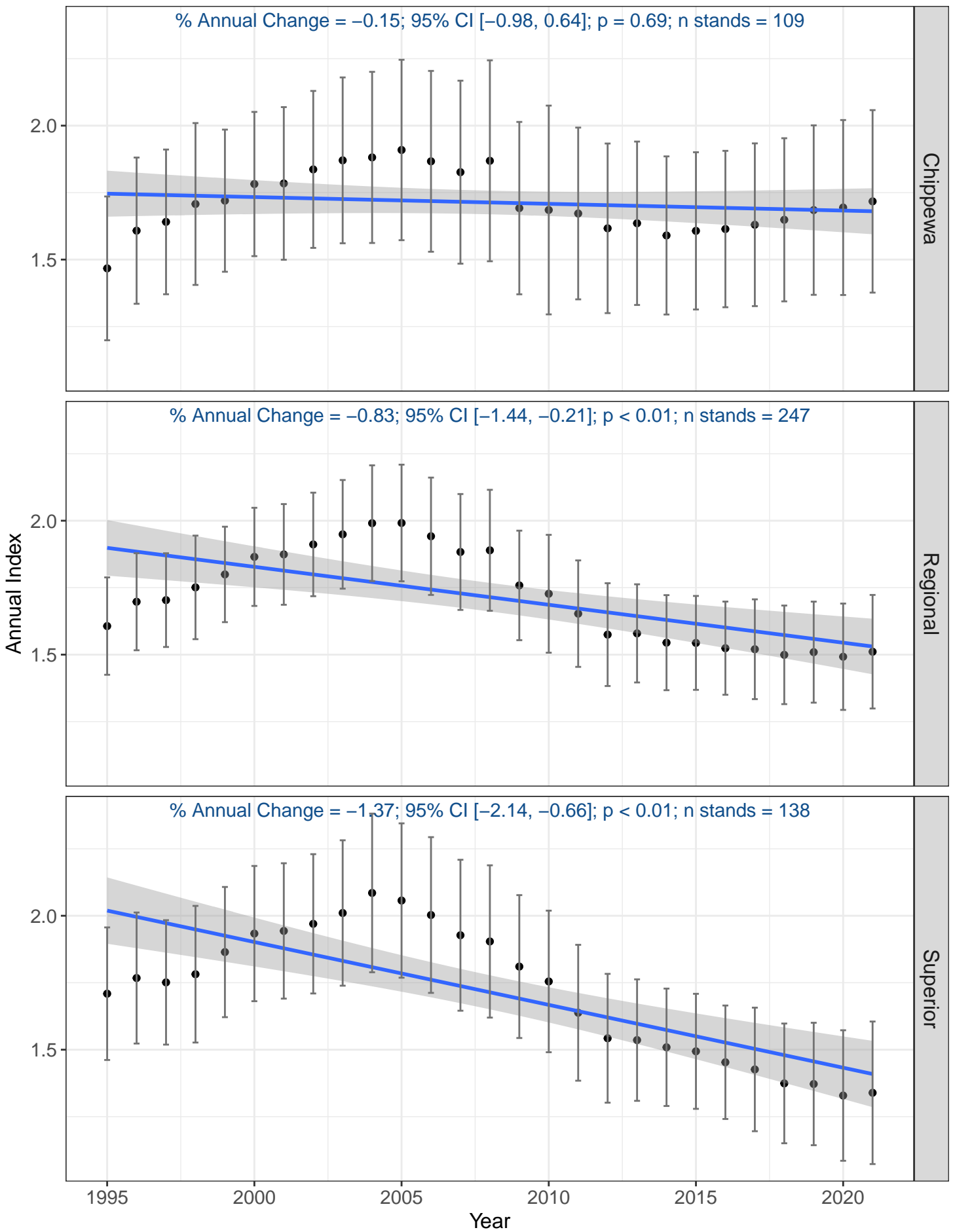
% Annual Change = 5.66; 95% CI [3.48, 7.57]; p < 0.01; n stands = 47



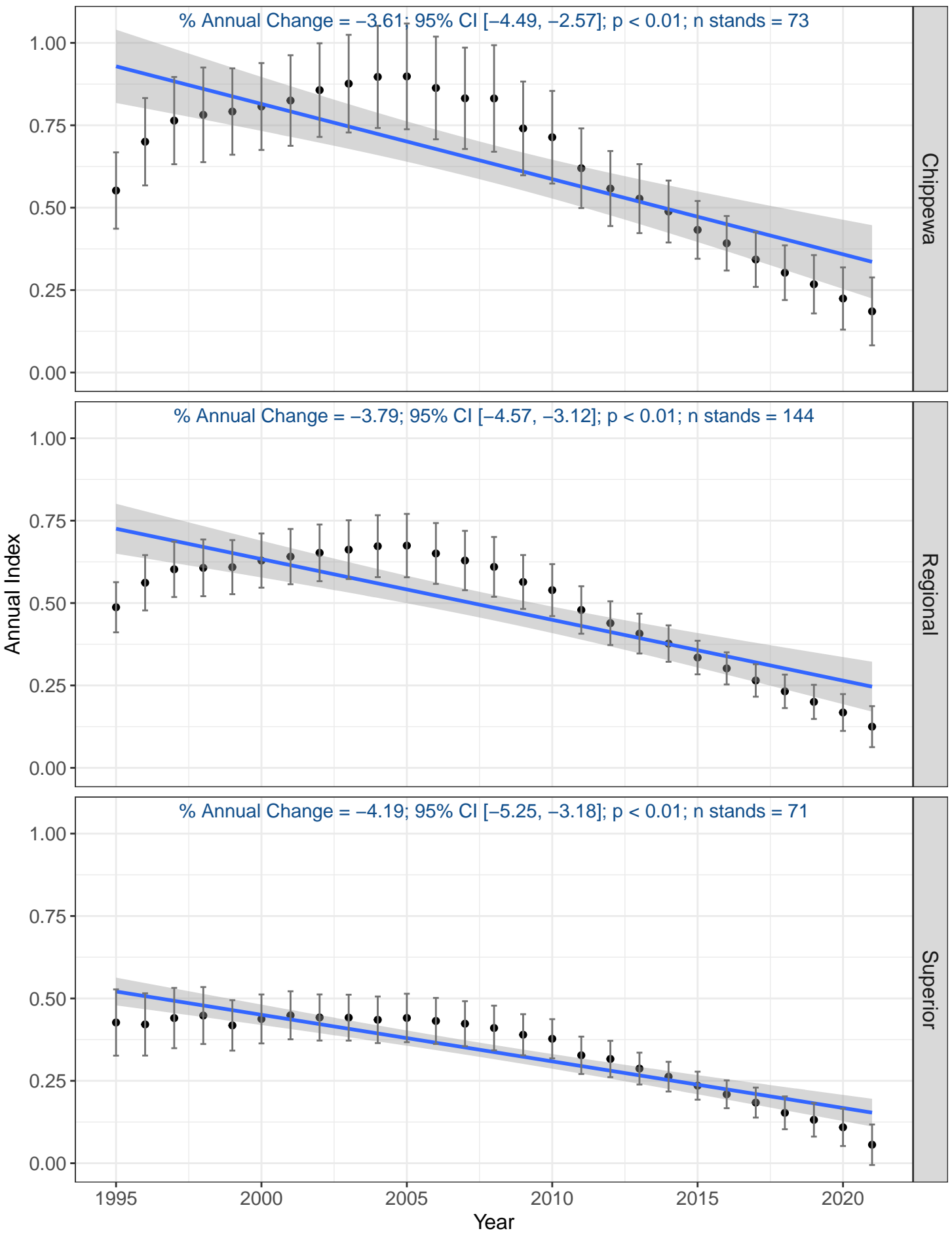
# Cedar Waxwing



# Chestnut-sided Warbler

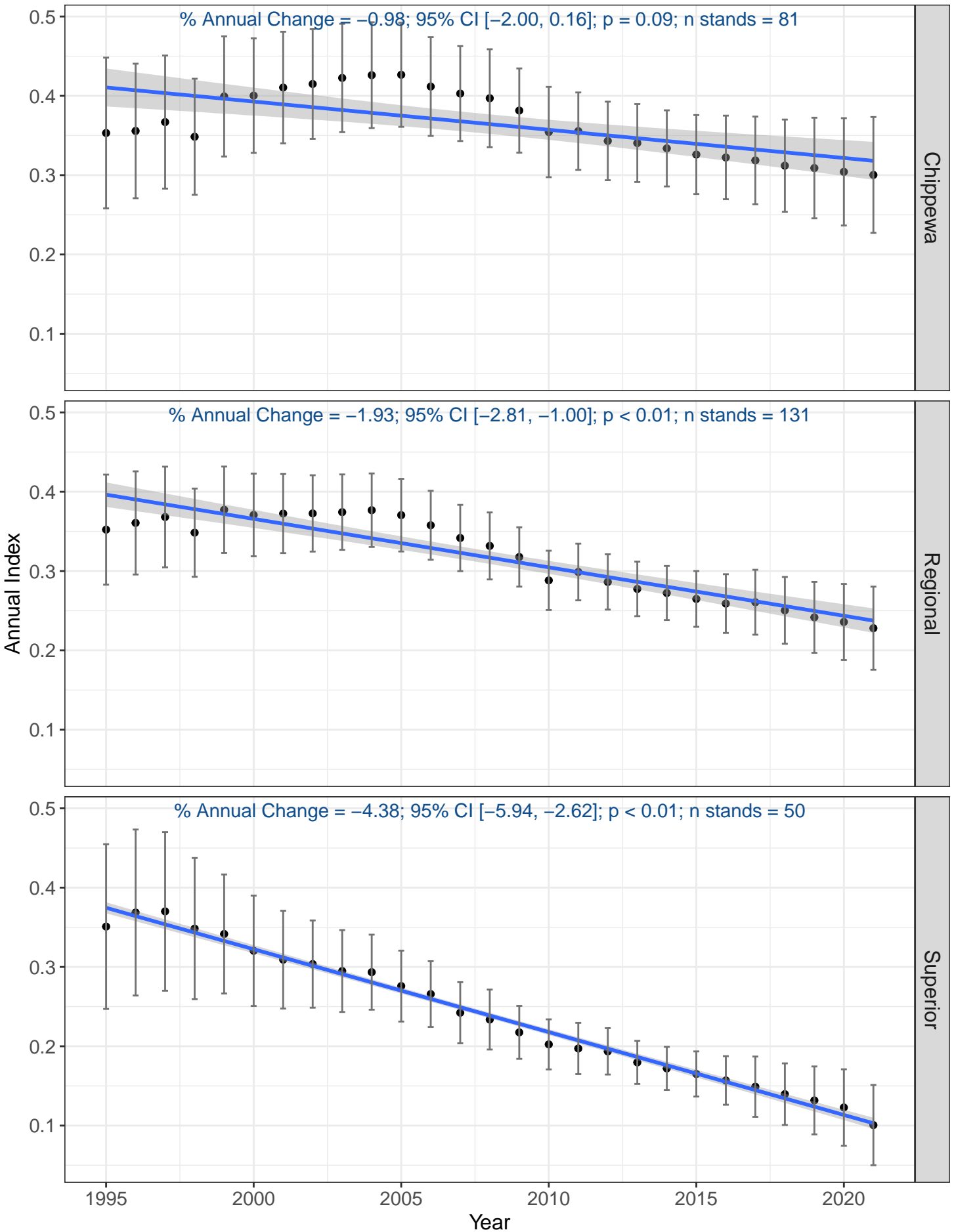


# Chipping Sparrow

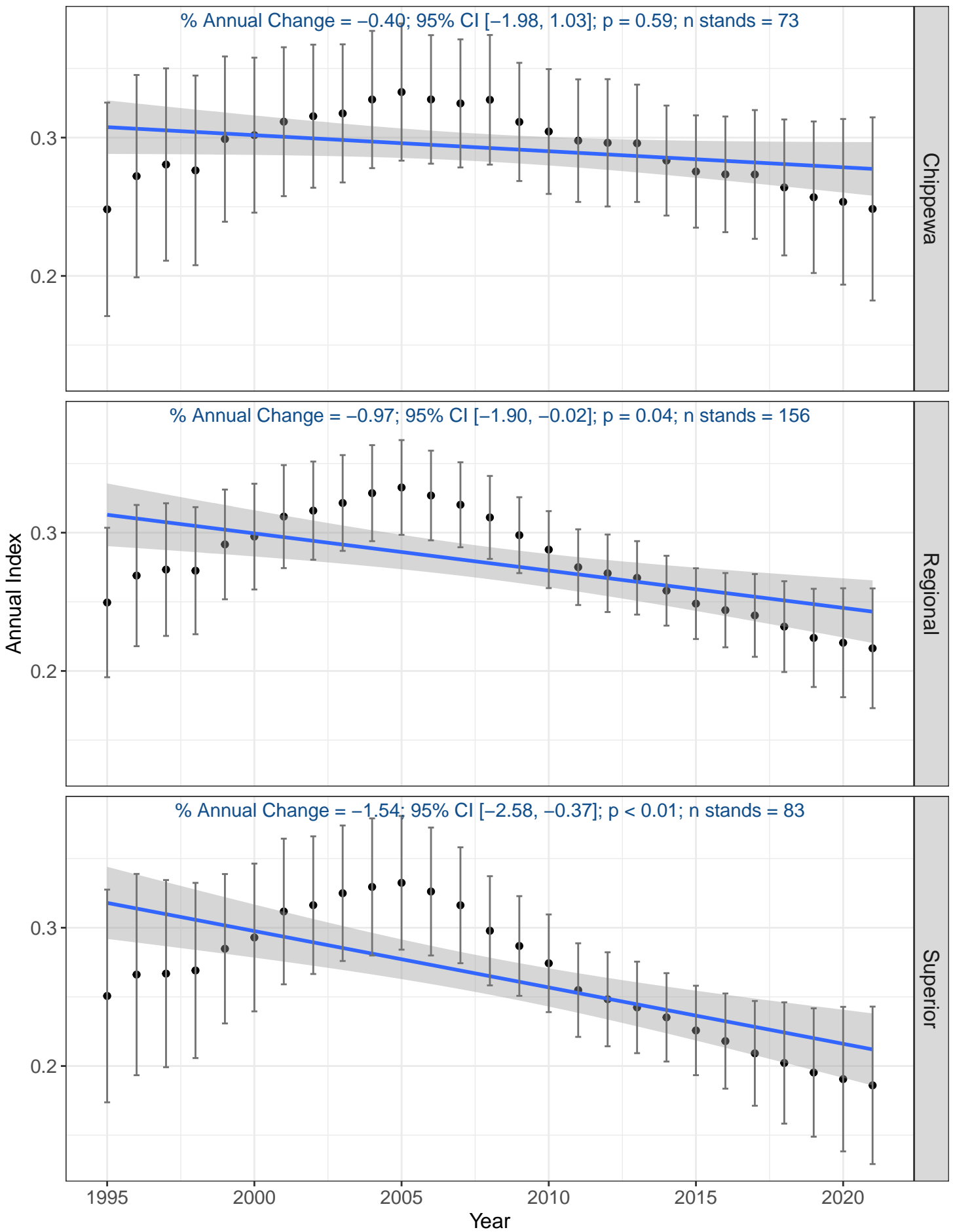




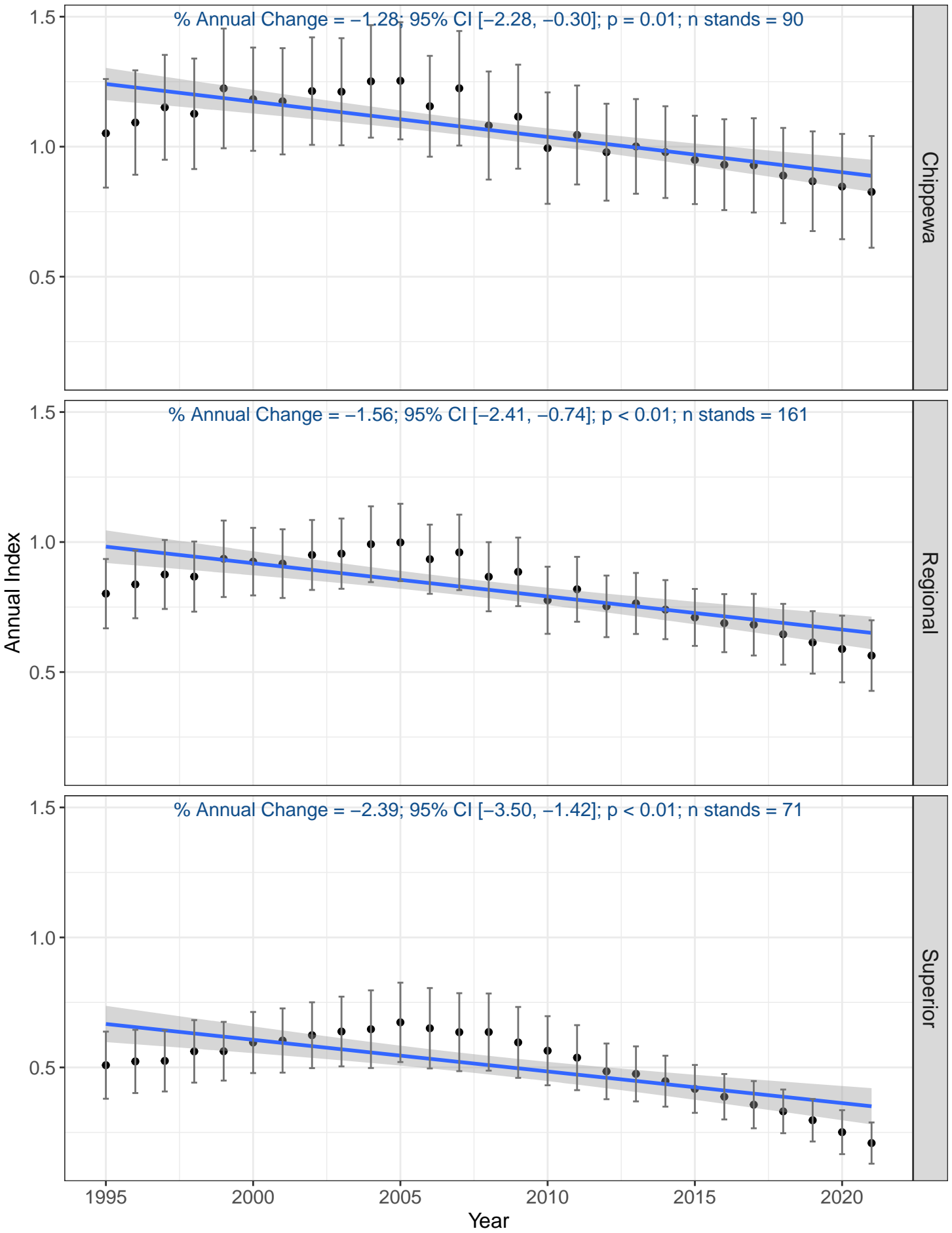
# Common Loon



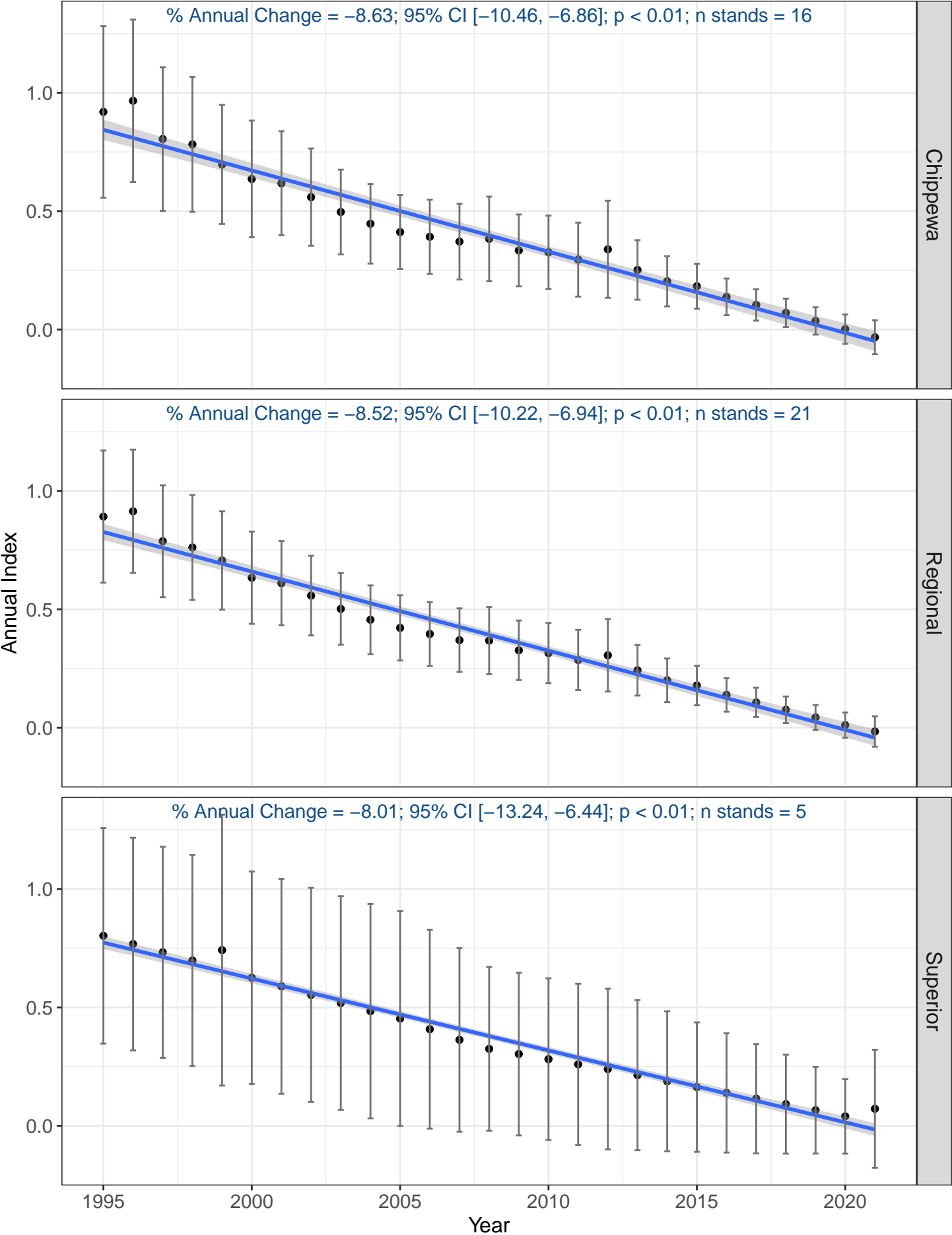
# Common Raven



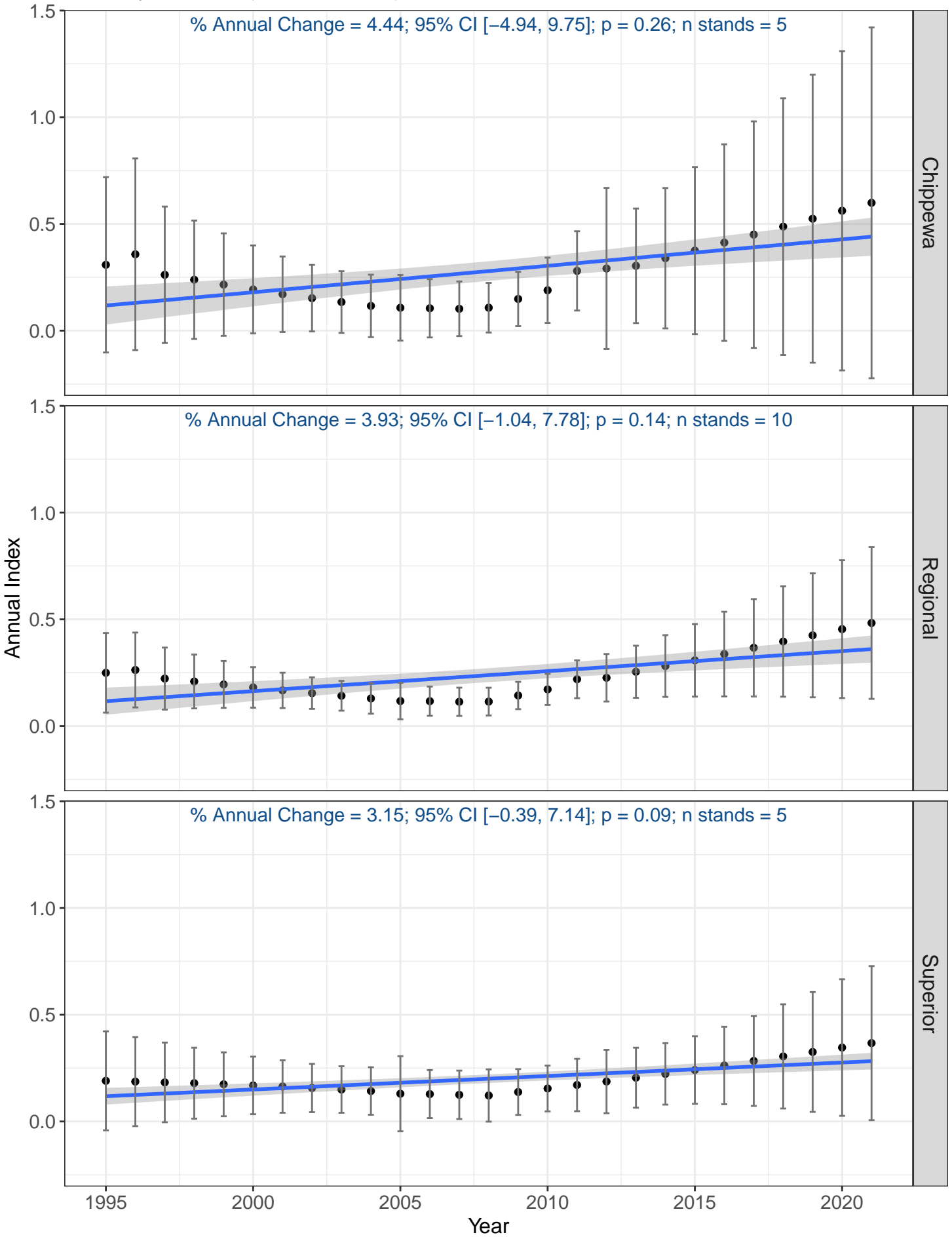
# Common Yellowthroat



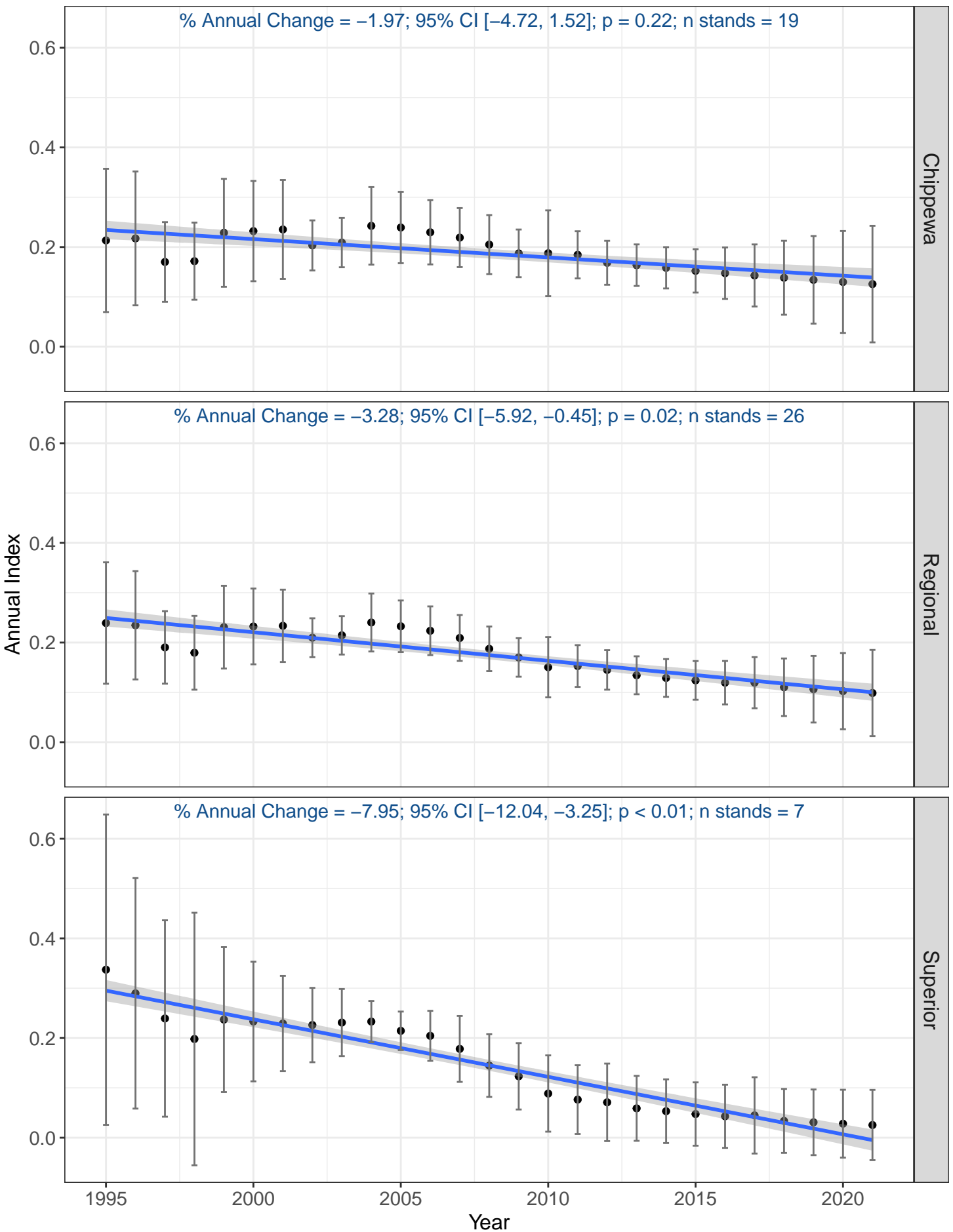
# Connecticut Warbler



# Dark-eyed Junco (Slate-colored)

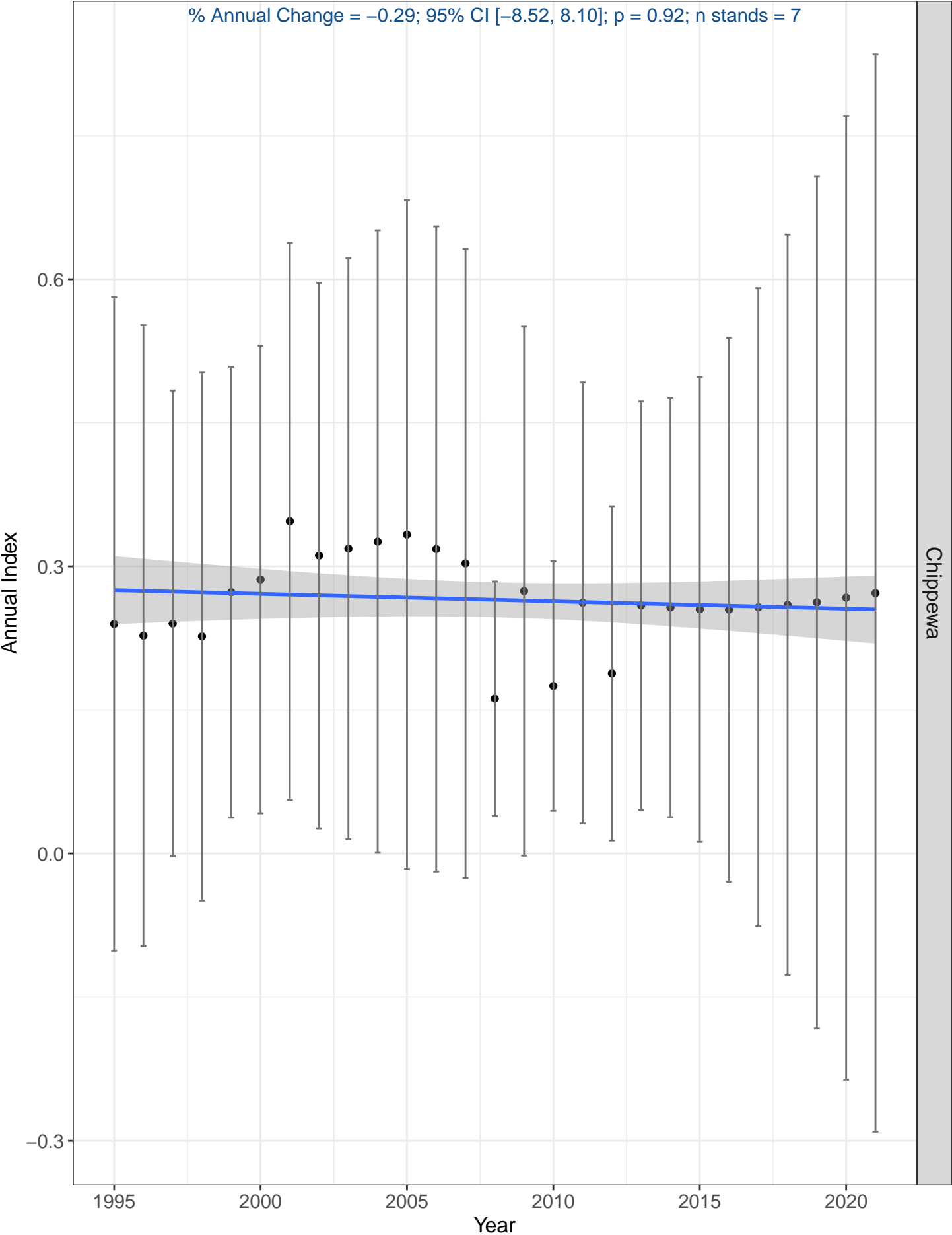


# Downy Woodpecker



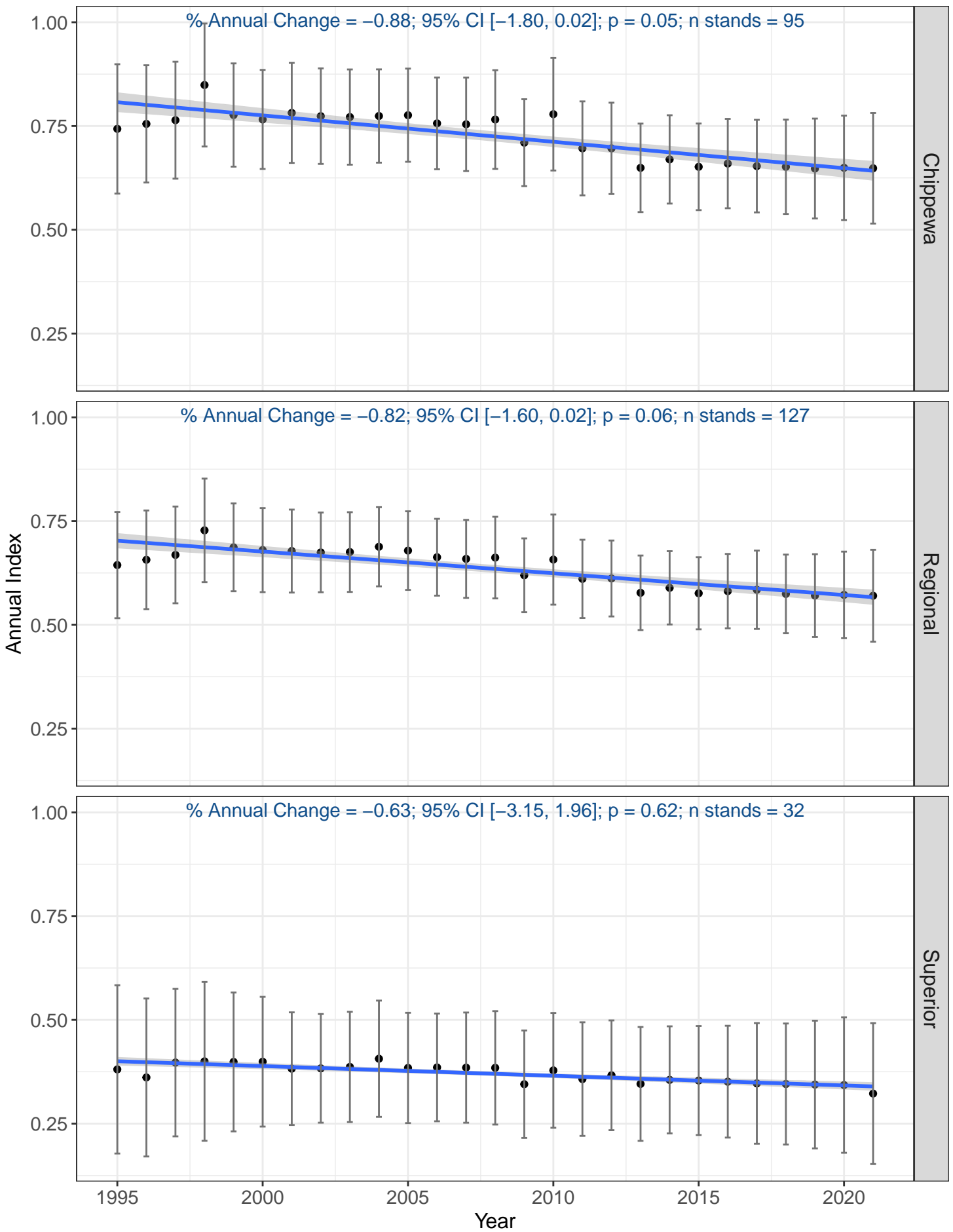
Eastern Towhee

% Annual Change = -0.29; 95% CI [-8.52, 8.10]; p = 0.92; n stands = 7



Chippewa

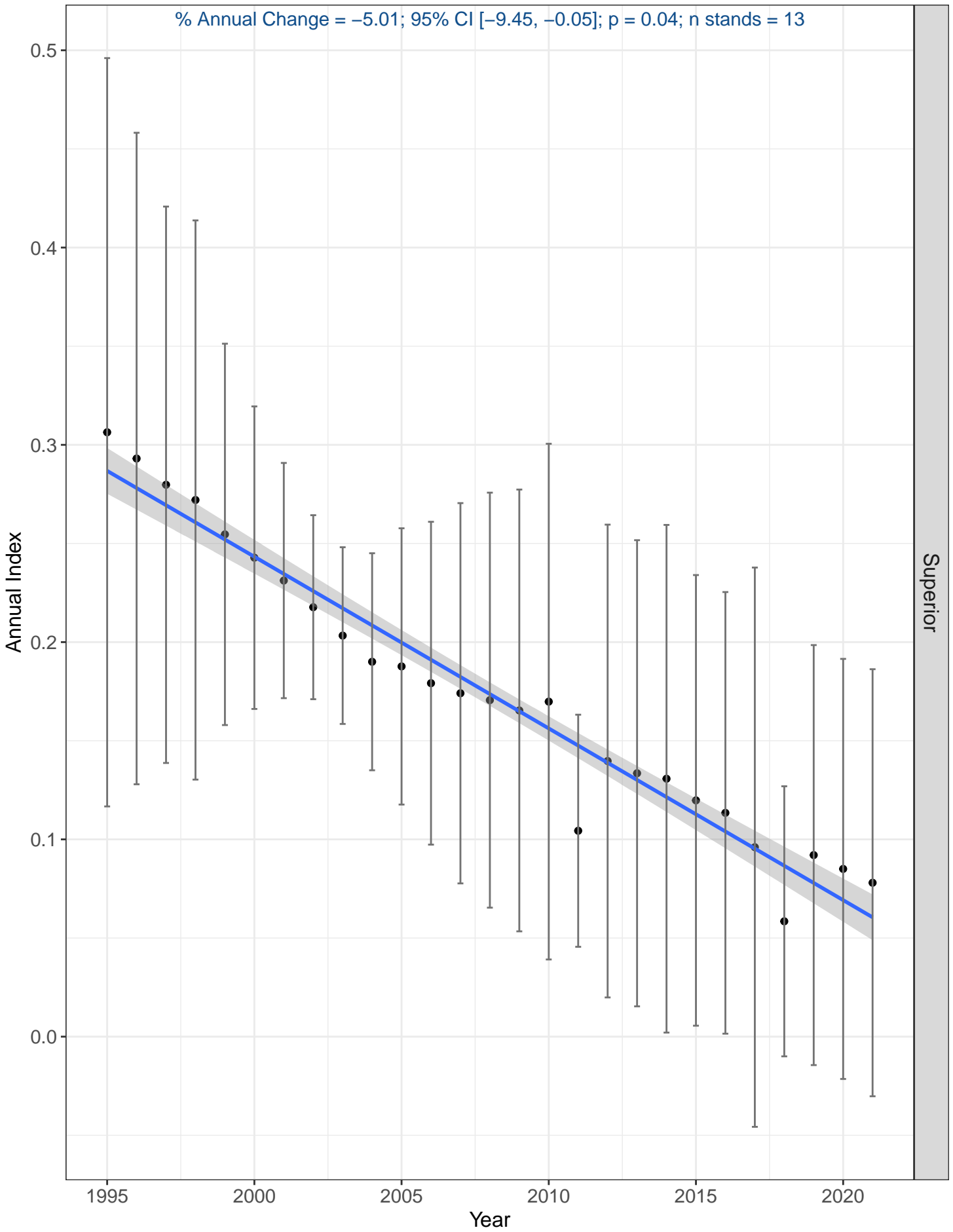
# Eastern Wood-Pewee





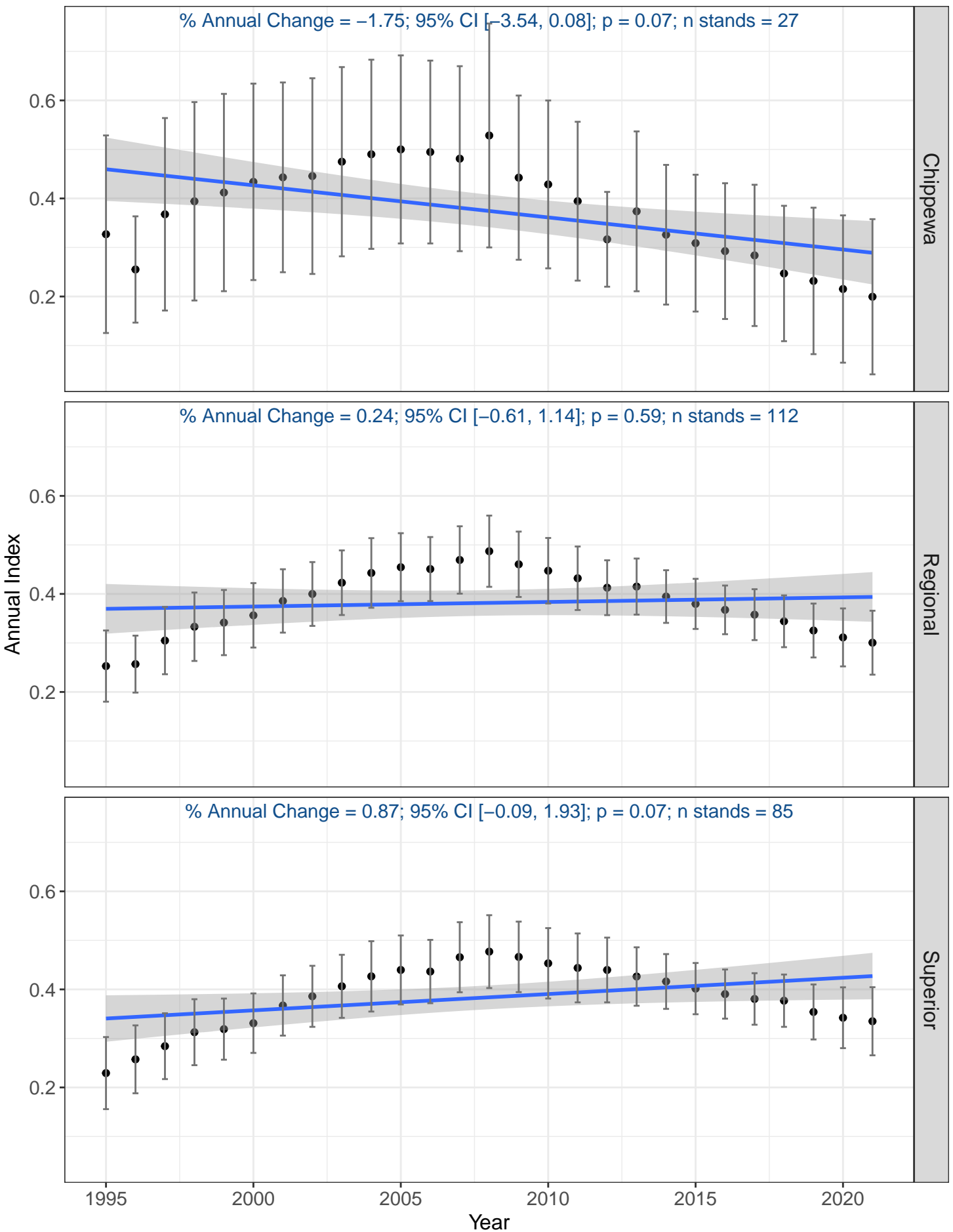
# Evening Grosbeak

% Annual Change = -5.01; 95% CI [-9.45, -0.05]; p = 0.04; n stands = 13

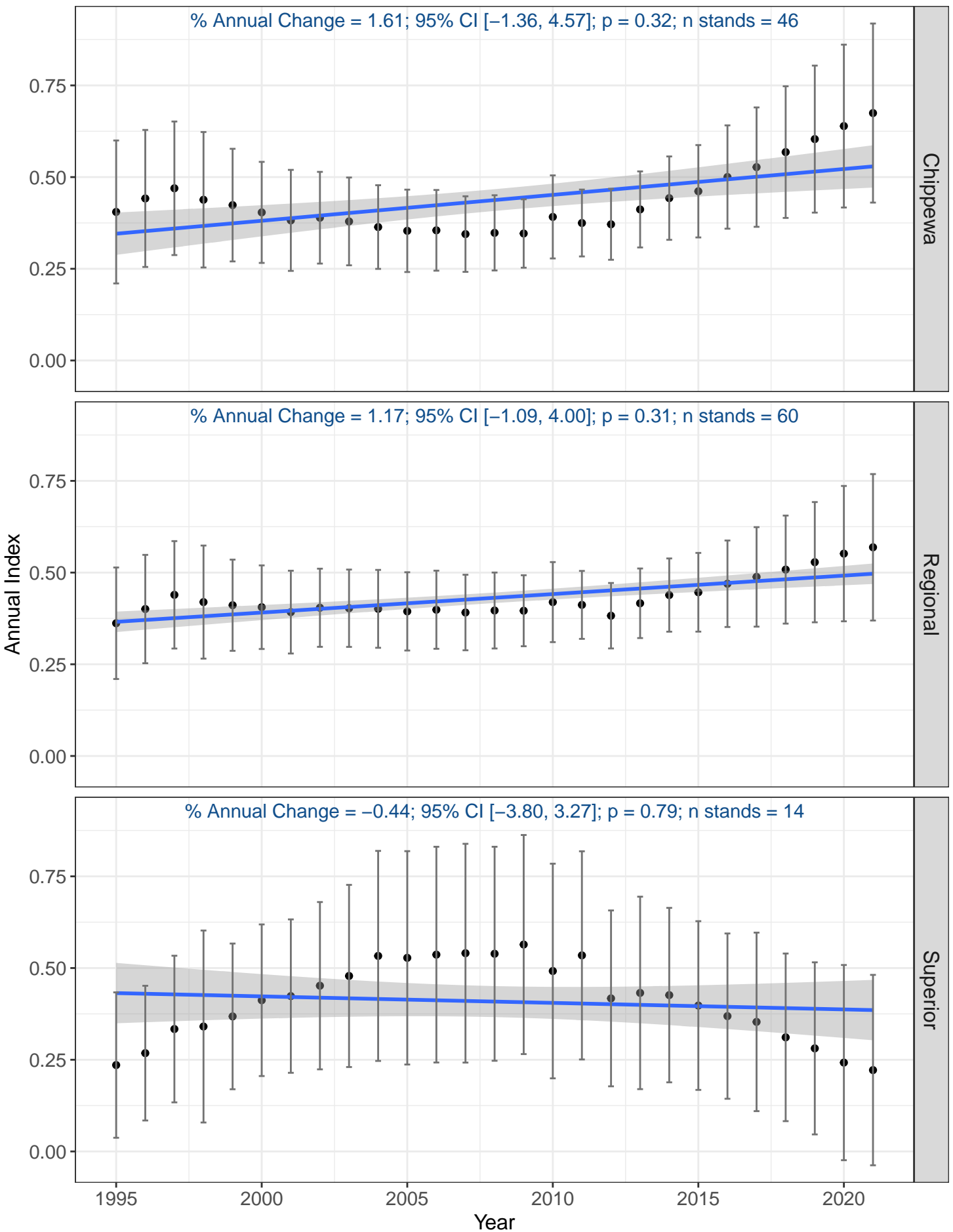


Superior

# Golden-crowned Kinglet

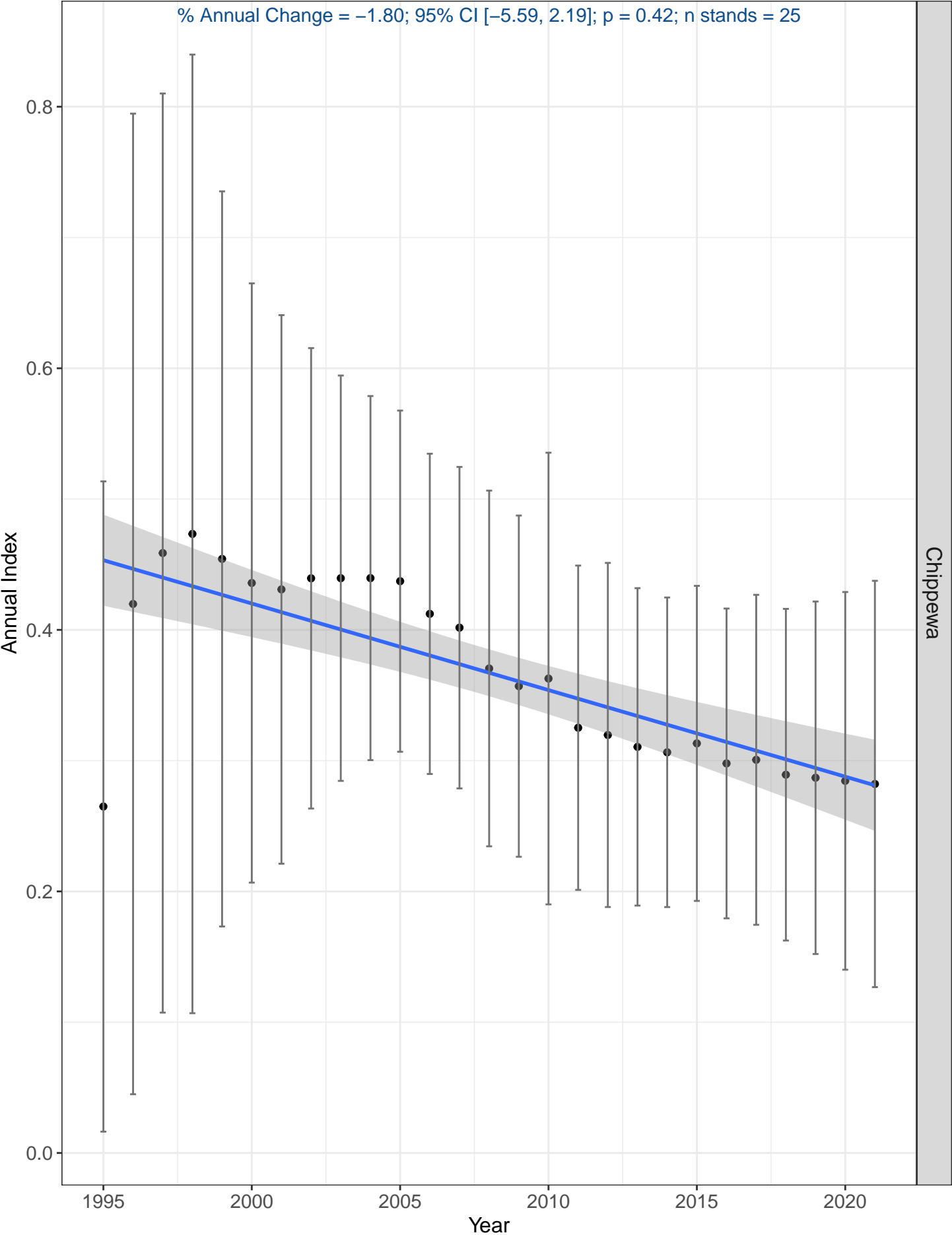


# Golden-winged Warbler



# Gray Catbird

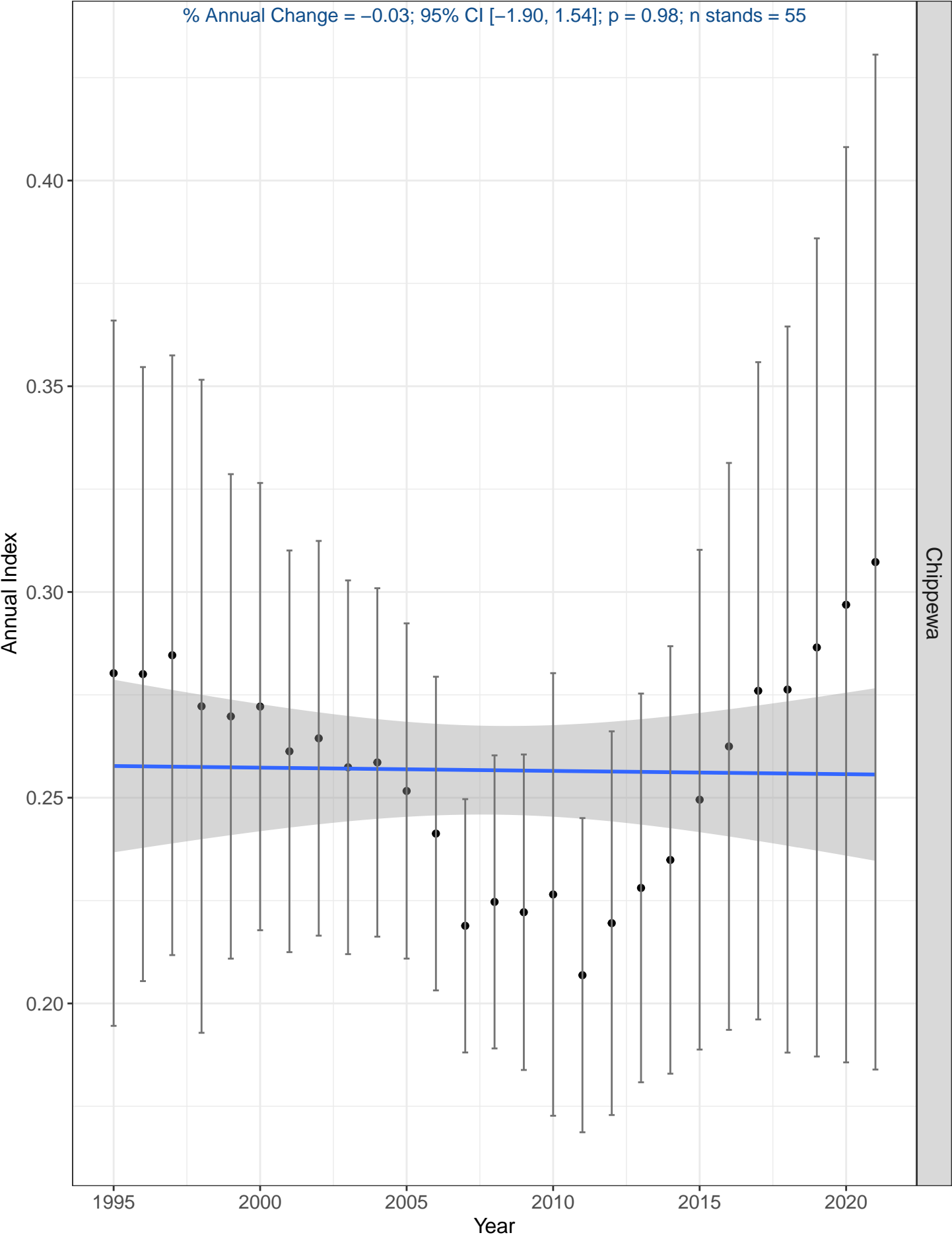
% Annual Change = -1.80; 95% CI [-5.59, 2.19]; p = 0.42; n stands = 25



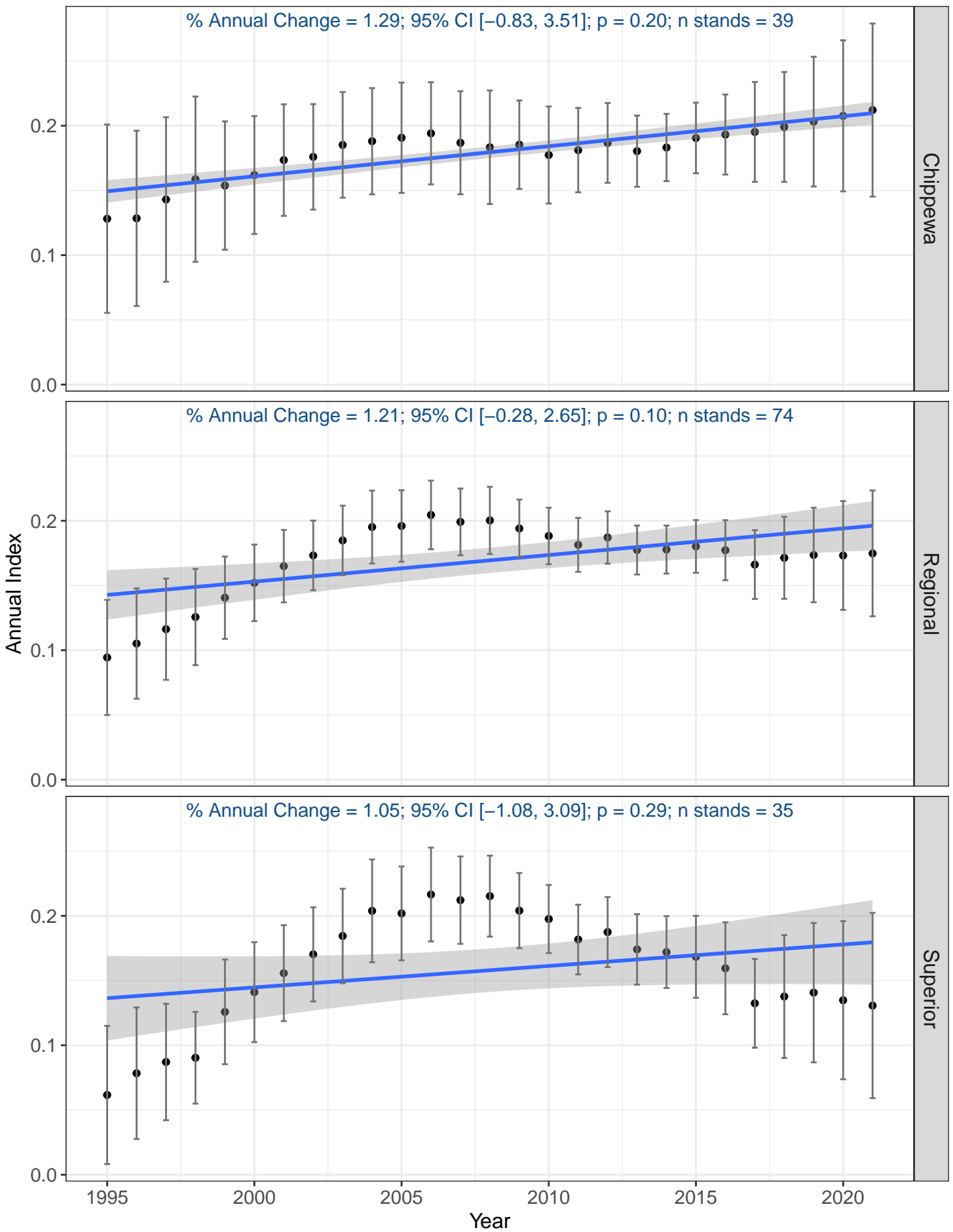
Chippewa

# Great Crested Flycatcher

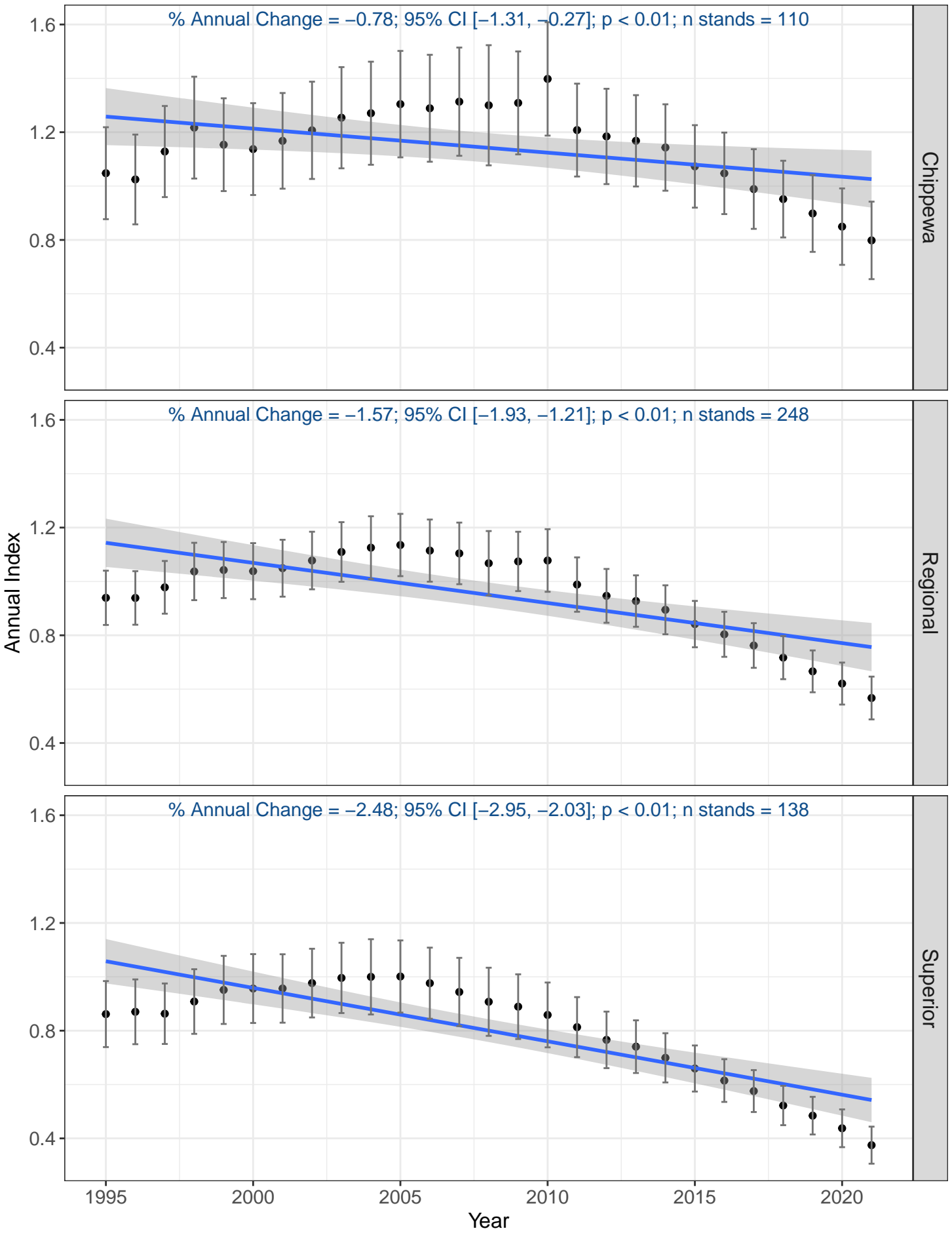
% Annual Change = -0.03; 95% CI [-1.90, 1.54]; p = 0.98; n stands = 55



# Hairy Woodpecker

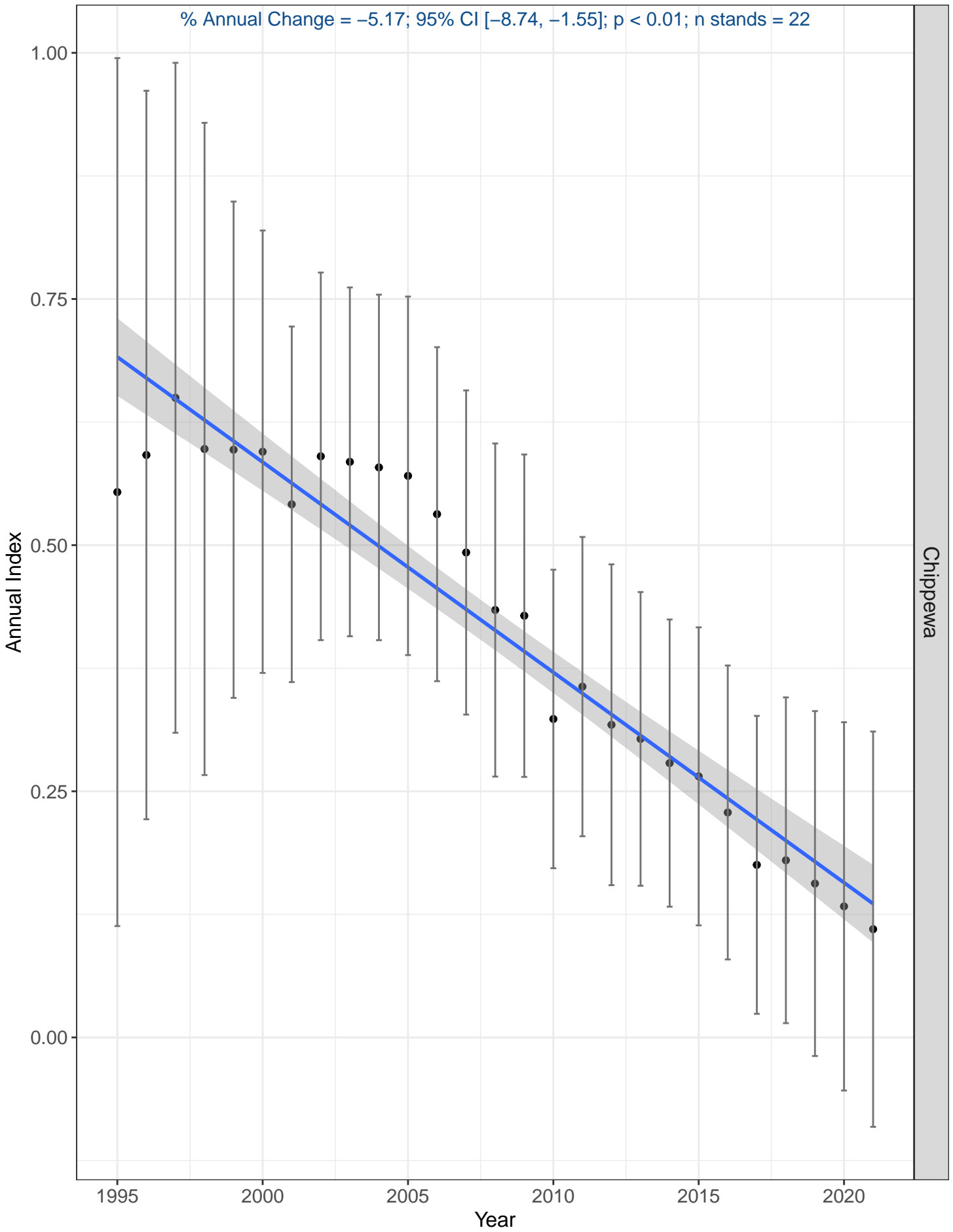


# Hermit Thrush



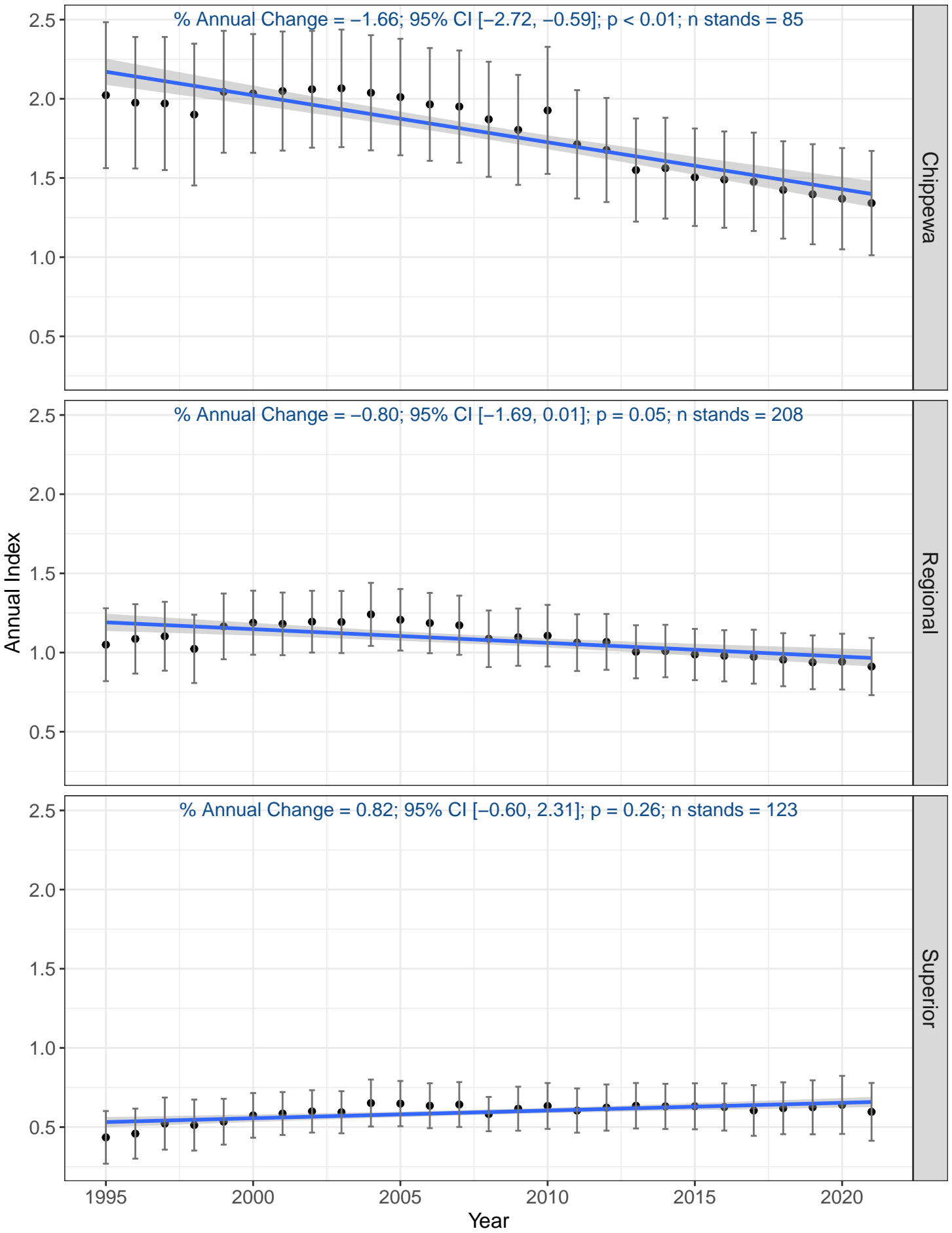
# Indigo Bunting

% Annual Change = -5.17; 95% CI [-8.74, -1.55]; p < 0.01; n stands = 22

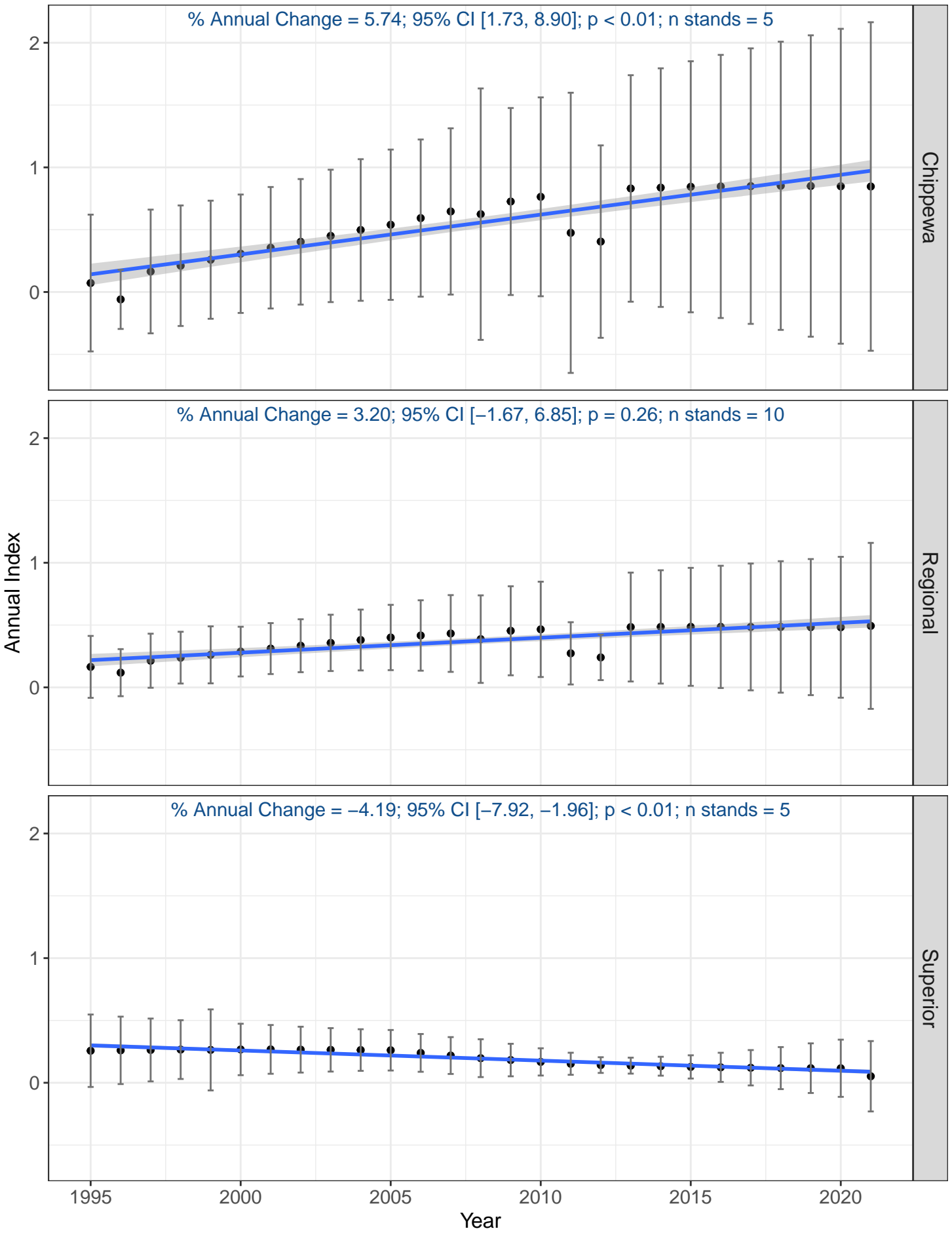




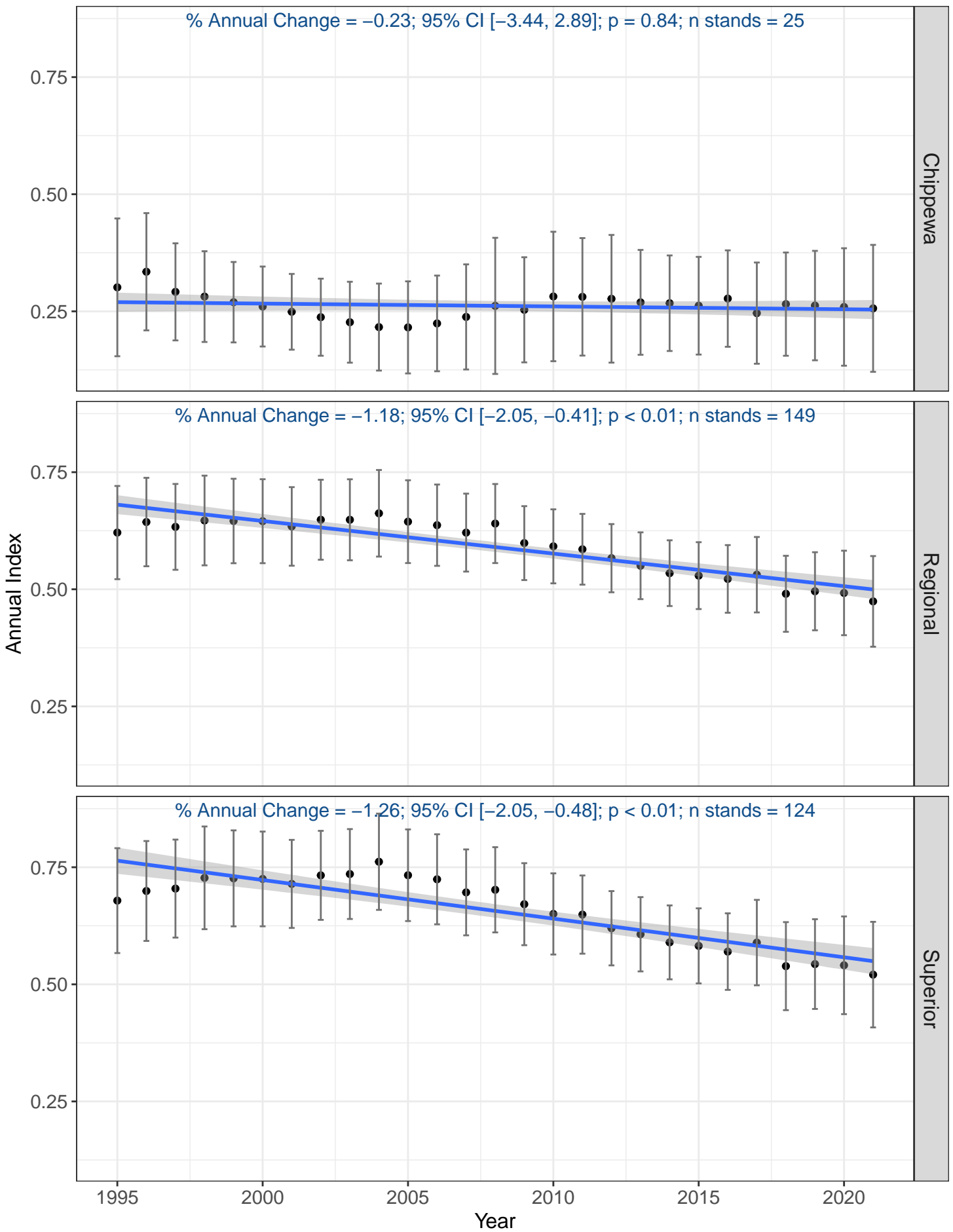
# Least Flycatcher



# Lincoln's Sparrow

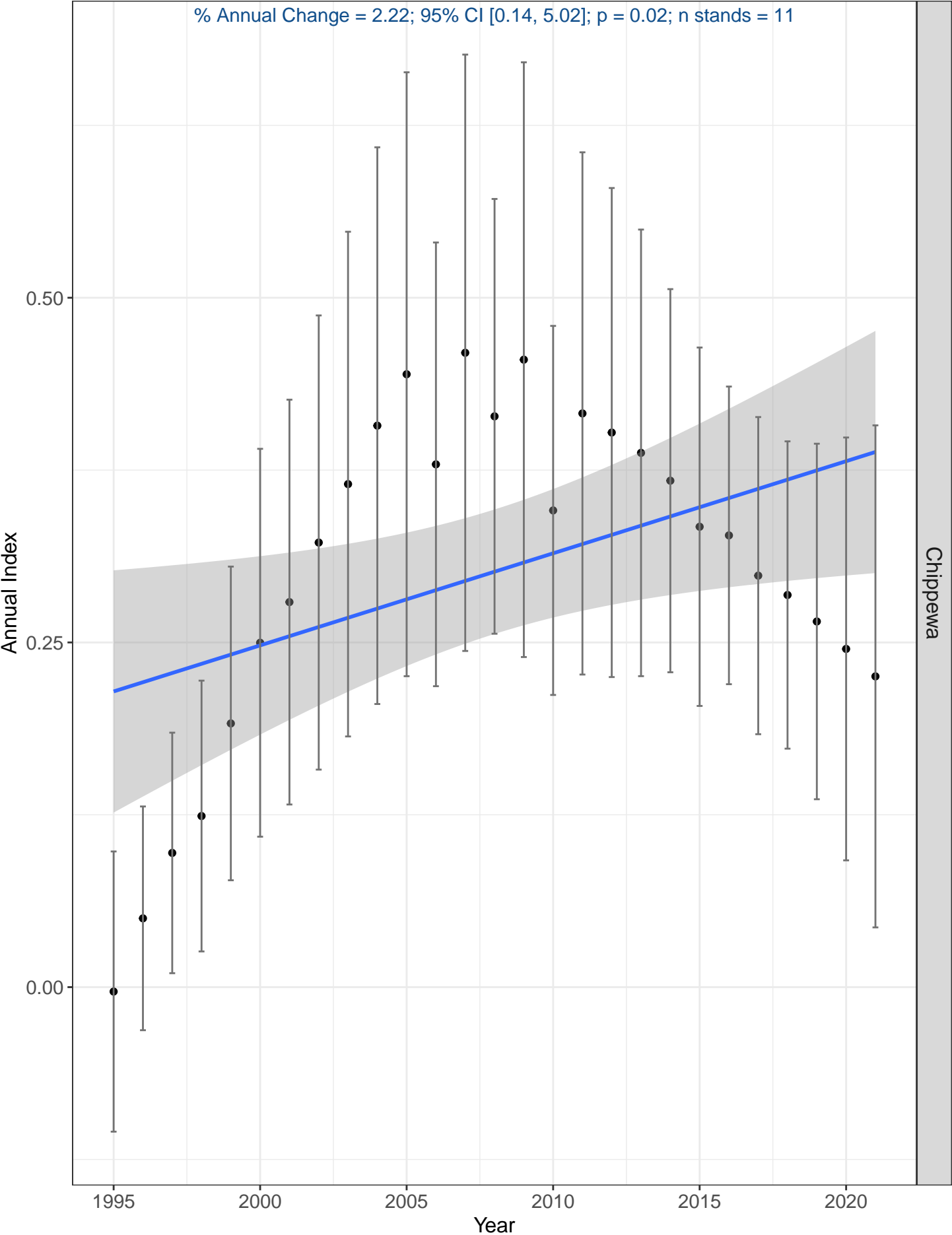


# Magnolia Warbler

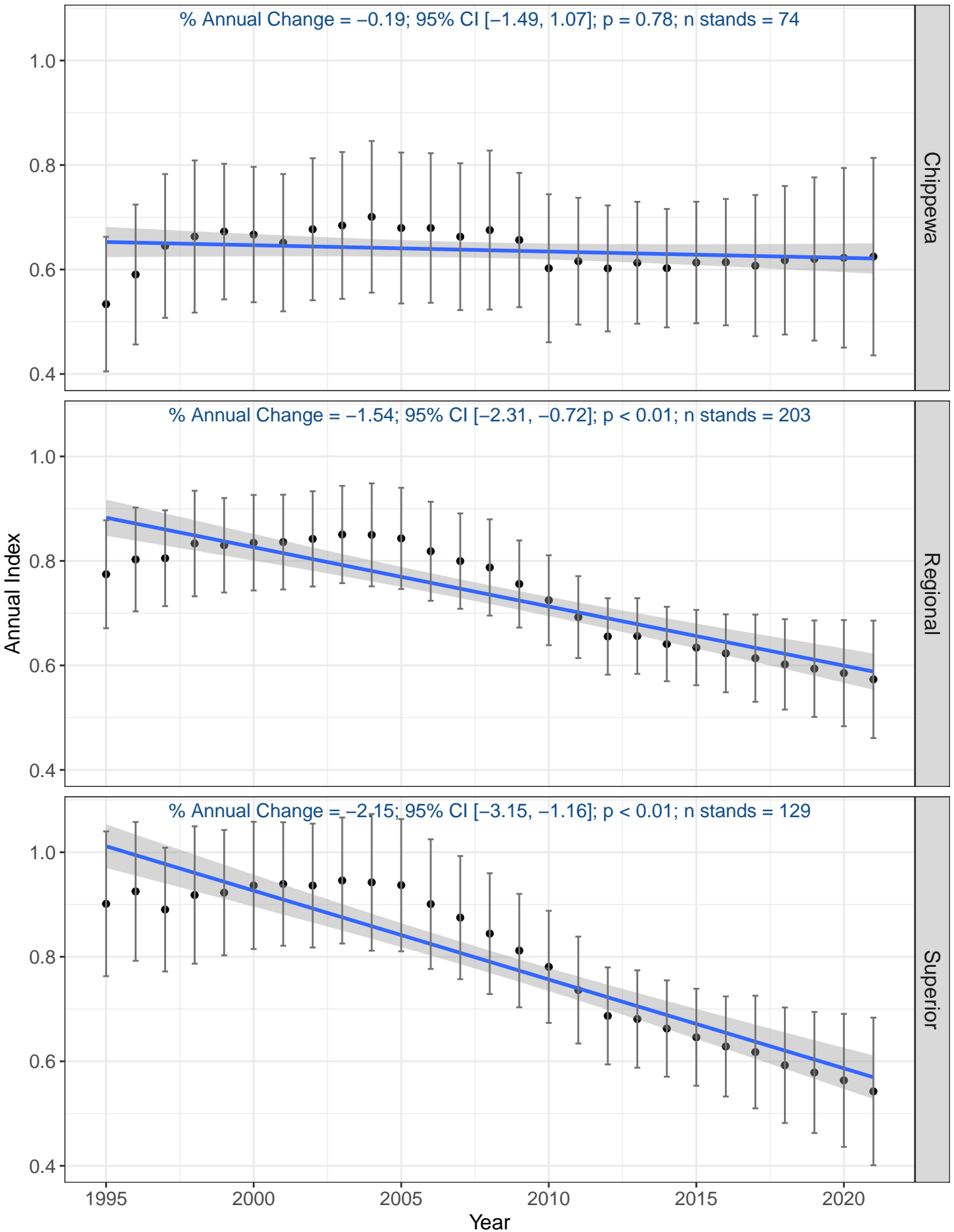


# Mourning Dove

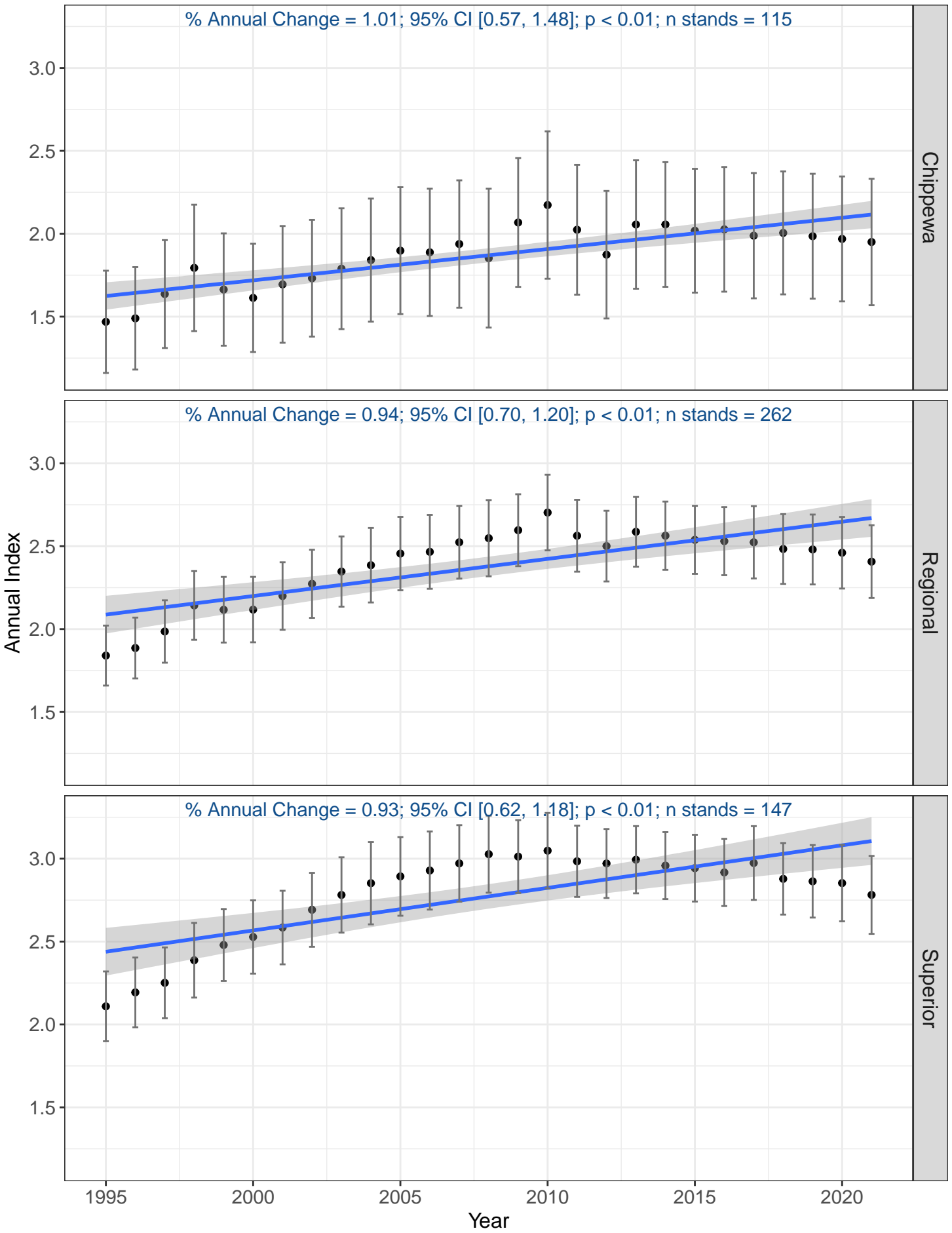
% Annual Change = 2.22; 95% CI [0.14, 5.02]; p = 0.02; n stands = 11



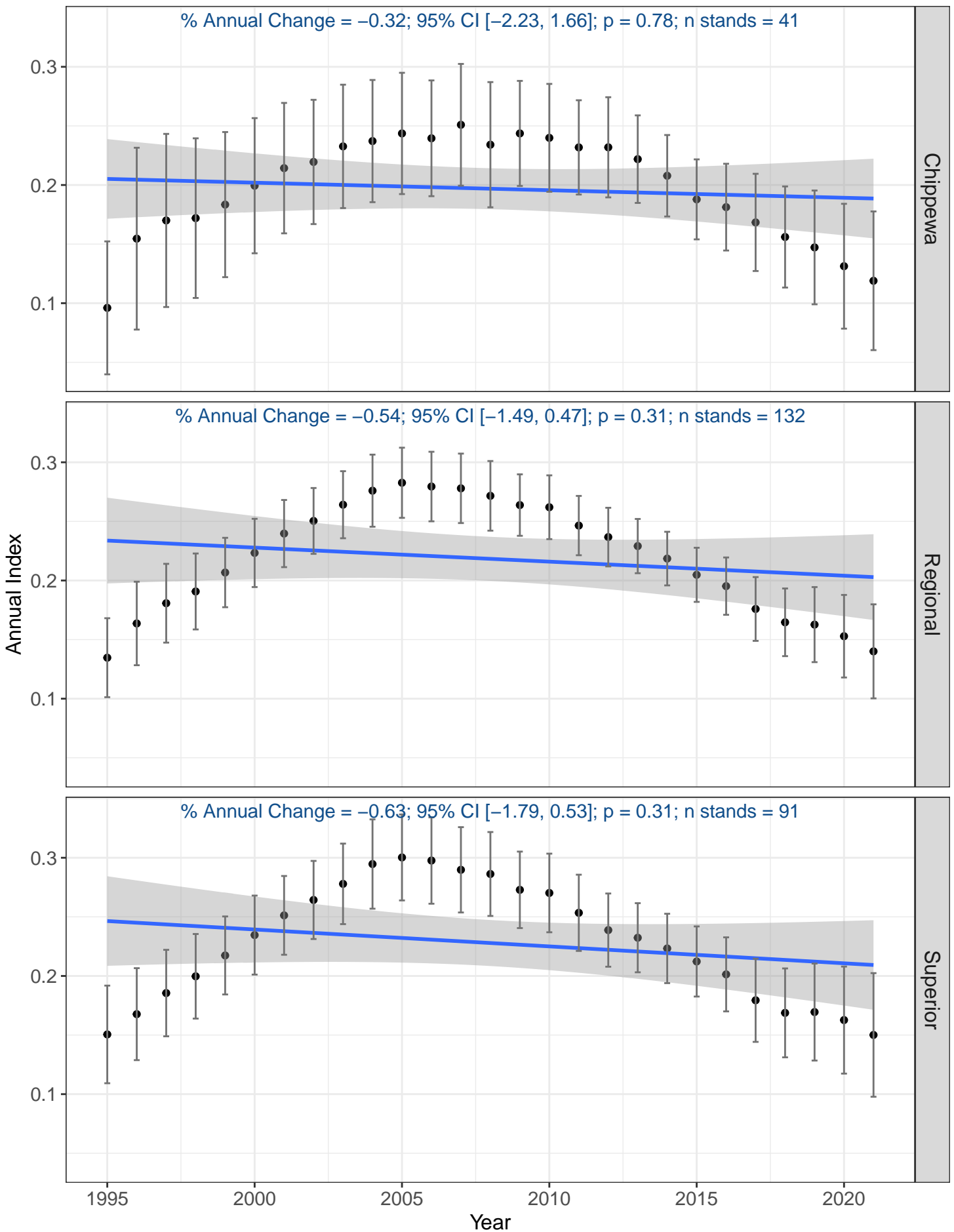
# Mourning Warbler



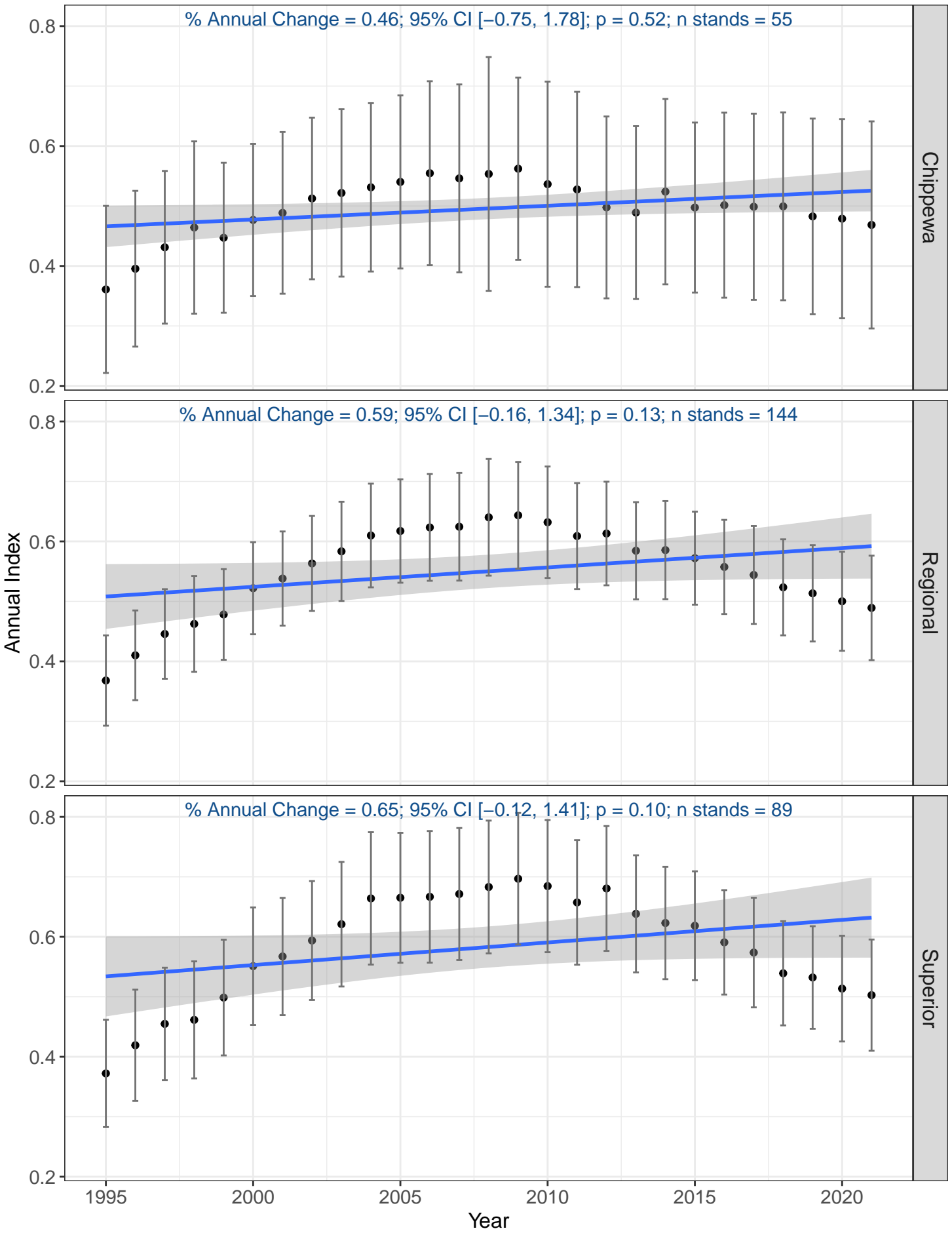
# Nashville Warbler



# Northern Flicker (Yellow-shafted)

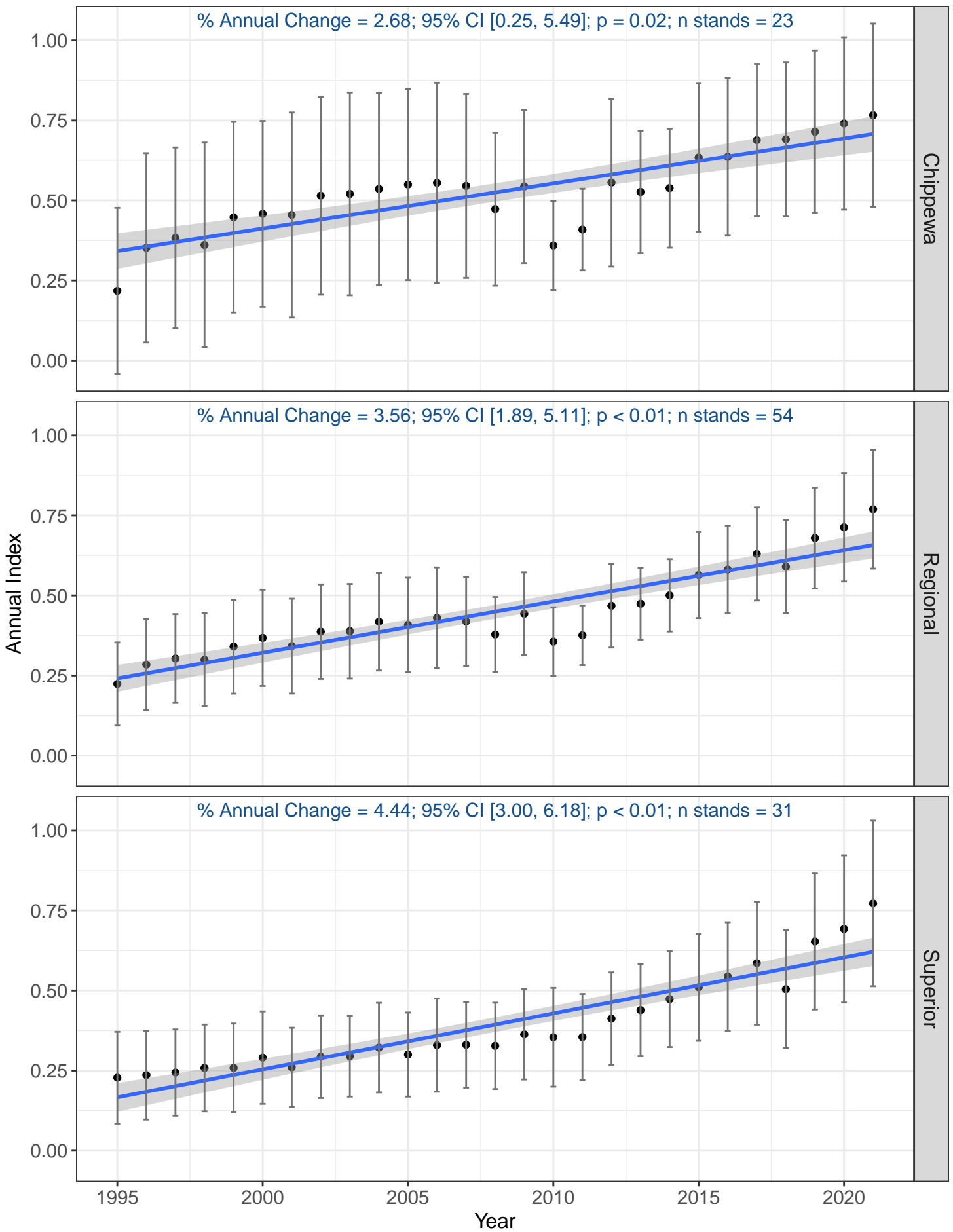


# Northern Parula

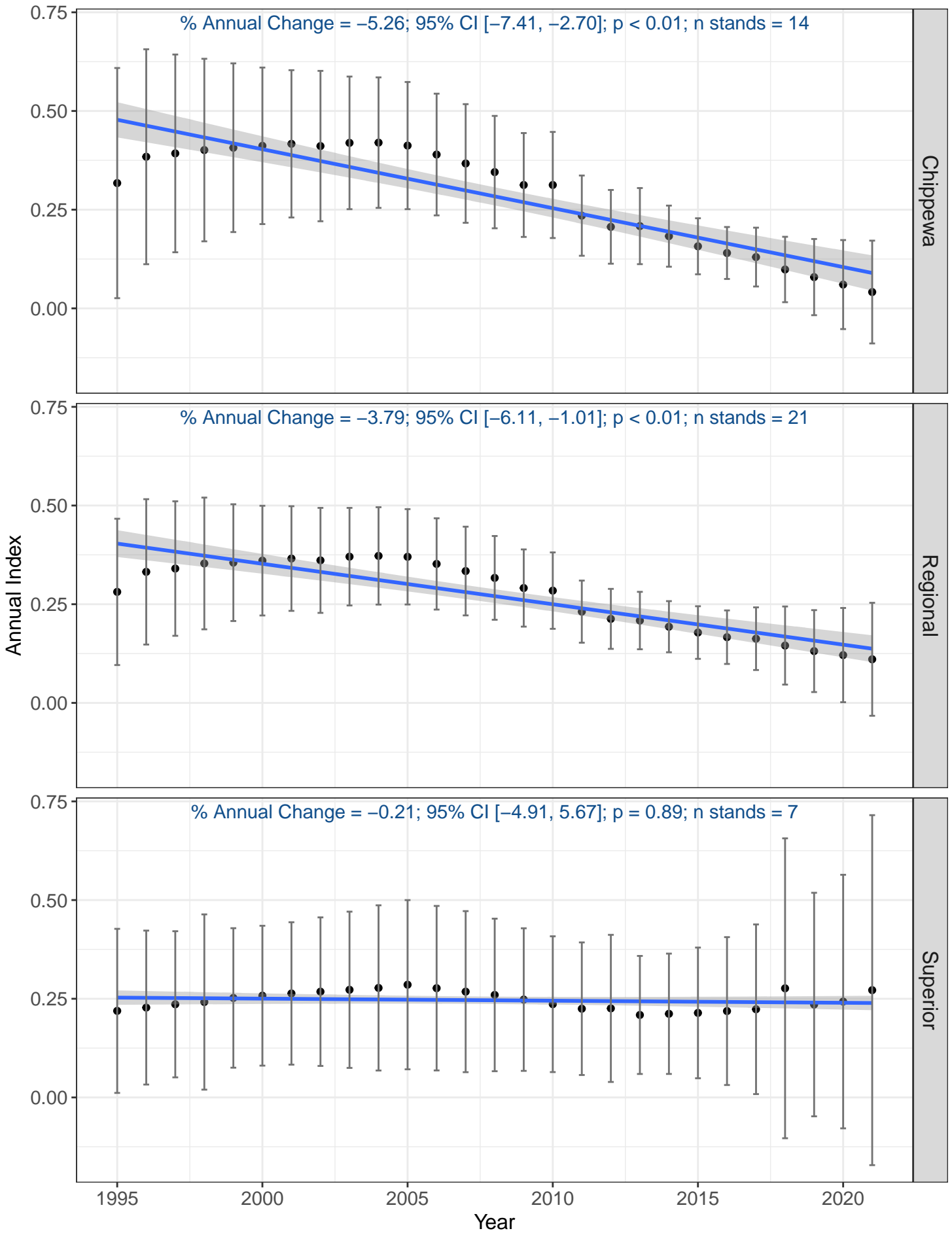




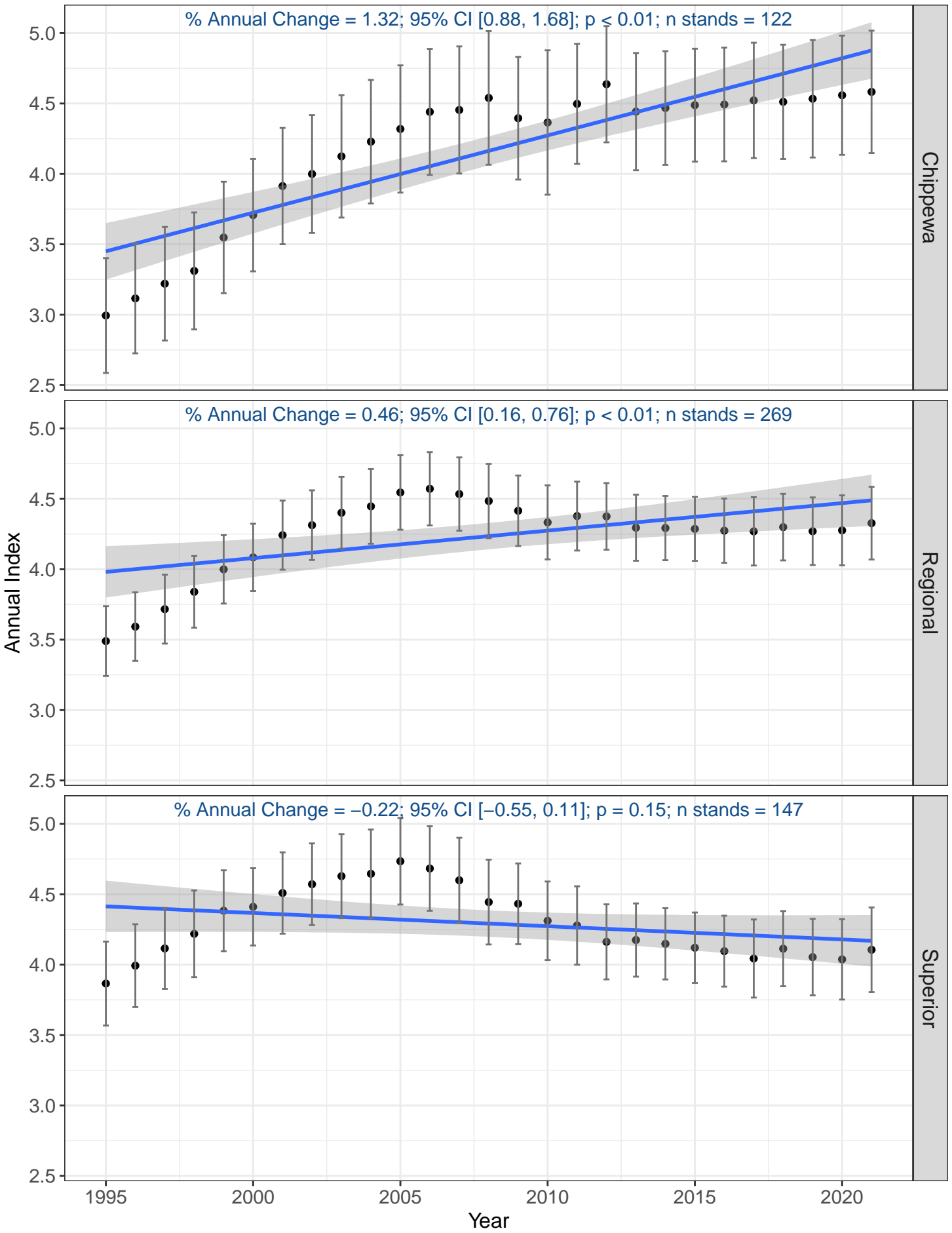
# Northern Waterthrush



# Olive-sided Flycatcher

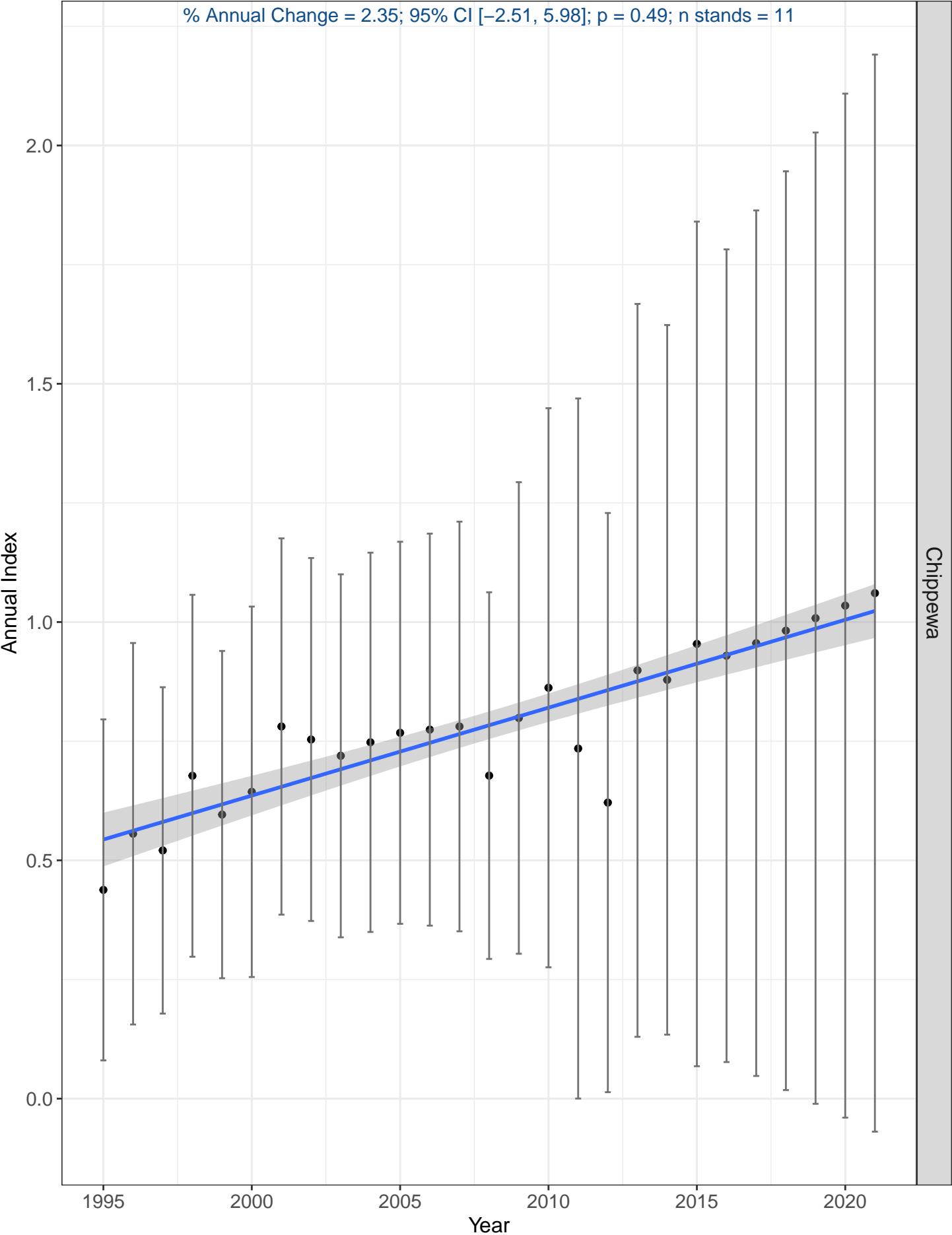


# Ovenbird

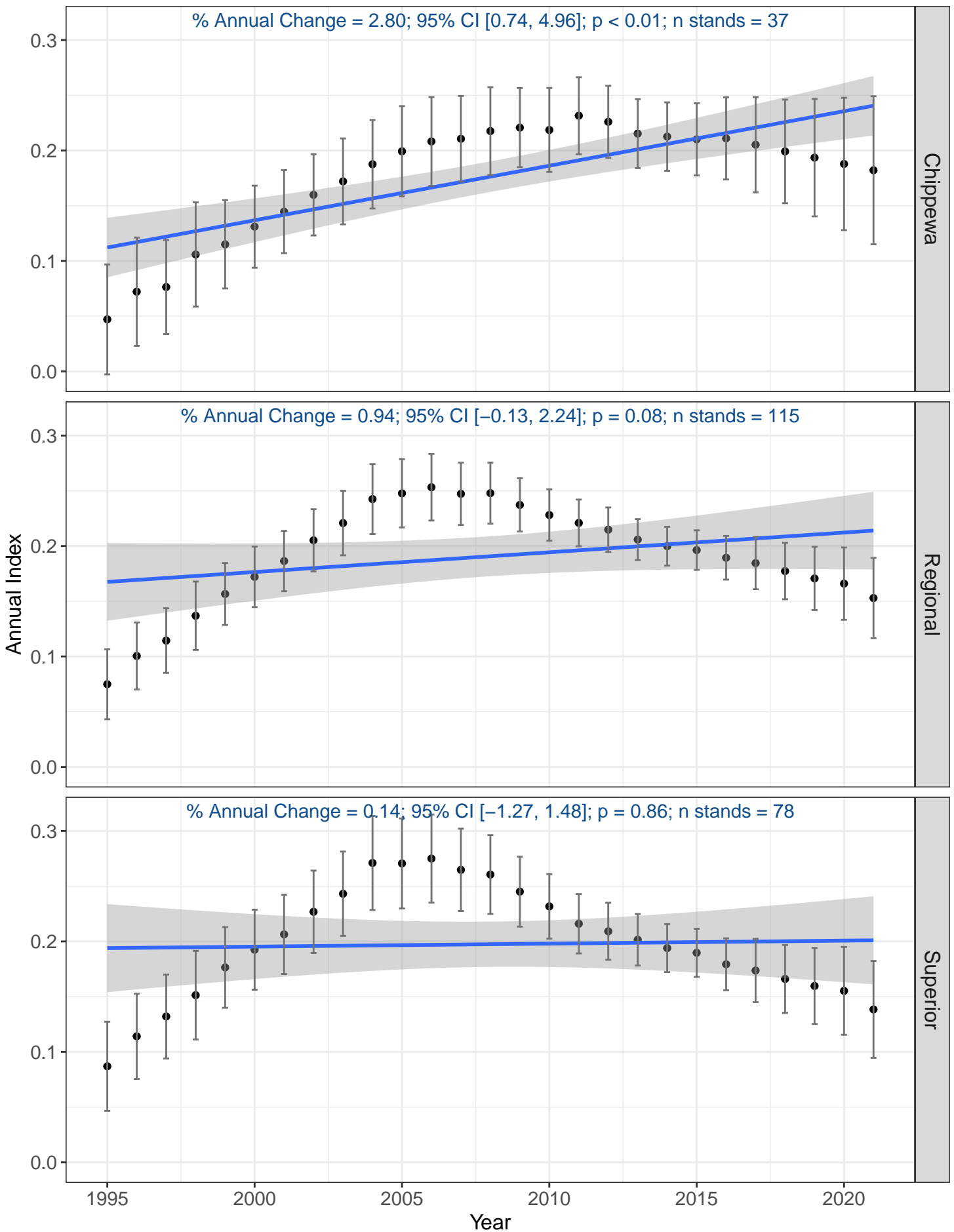


Palm Warbler (Western)

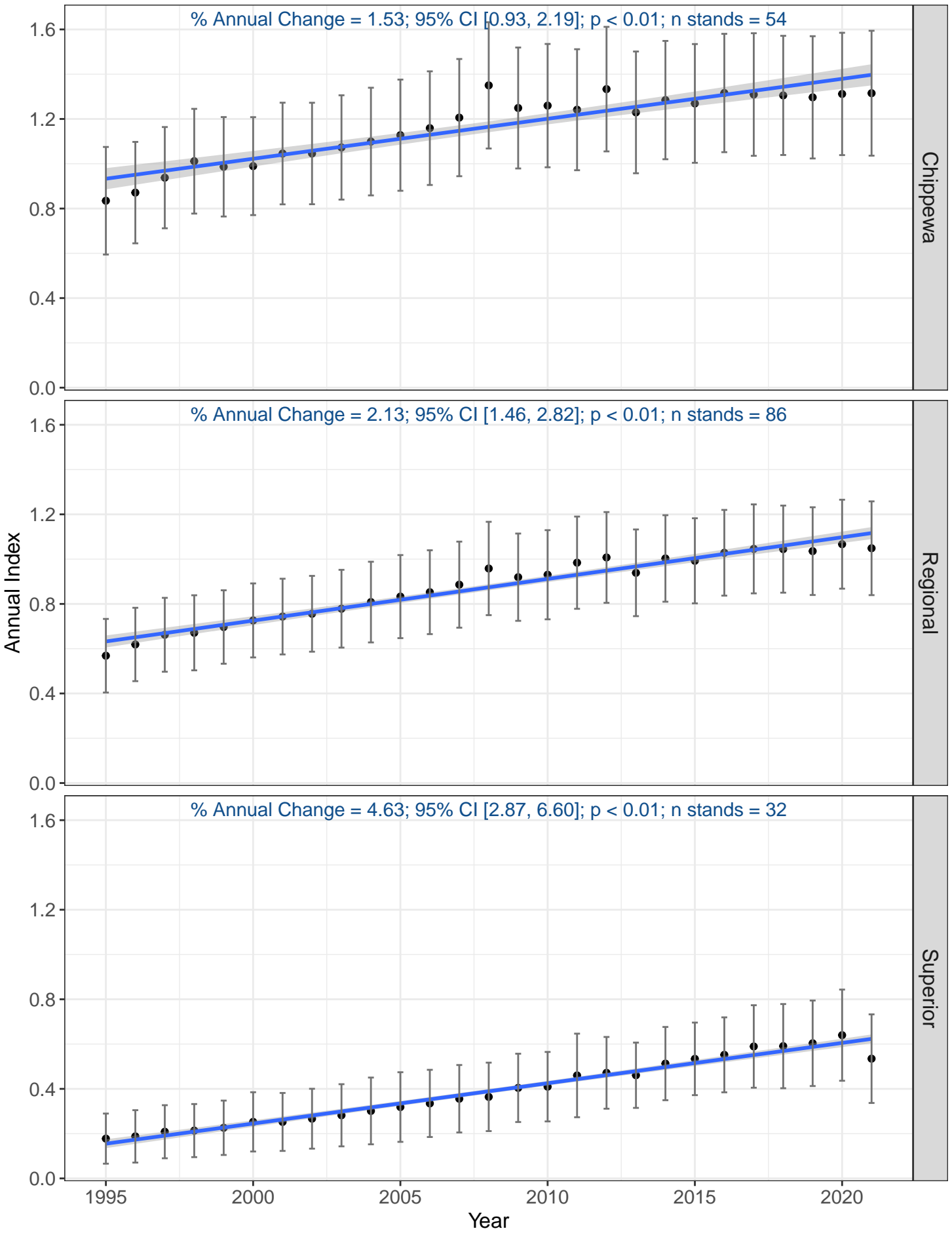
% Annual Change = 2.35; 95% CI [-2.51, 5.98]; p = 0.49; n stands = 11



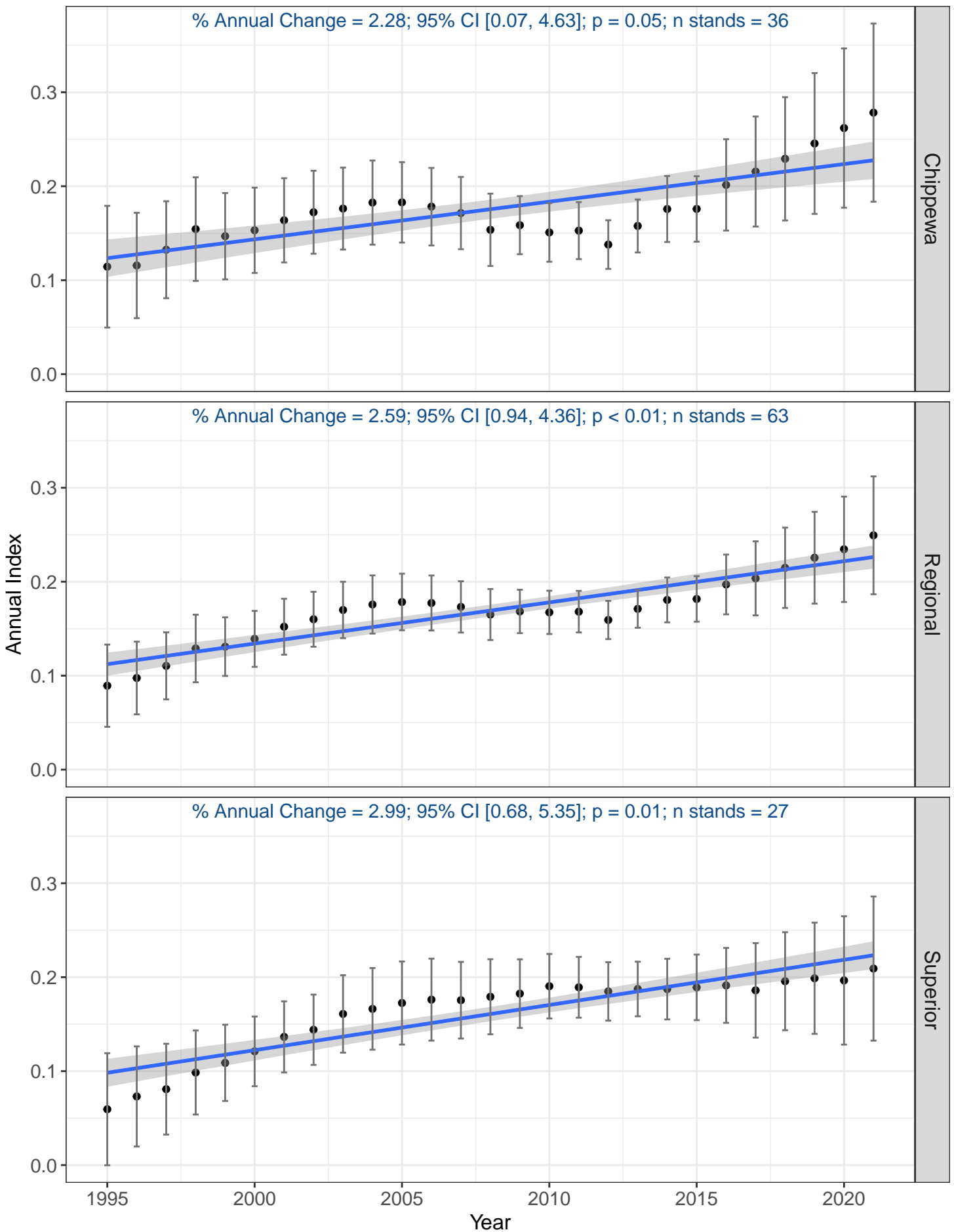
# Pileated Woodpecker



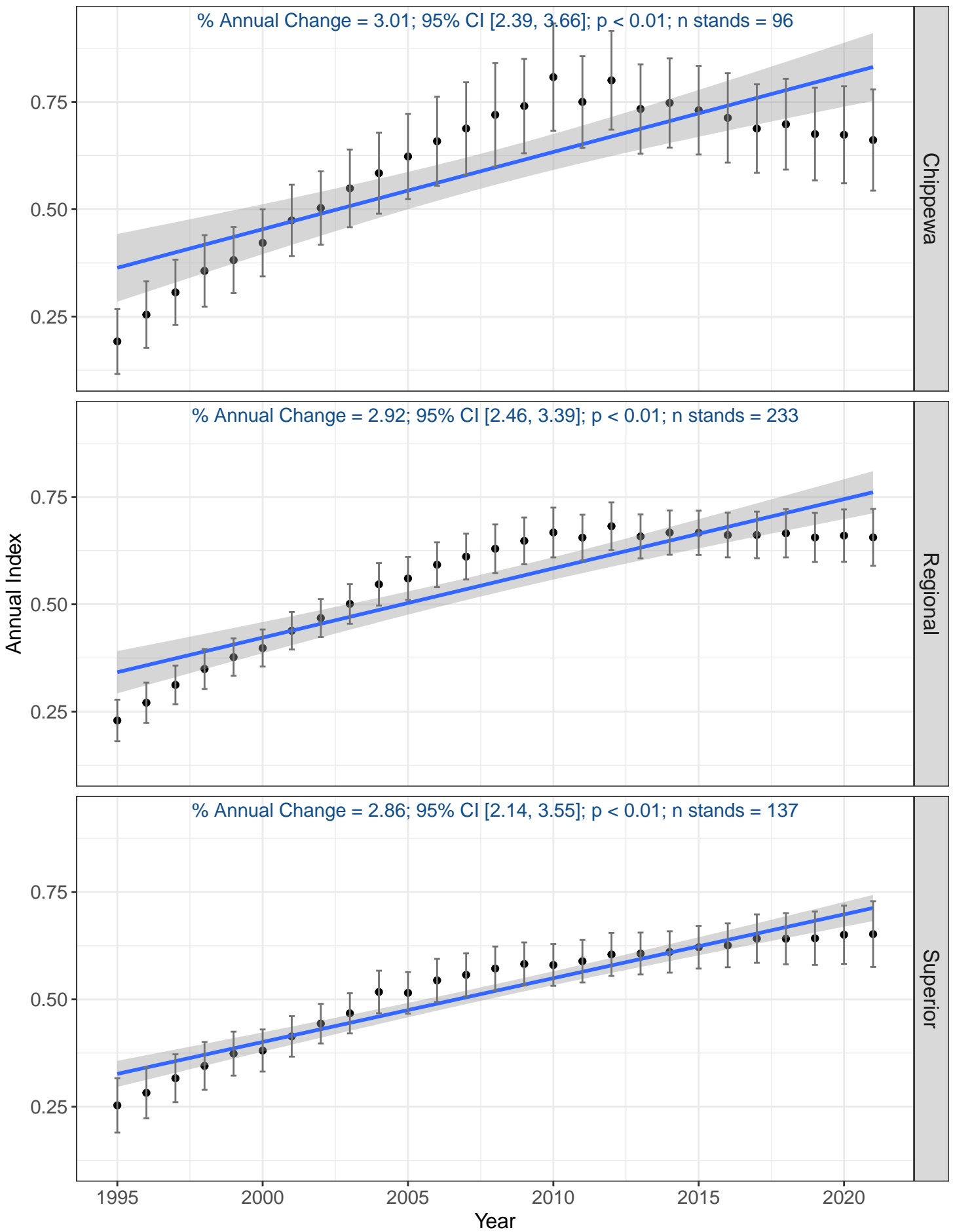
# Pine Warbler



# Purple Finch

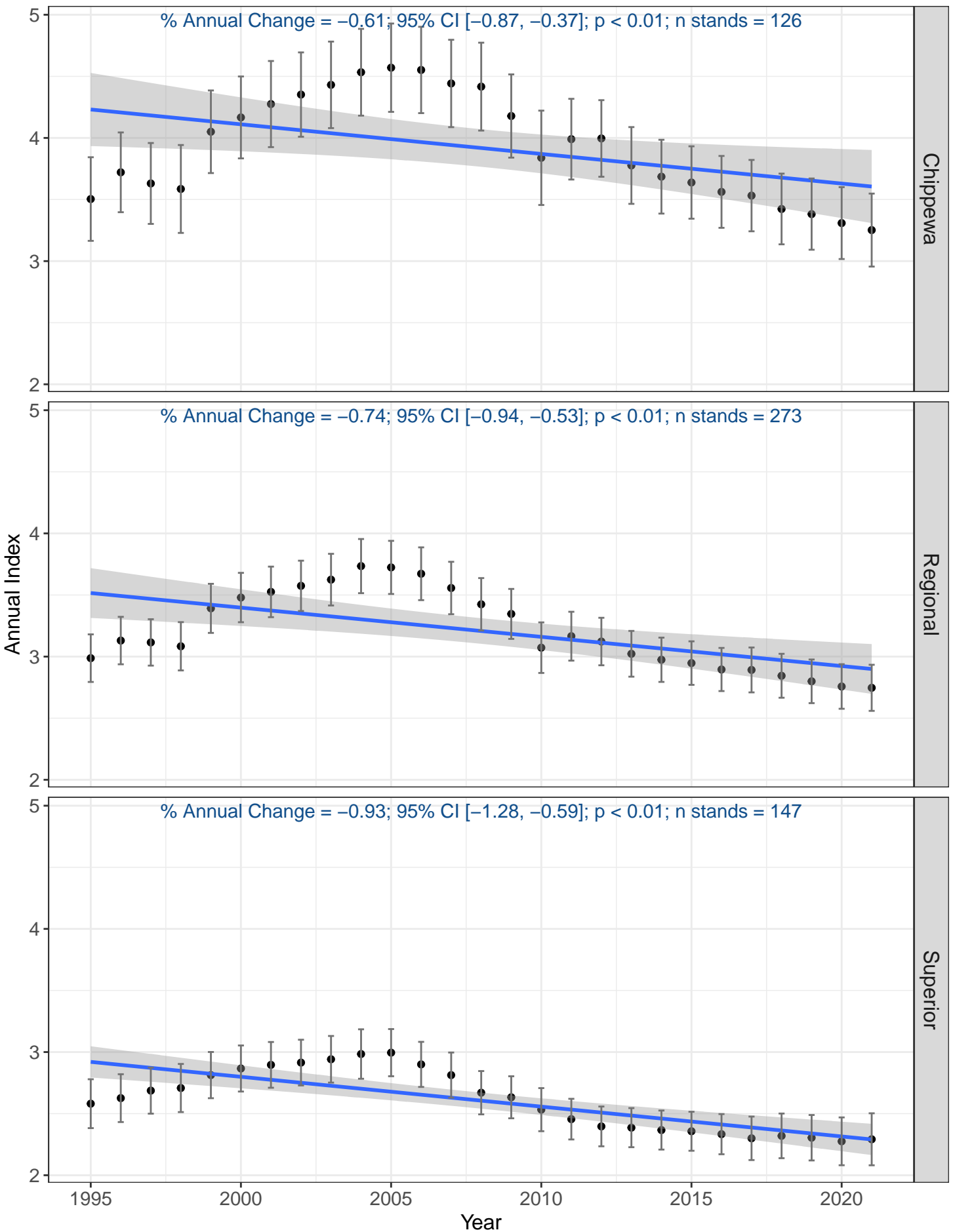


# Red-breasted Nuthatch

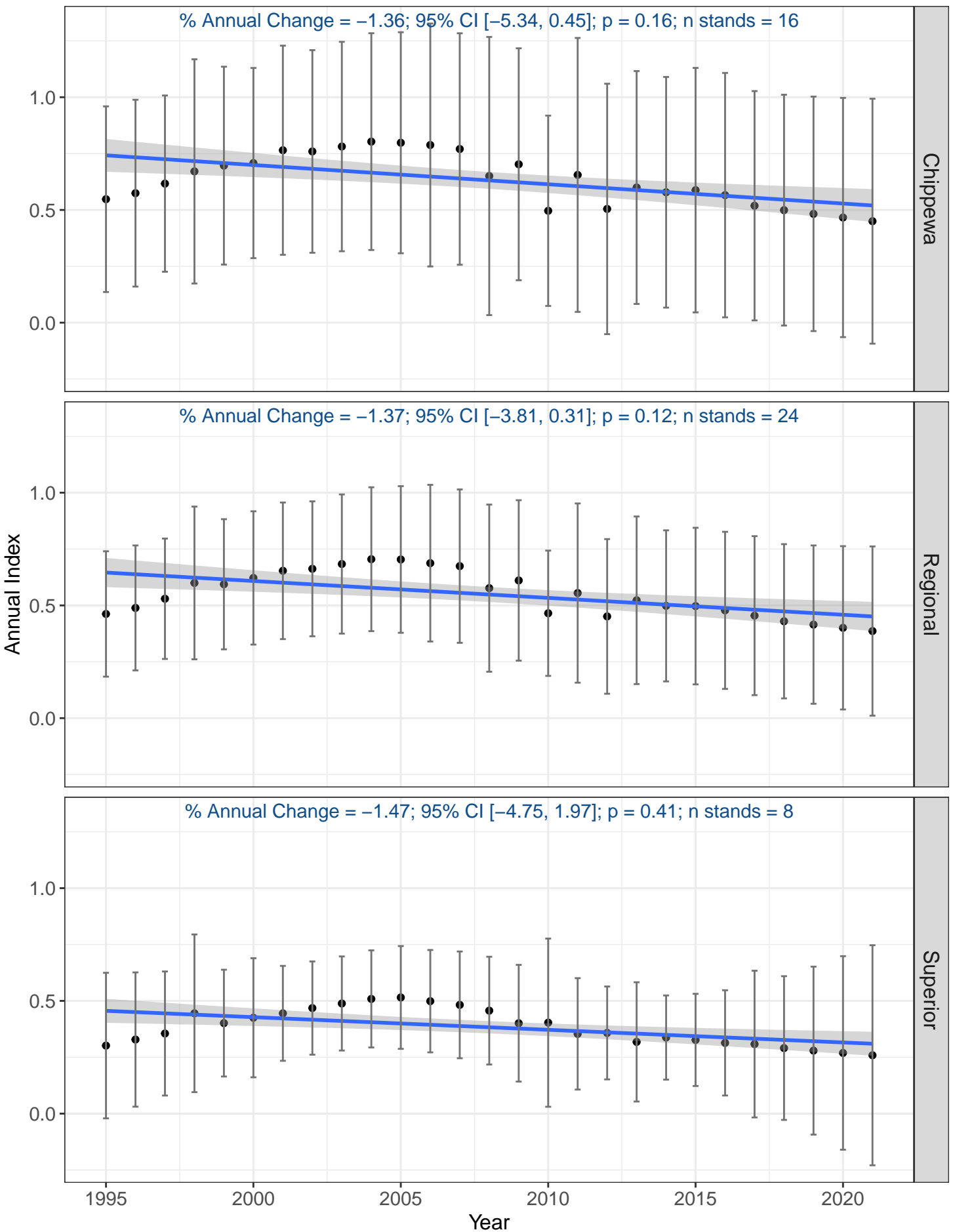




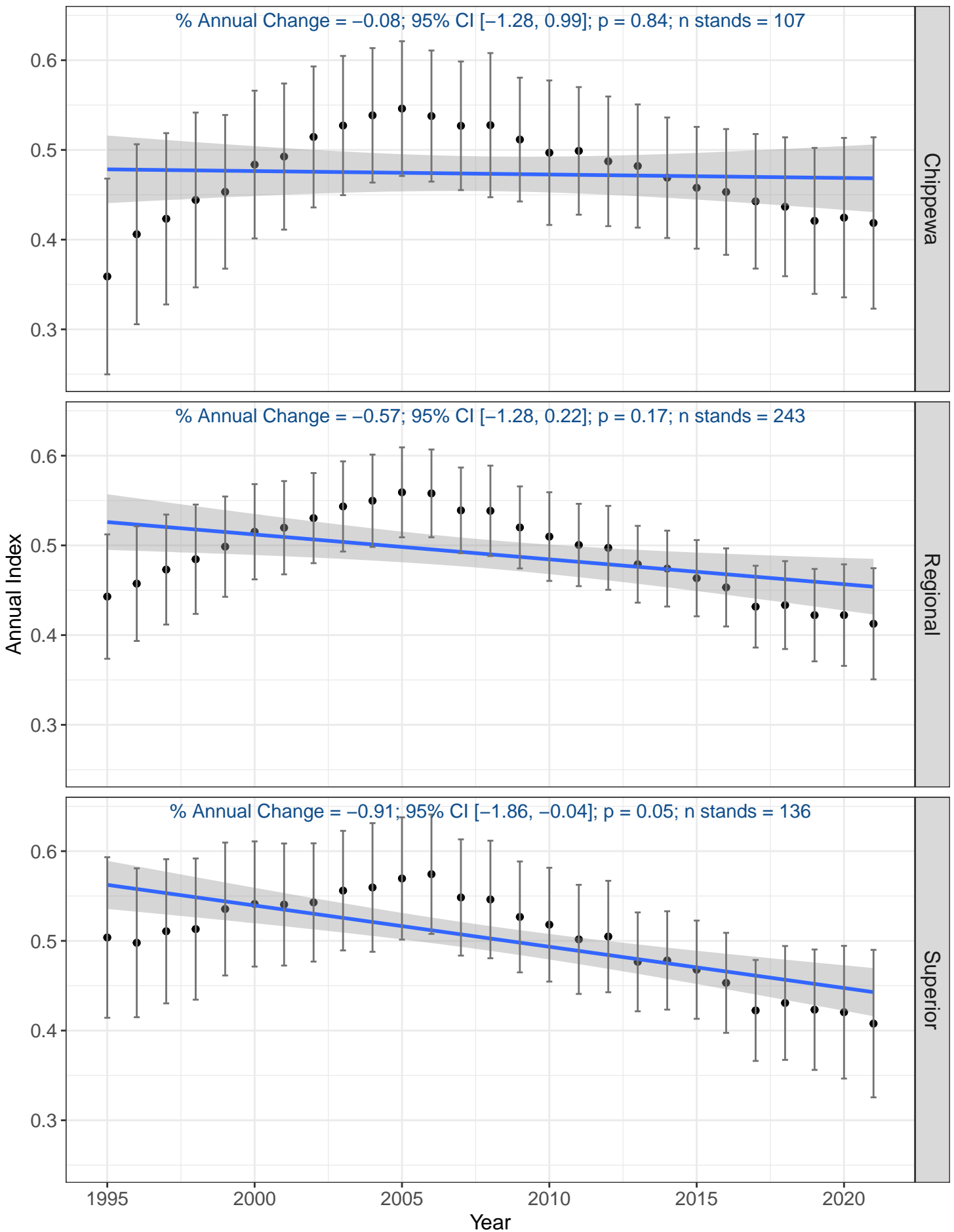
# Red-eyed Vireo



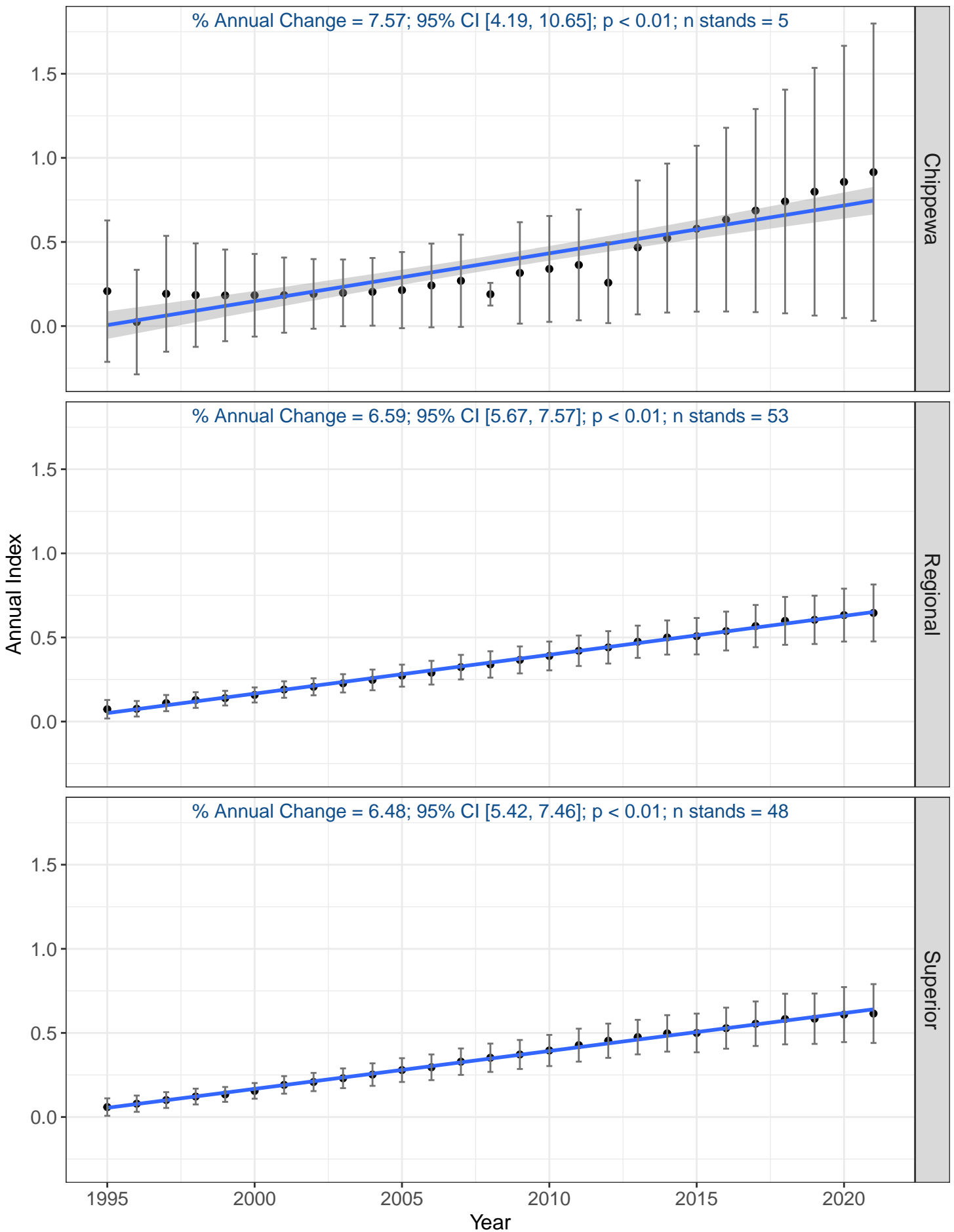
# Red-winged Blackbird



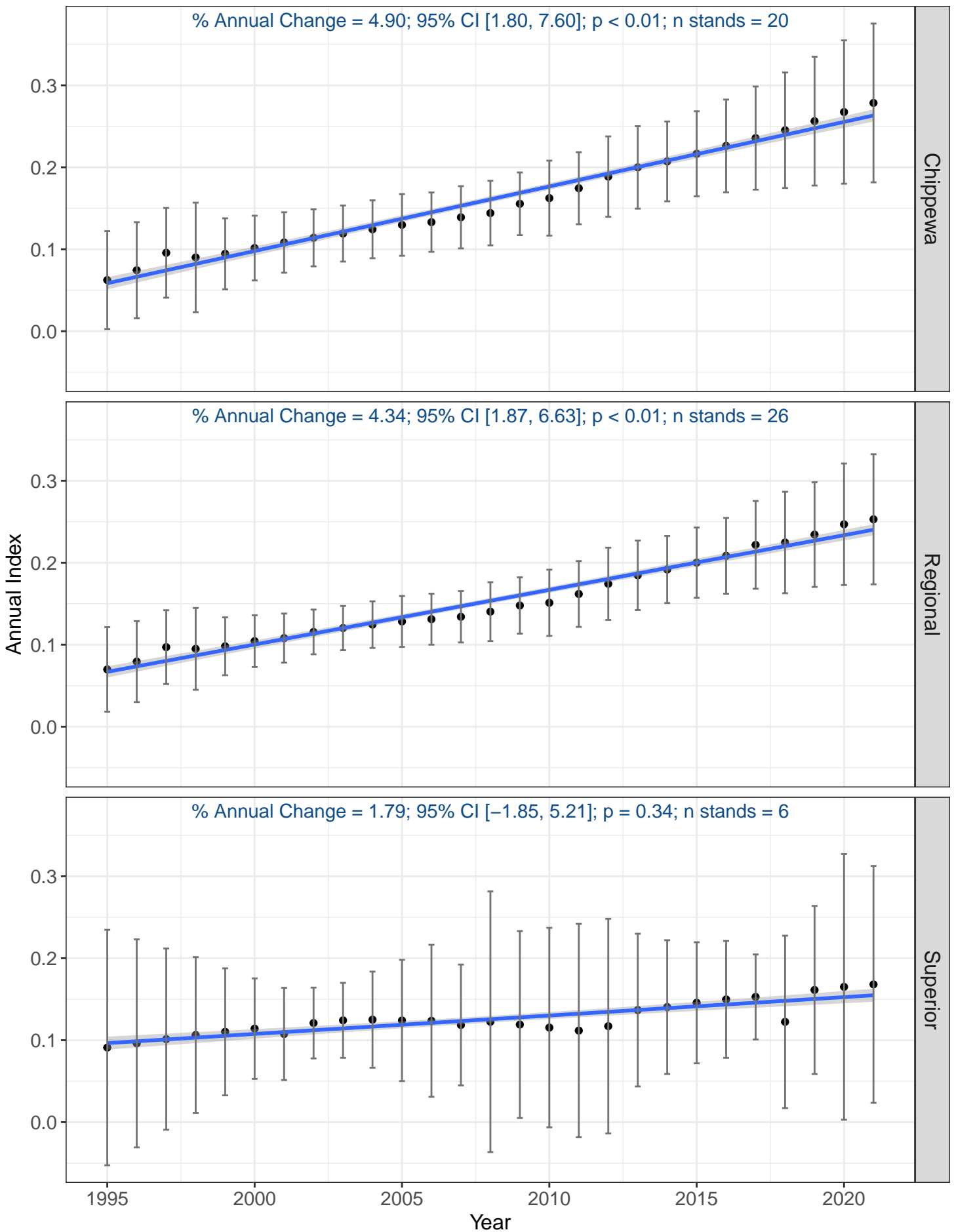
# Rose-breasted Grosbeak



# Ruby-crowned Kinglet

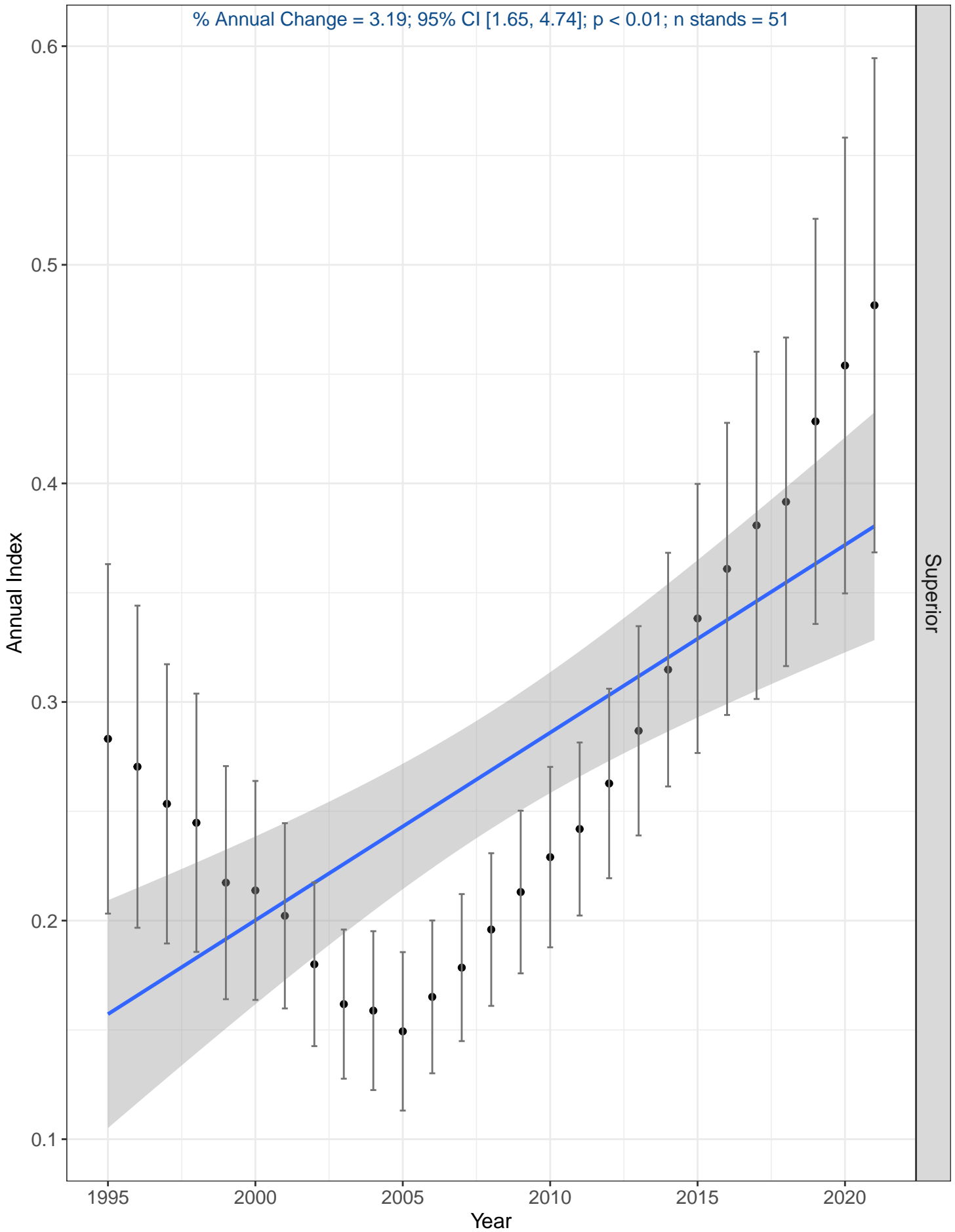


# Ruby-throated Hummingbird

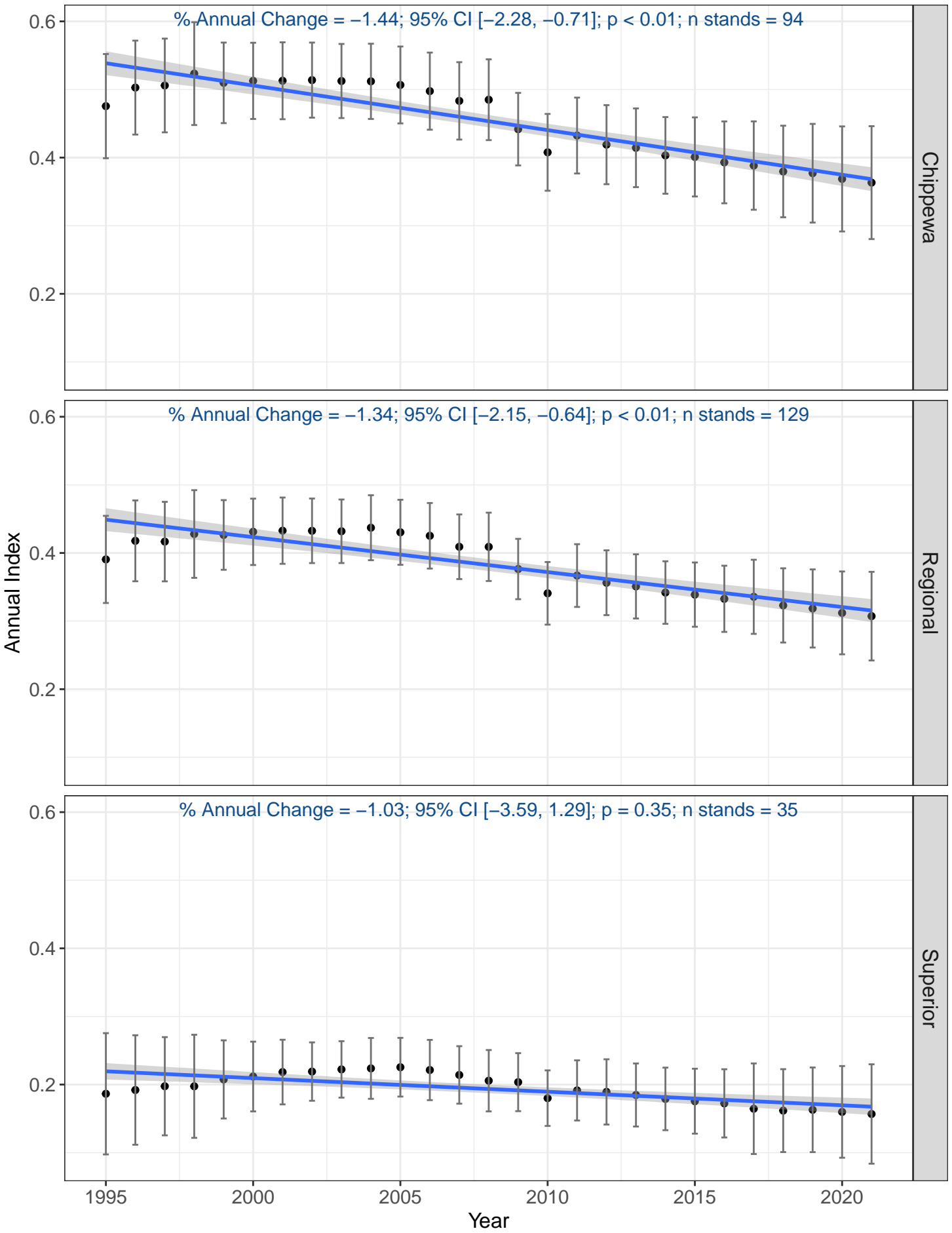


# Ruffed Grouse

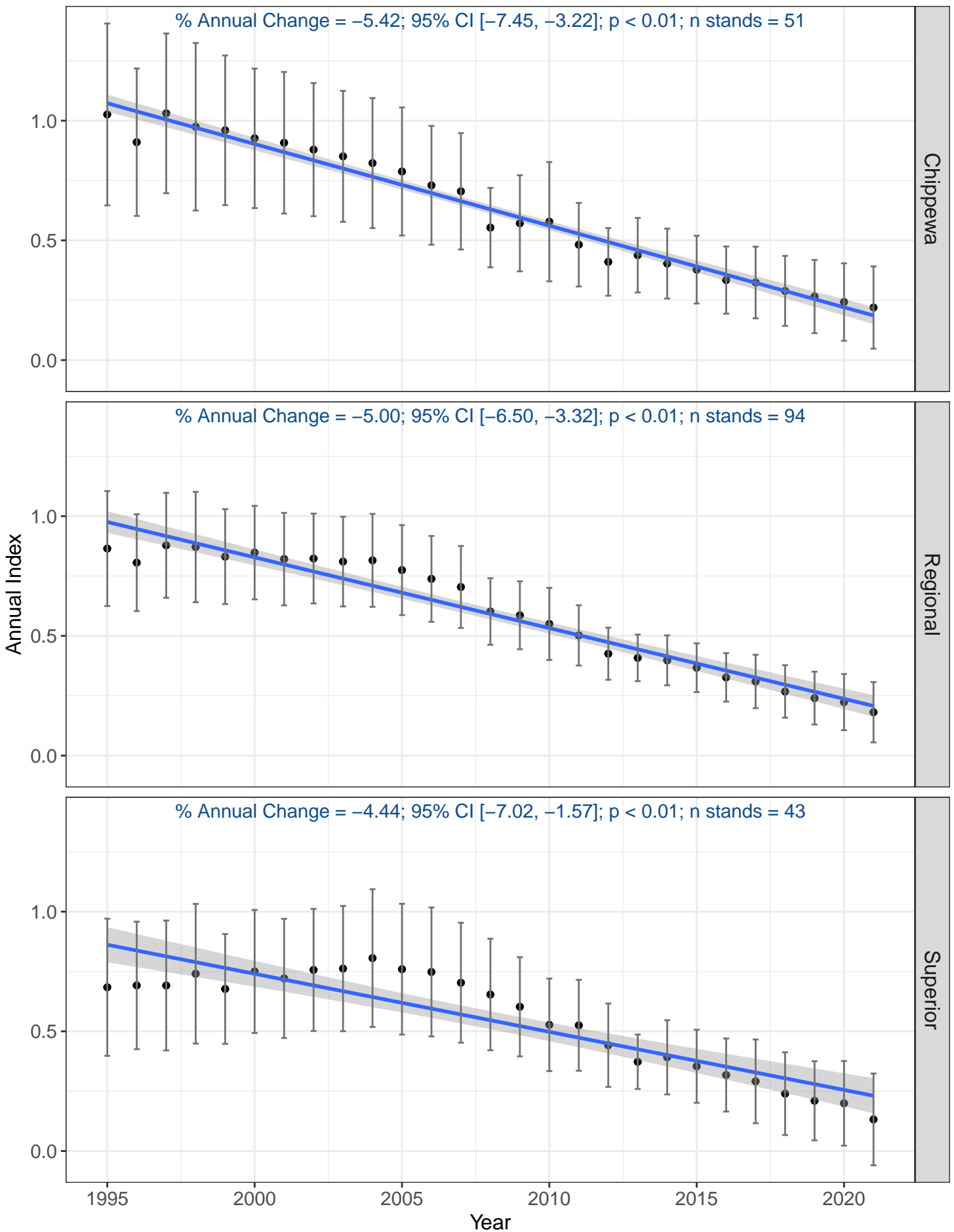
% Annual Change = 3.19; 95% CI [1.65, 4.74];  $p < 0.01$ ; n stands = 51



# Scarlet Tanager



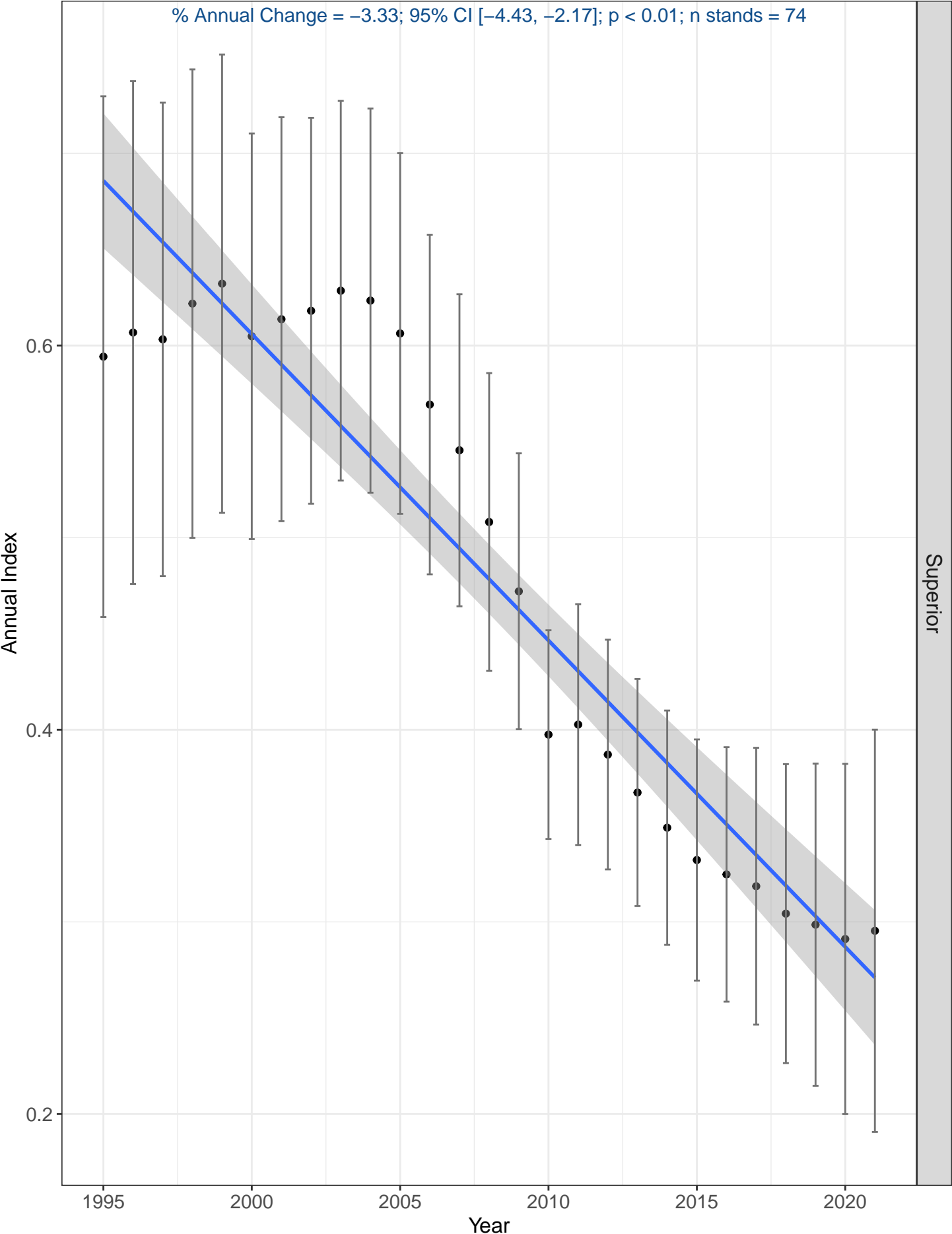
# Song Sparrow



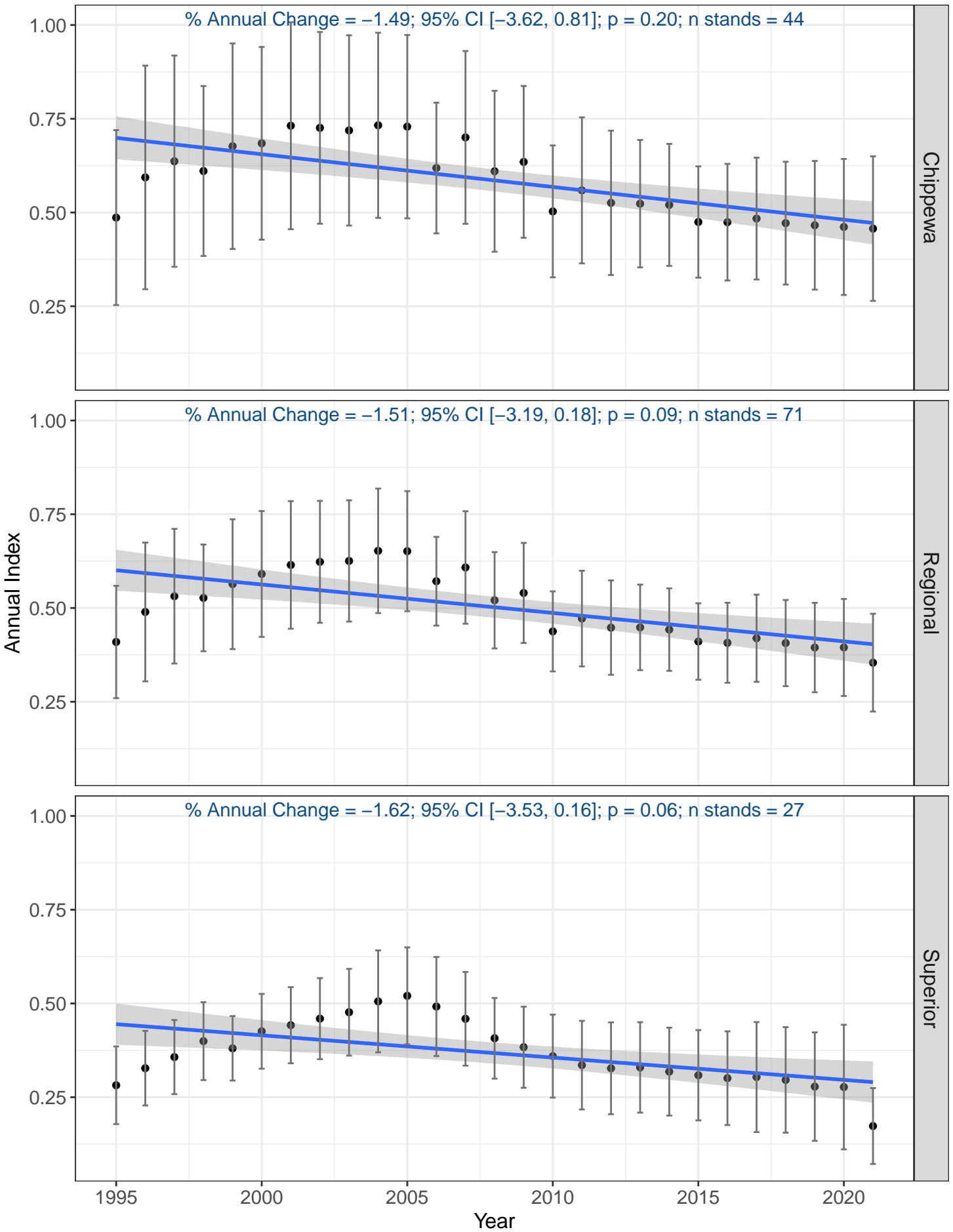


# Swainson's Thrush

% Annual Change = -3.33; 95% CI [-4.43, -2.17]; p < 0.01; n stands = 74

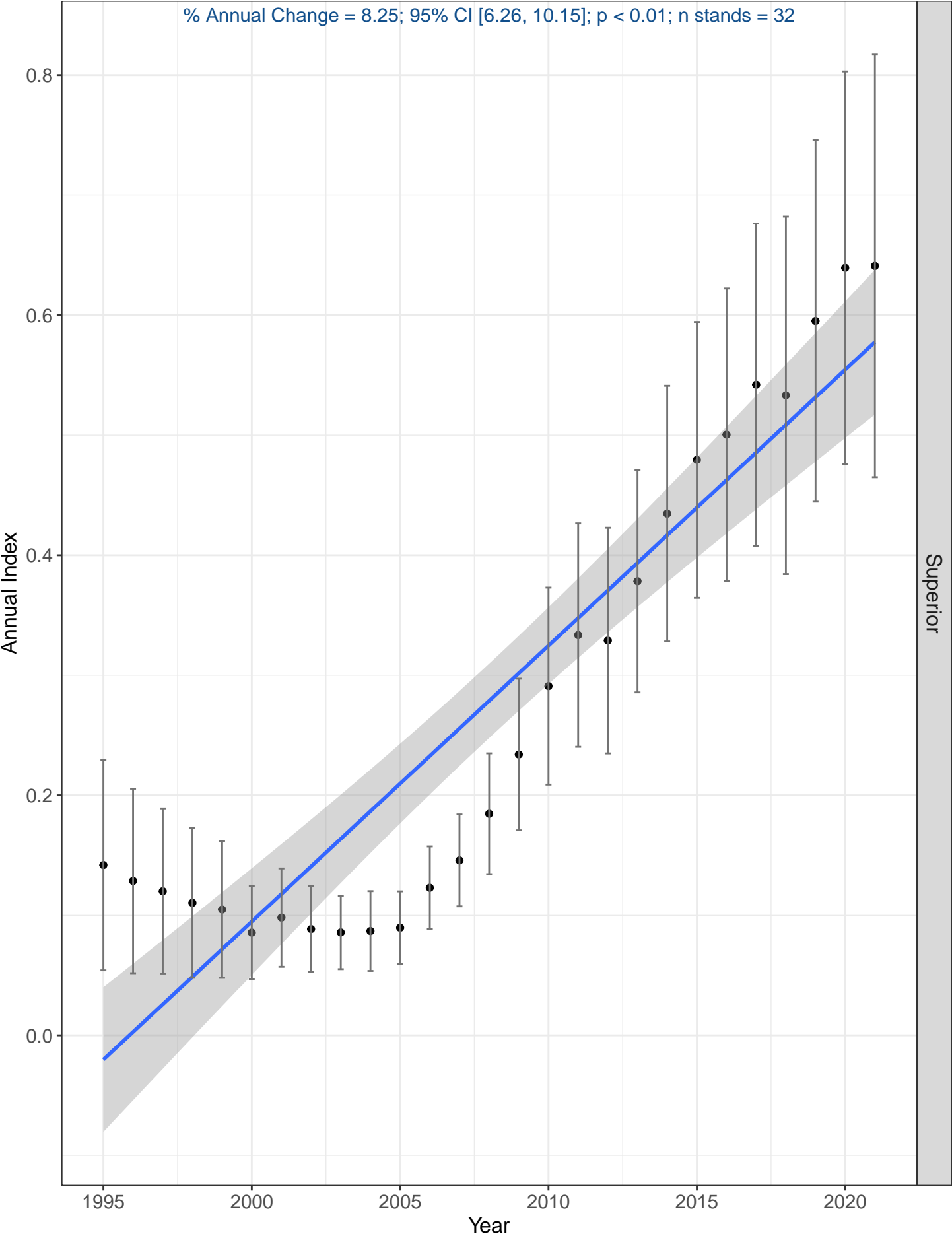


# Swamp Sparrow

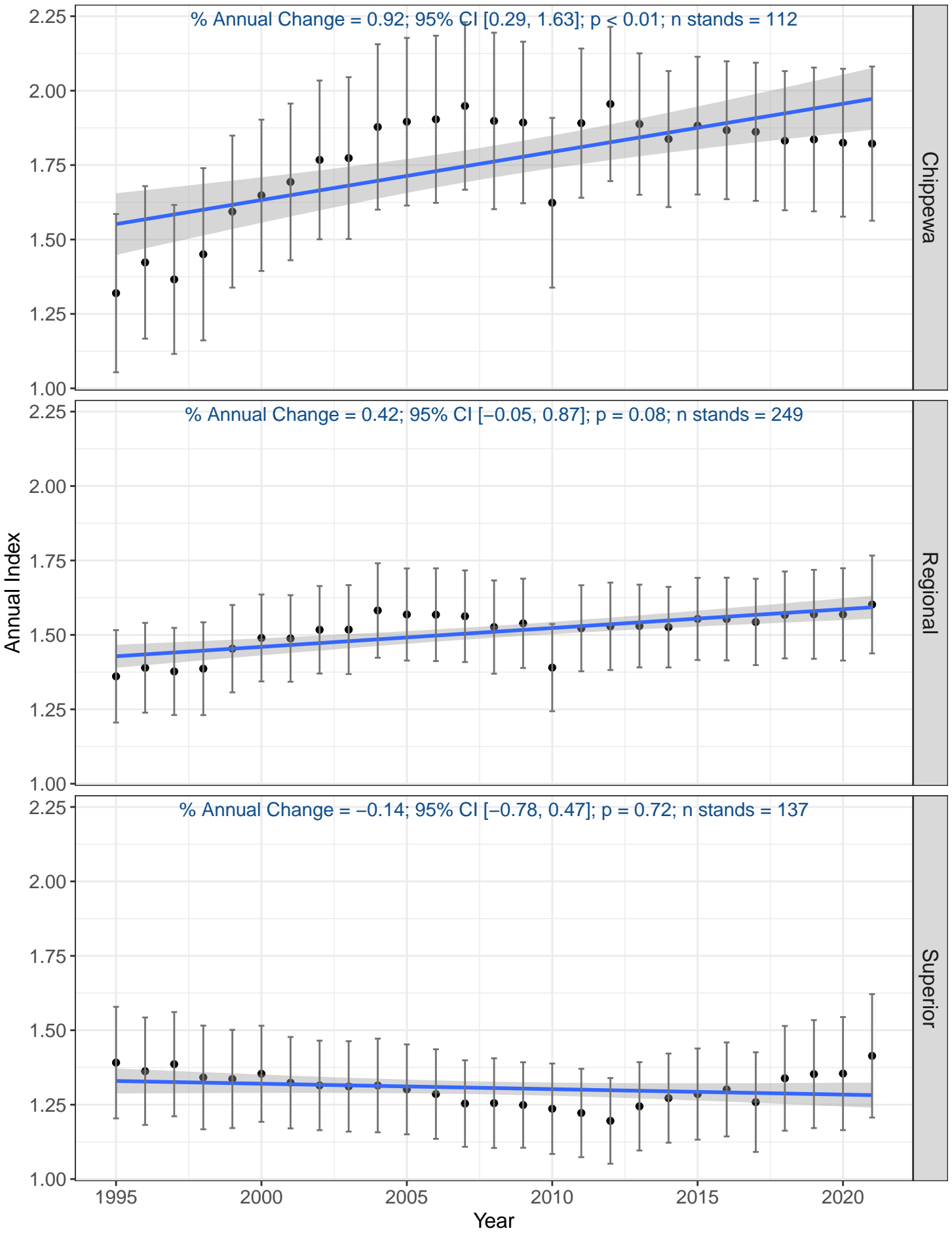


# Tennessee Warbler

% Annual Change = 8.25; 95% CI [6.26, 10.15];  $p < 0.01$ ; n stands = 32

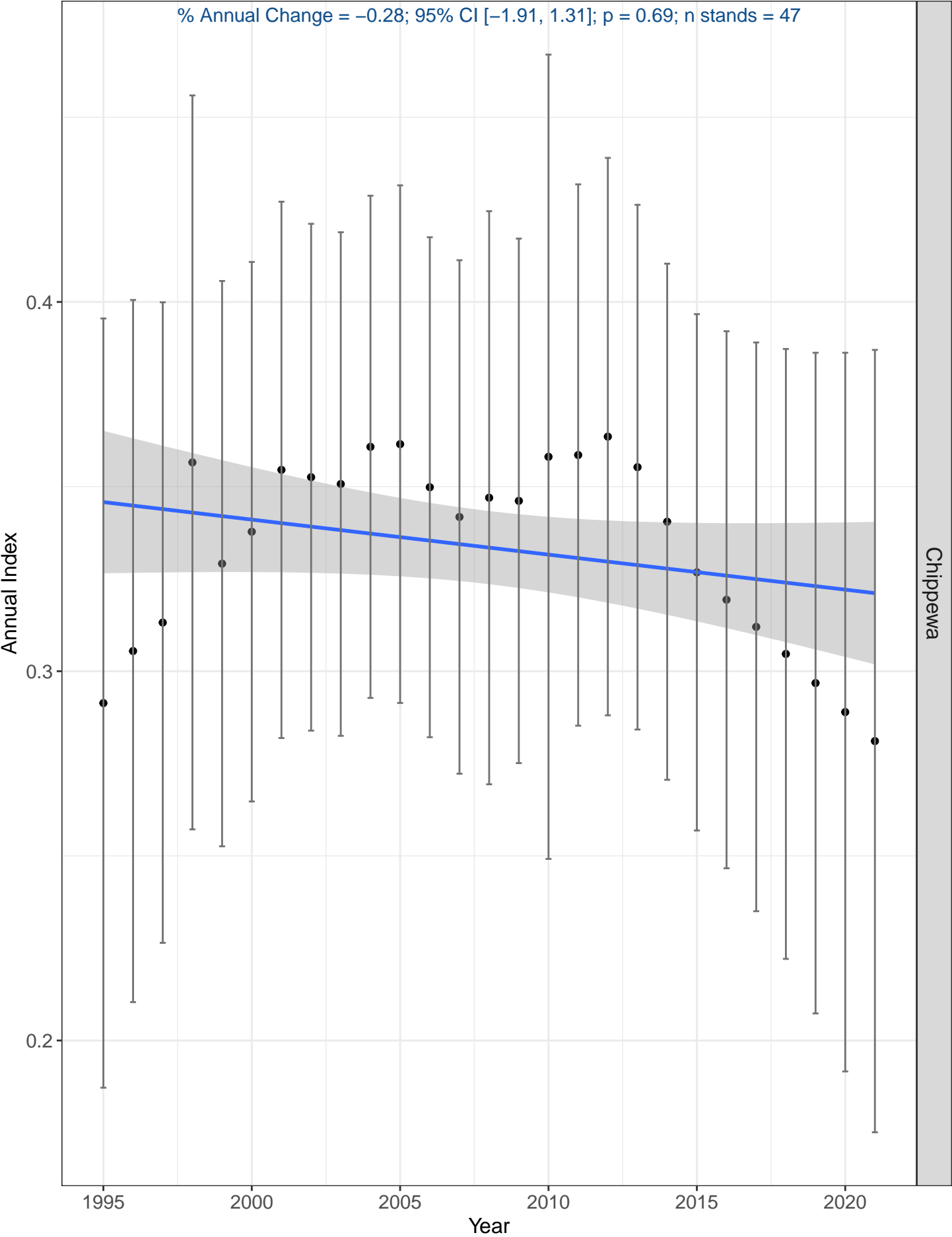


# Veery

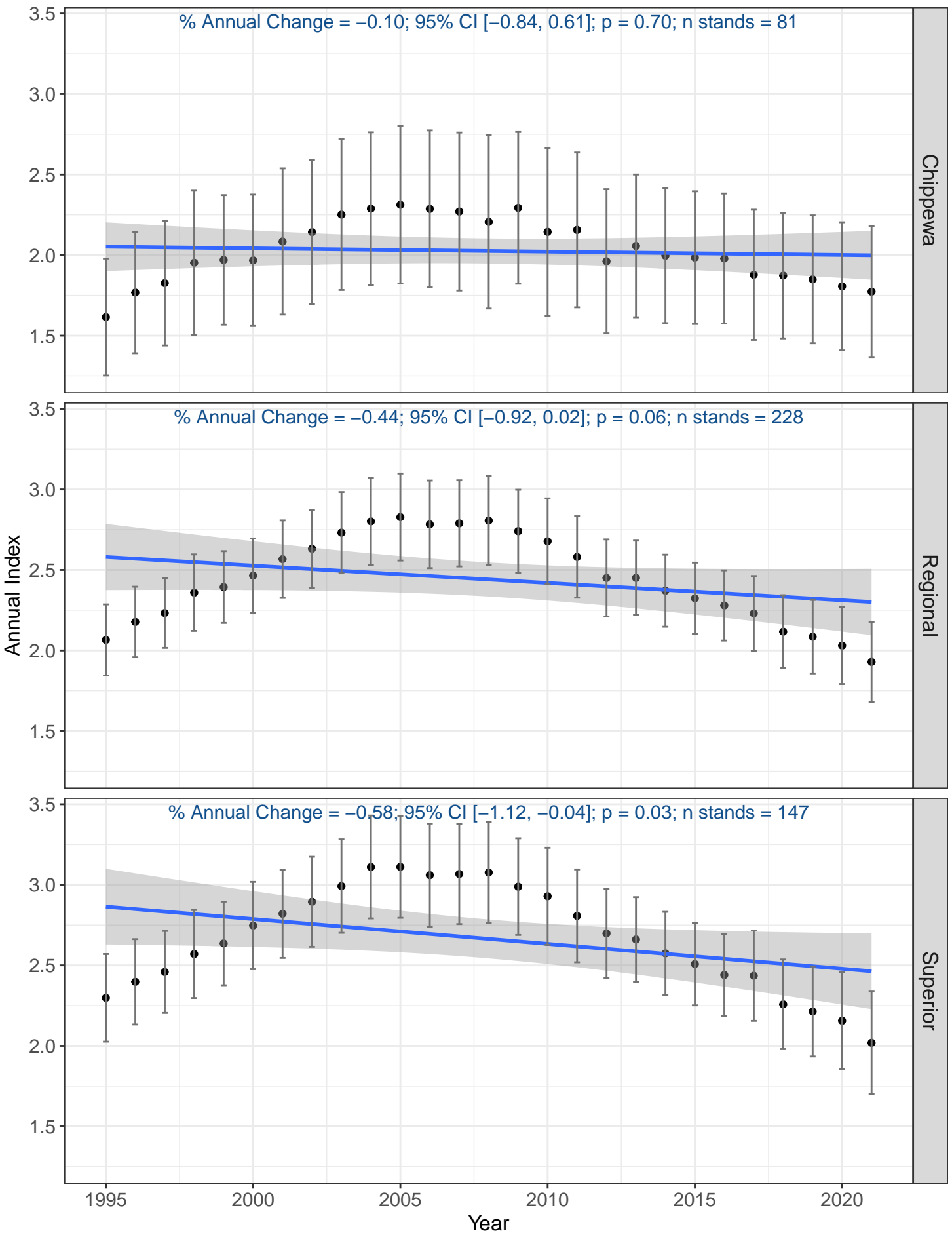


# White-breasted Nuthatch

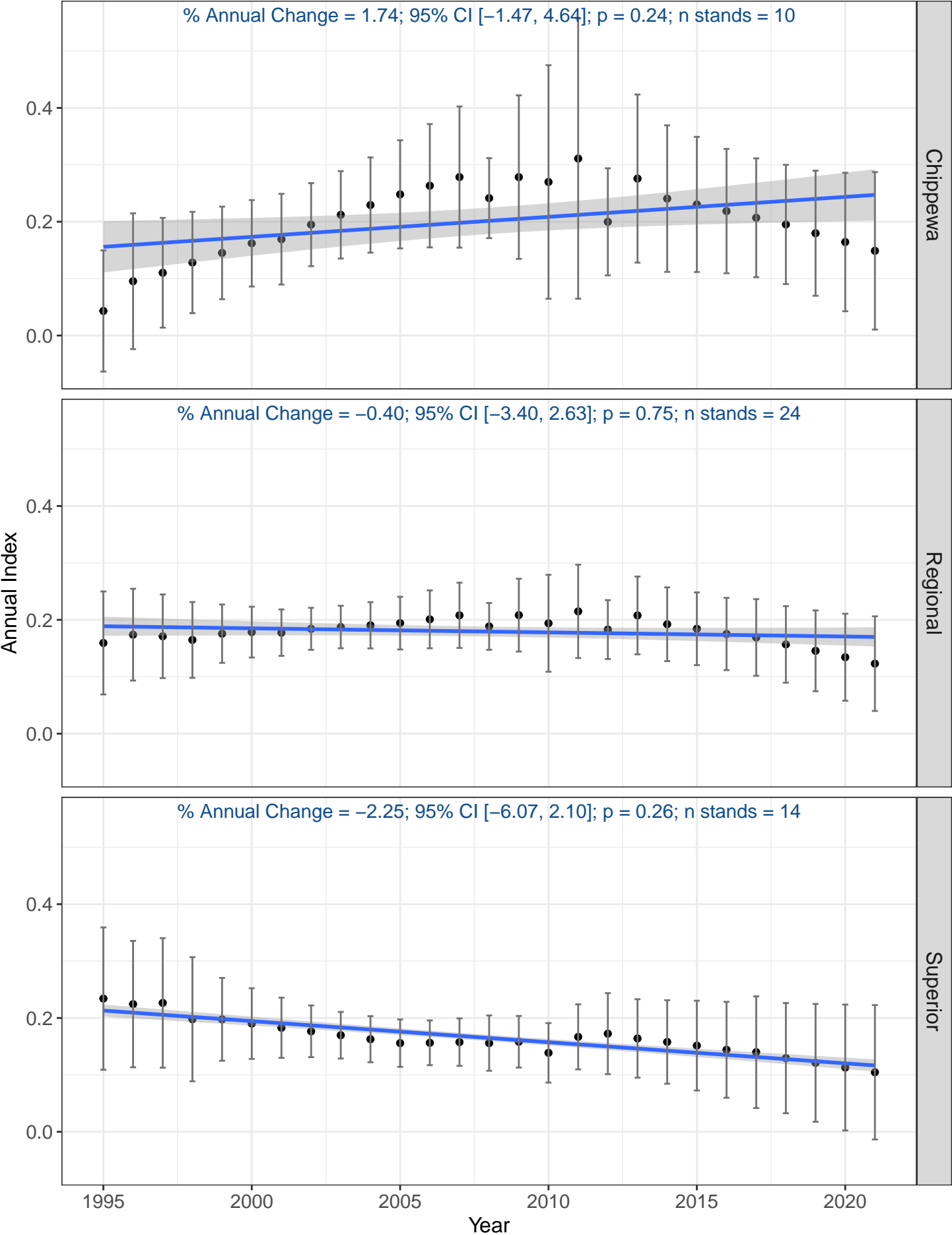
% Annual Change = -0.28; 95% CI [-1.91, 1.31]; p = 0.69; n stands = 47



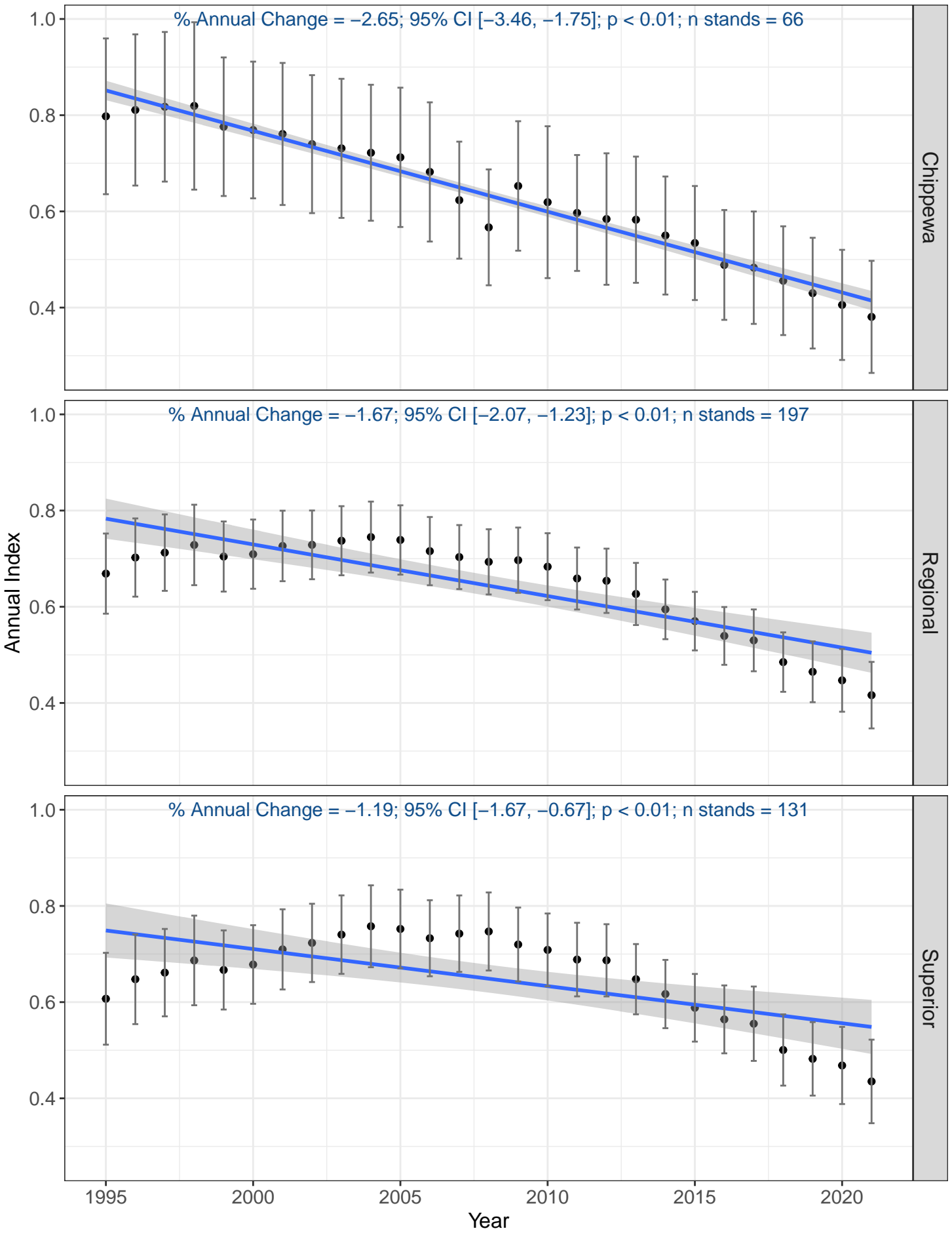
# White-throated Sparrow



# Wilson's Snipe

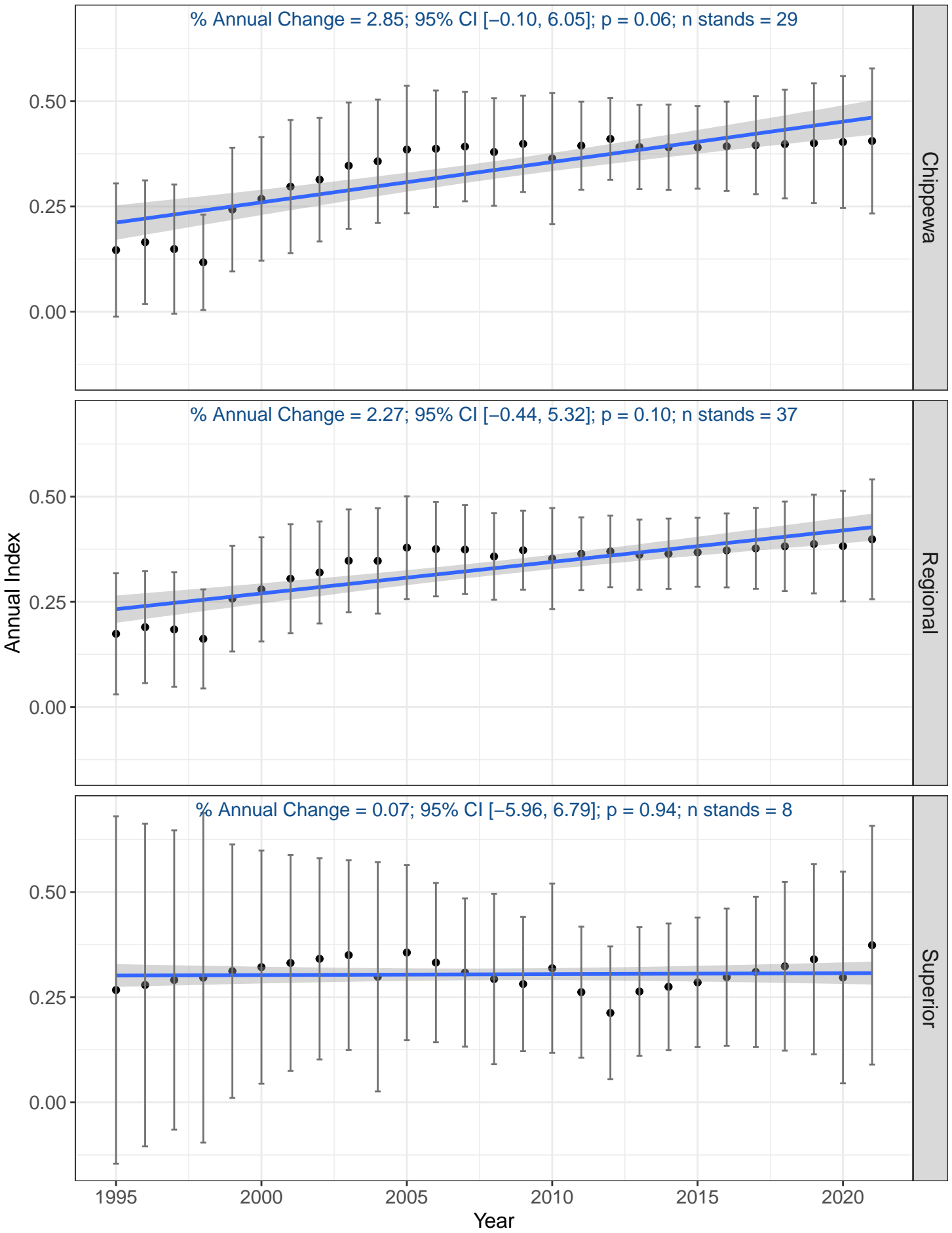


# Winter Wren

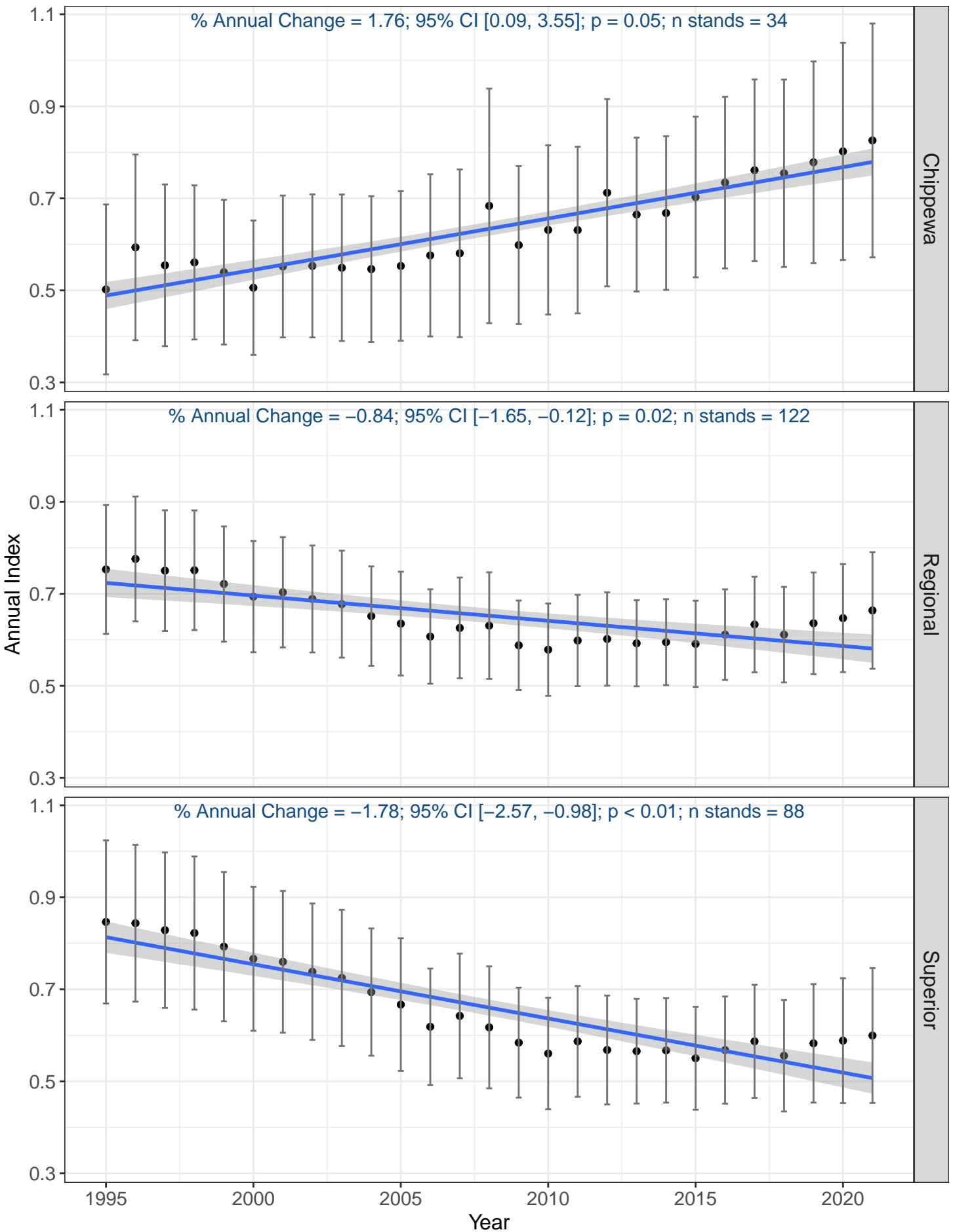




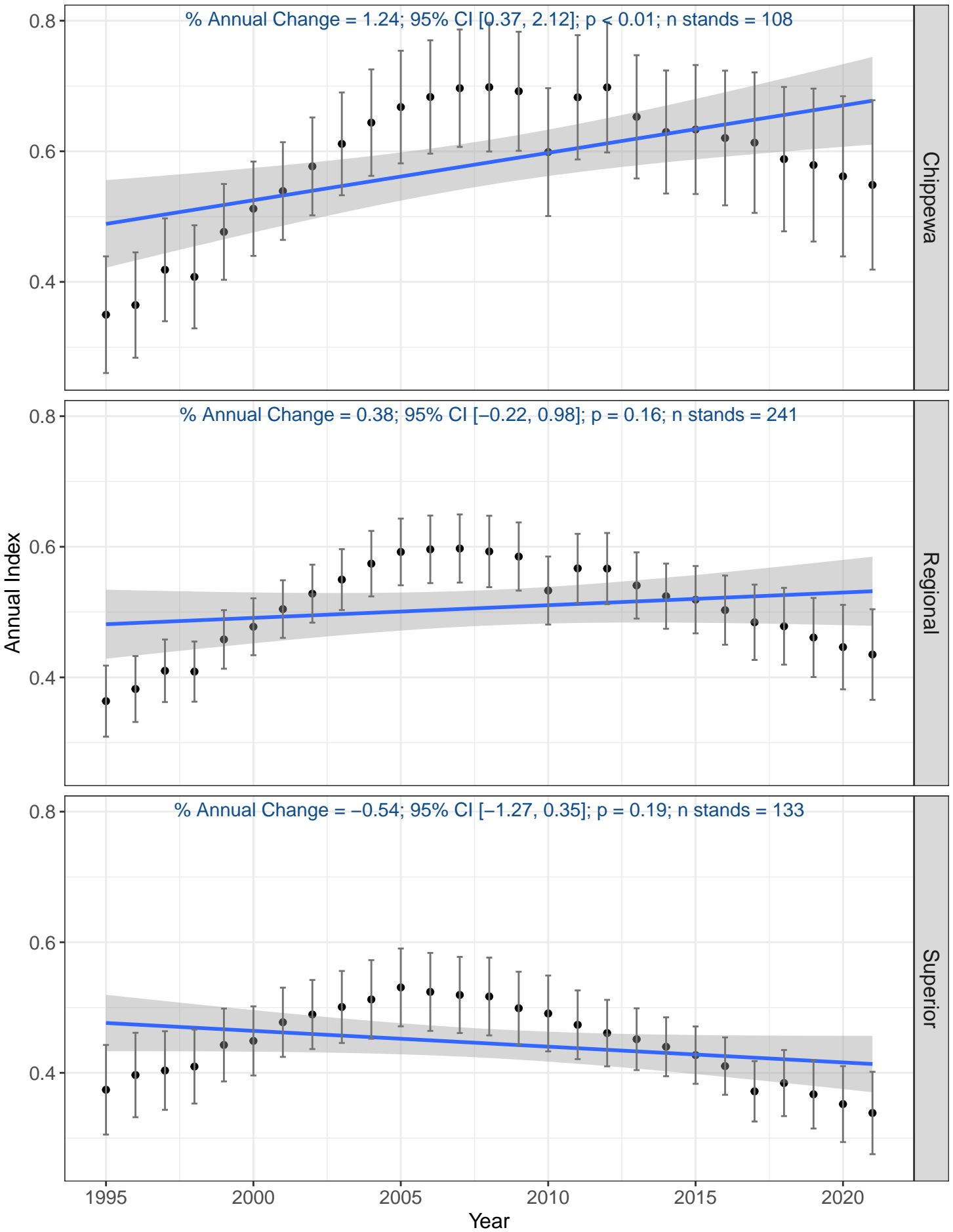
# Wood Thrush



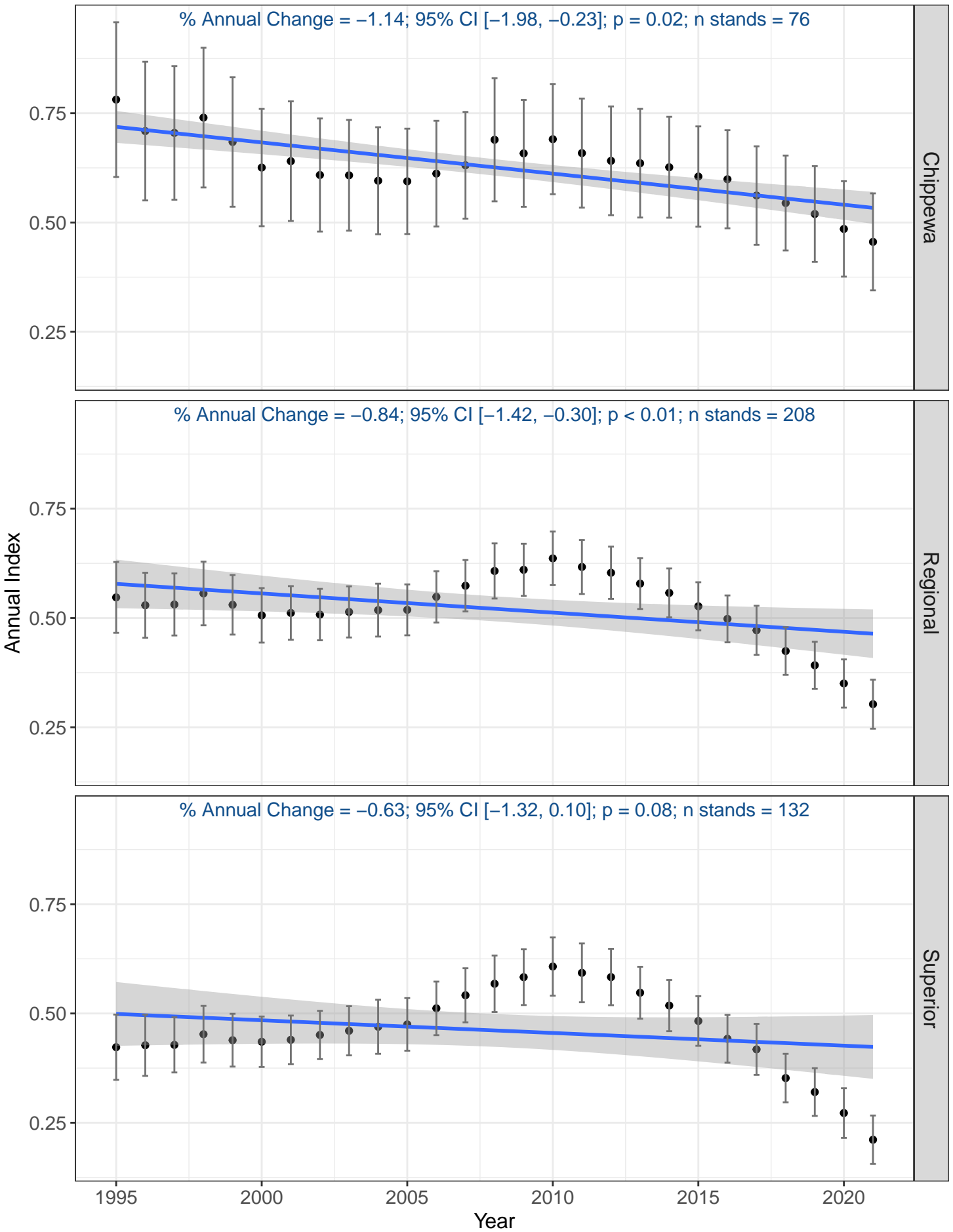
# Yellow-bellied Flycatcher



# Yellow-bellied Sapsucker

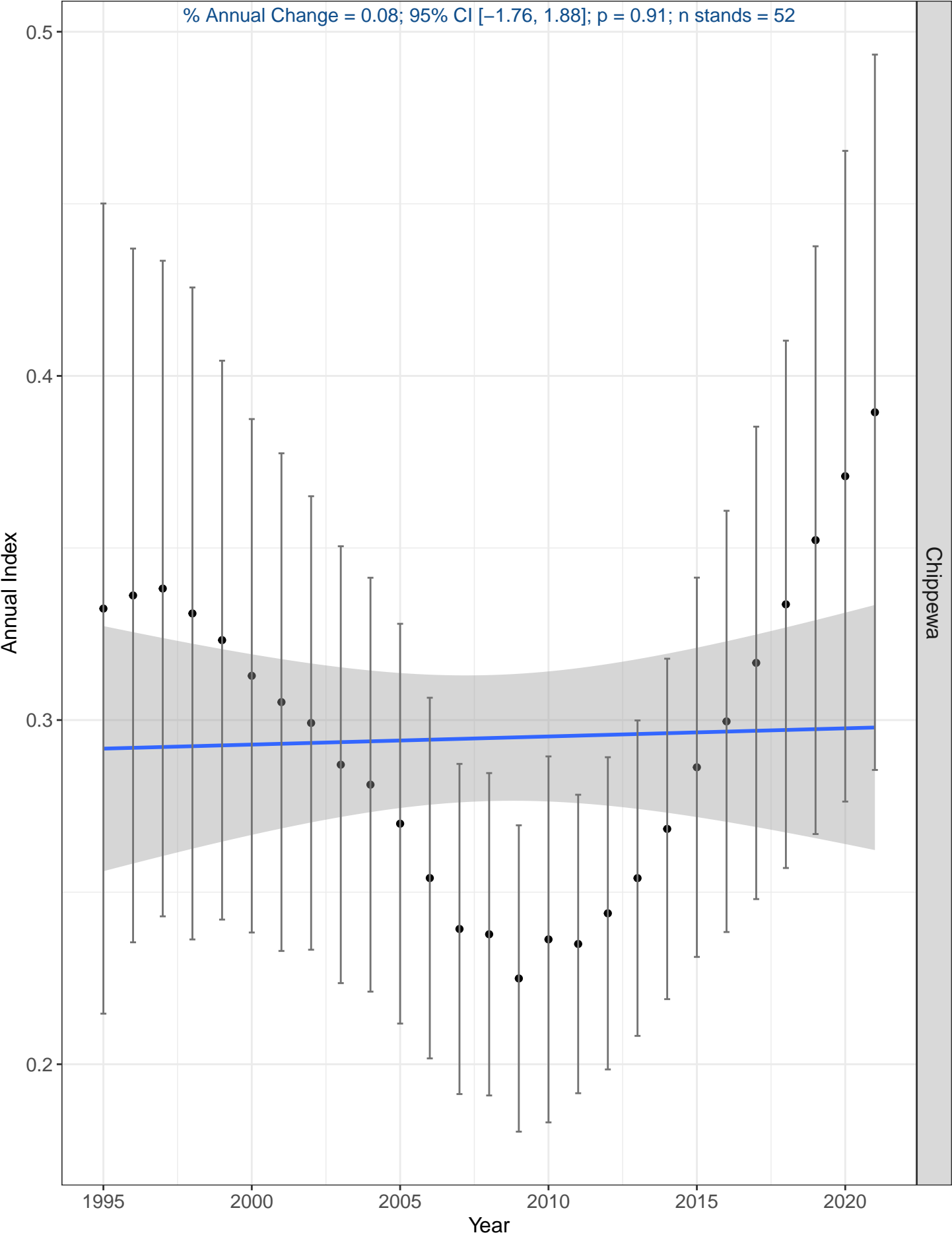


# Yellow-rumped Warbler (Myrtle)



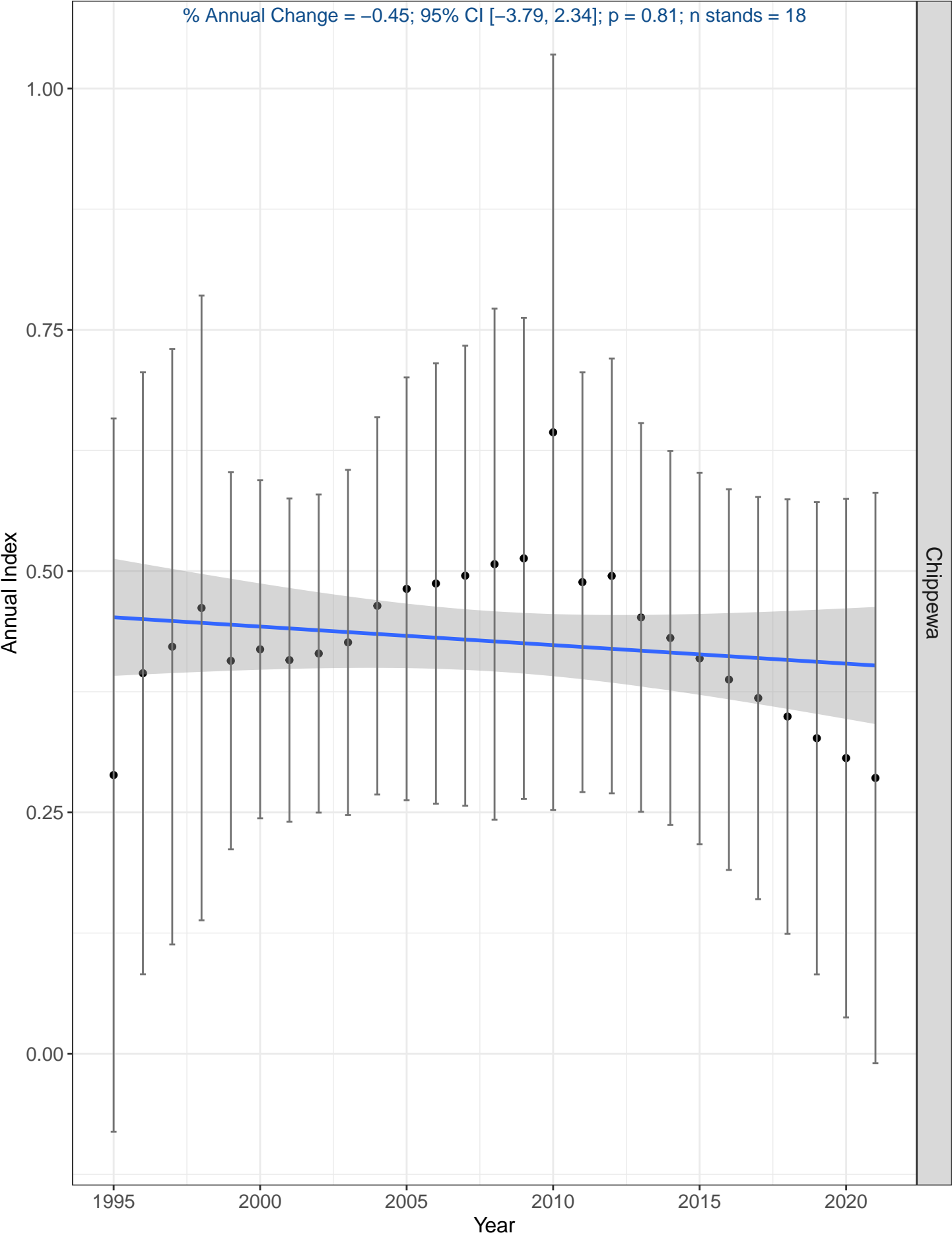
# Yellow-throated Vireo

% Annual Change = 0.08; 95% CI [-1.76, 1.88]; p = 0.91; n stands = 52



# Yellow Warbler

% Annual Change = -0.45; 95% CI [-3.79, 2.34]; p = 0.81; n stands = 18



Chippewa