

An Assessment of Population Status, Limiting Factors, and Conservation Actions for an Oregon Vesper Sparrow Metapopulation in the Willamette Valley, Oregon, 2016-2023



FINAL REPORT
January 2024

Study Sites

Noble Mt. Tree Farm

Berry Creek Tree Farm

Kings Valley Tree Farm

Soap Creek Ranch

Lumos Prairie

Pearcy-Schoner

Crestmont Ranch

Bald Hill Farm

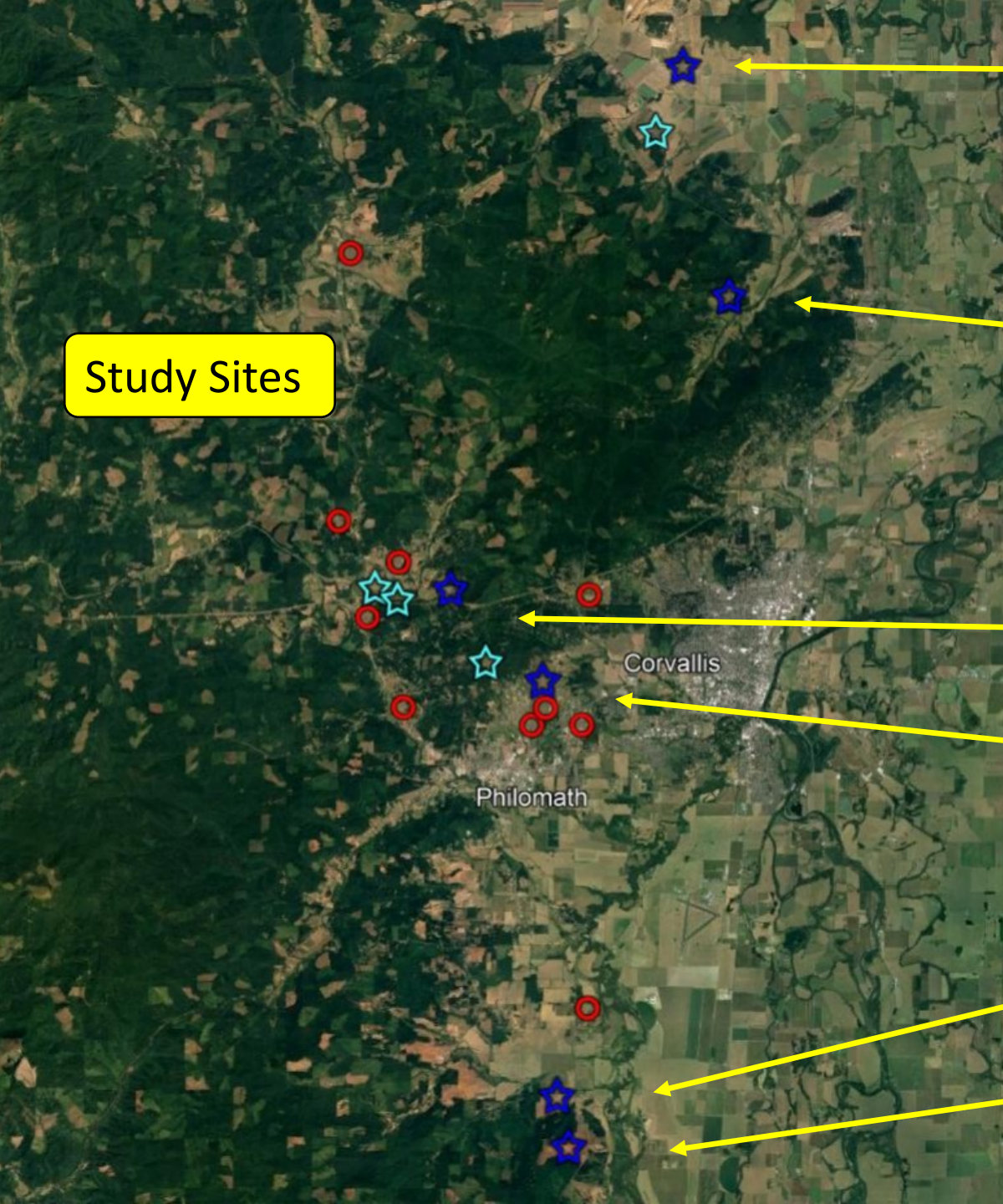
Muddy Creek Tree Farm

Star Creek Tree Farm

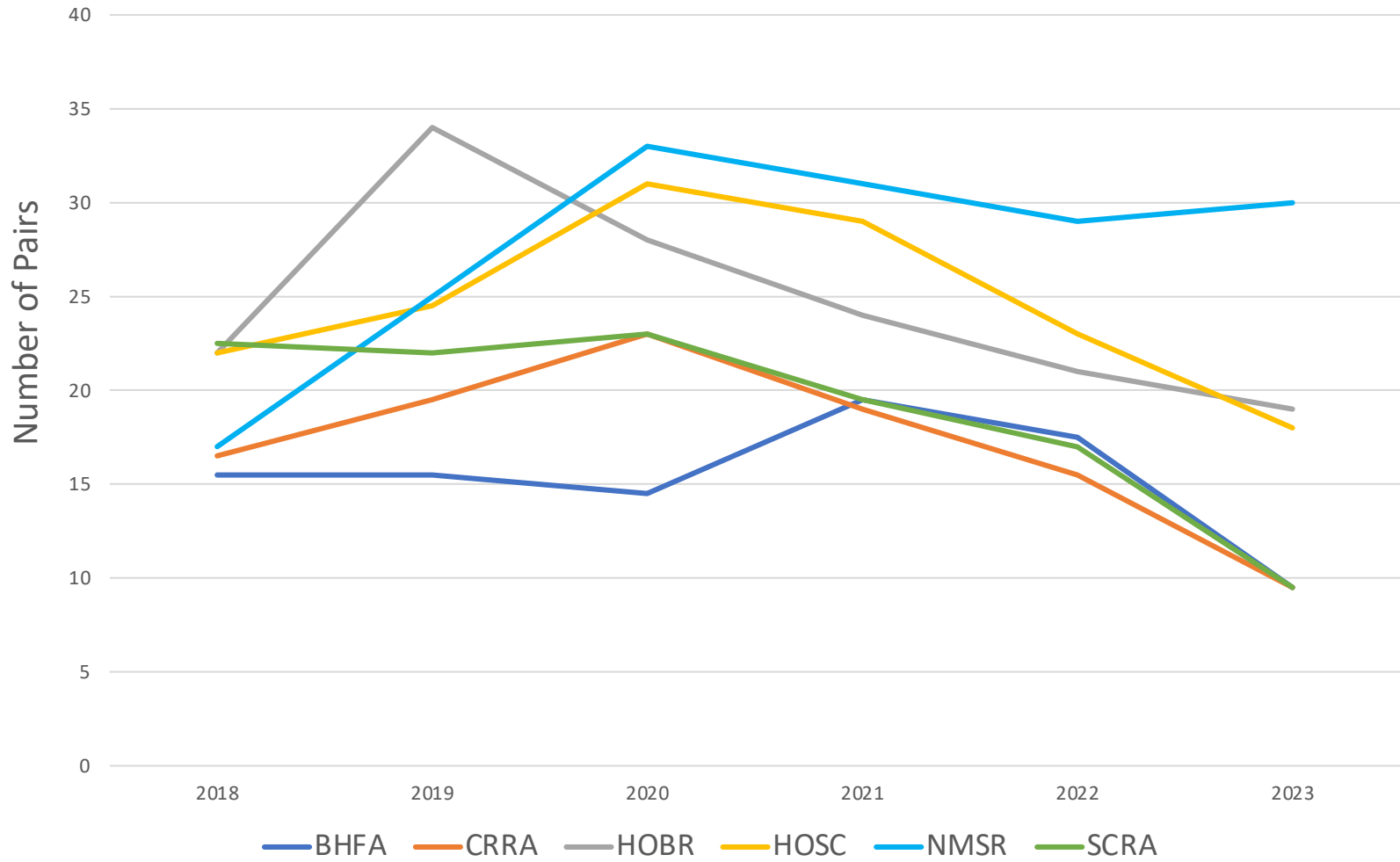
Bellfountain Tree Farm

Corvallis

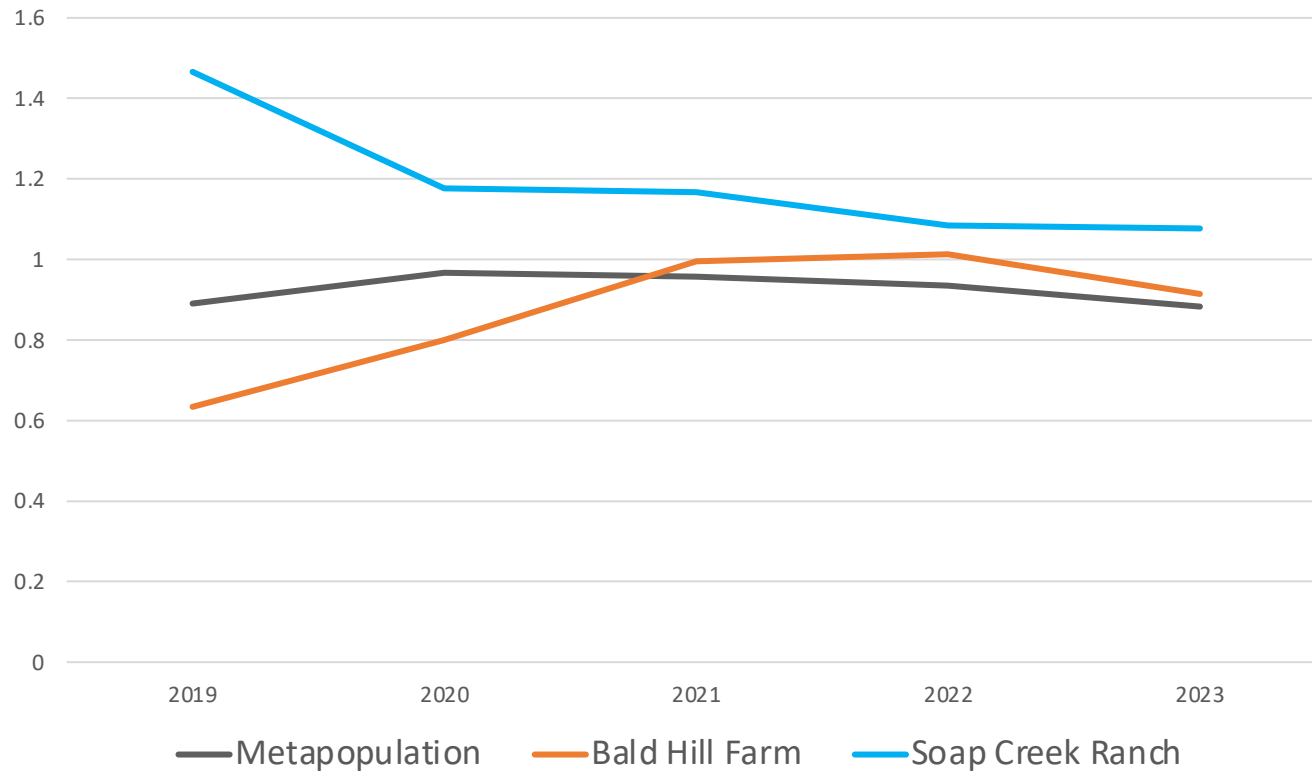
Philomath



Population Trends



Lambda



adult female survival

first-year survival

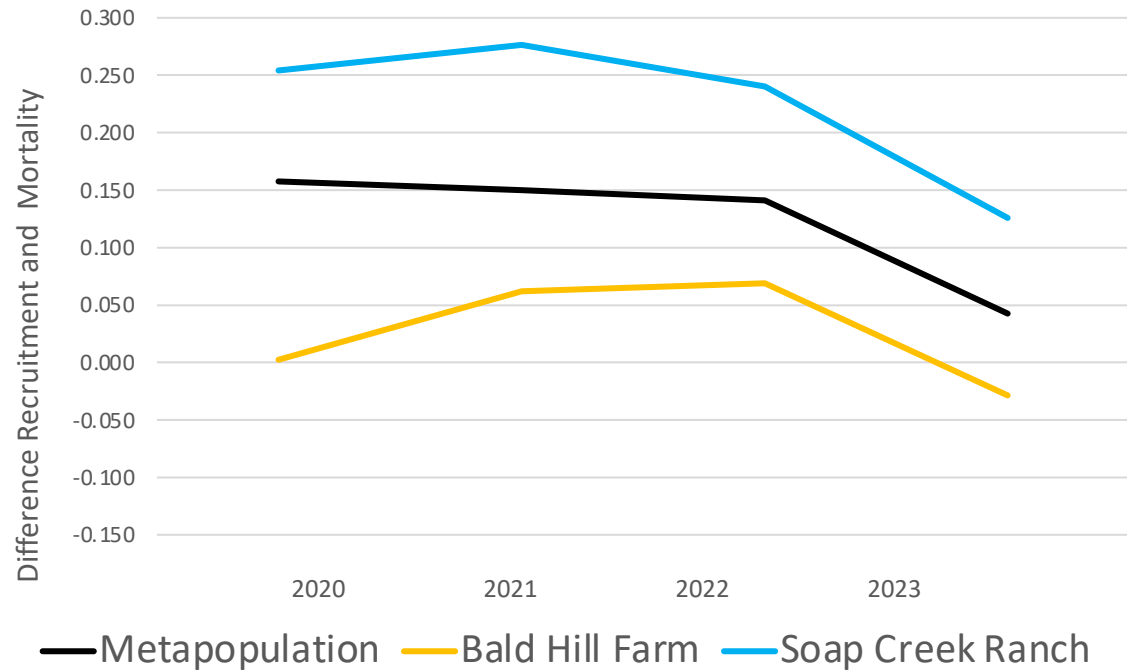
nest success

number nesting attempts/female

female young/brood

Pulliam (1998); Anders and Marshall (2005); Lloyd et al. (2005)

Source versus Sink



Juvenile recruitment > adult mortality = source

Juvenile recruitment < adult mortality = sink

Juvenile recruitment = female offspring/nest X nest
success/nest attempts X first-year survival

Donovan et al. (1995)