

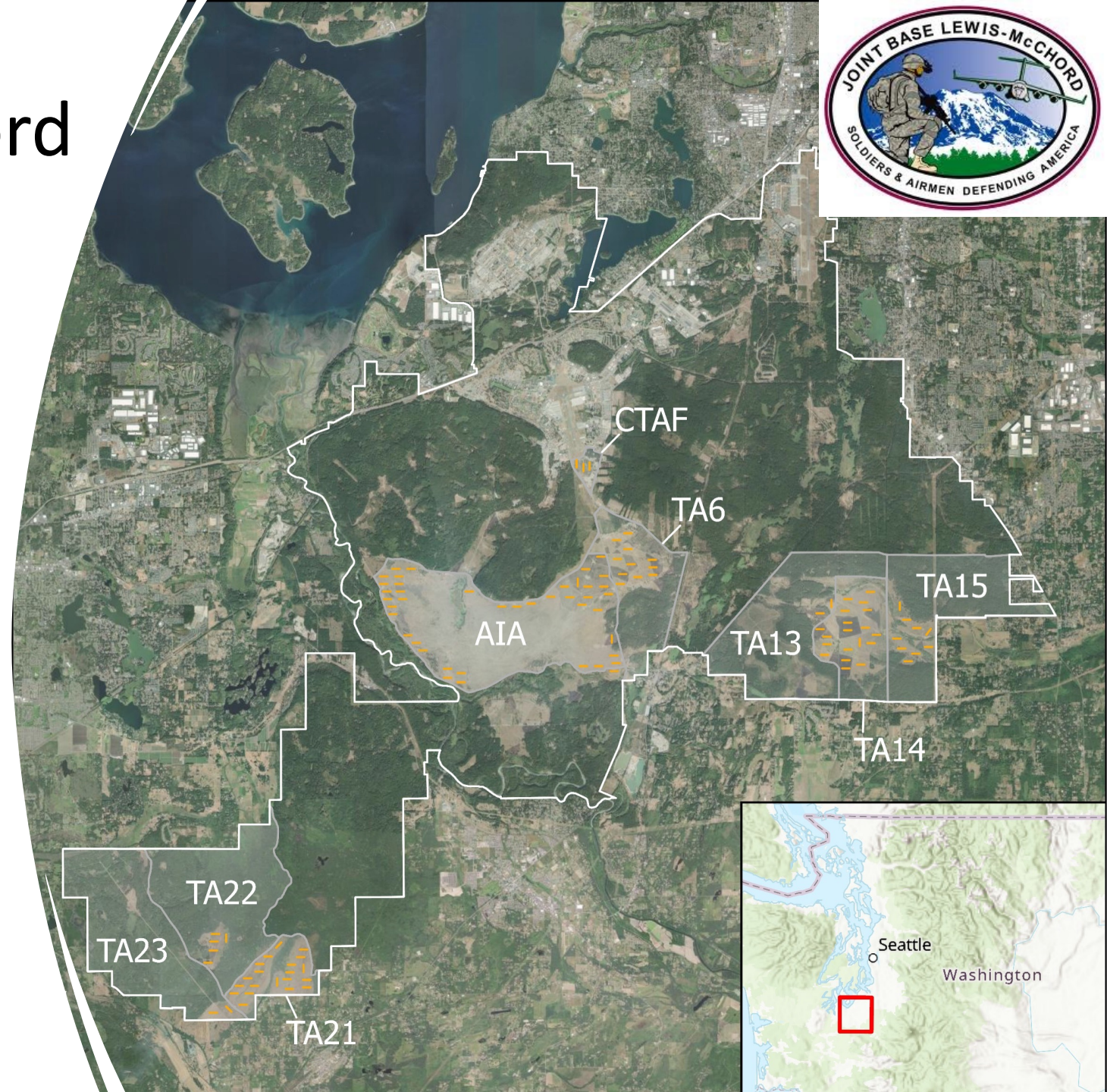
South Puget Sound: OVSP Abundance and Distribution



2024 Oregon Vesper Sparrow Working Group
Corvallis, OR

Joint Base Lewis-McChord

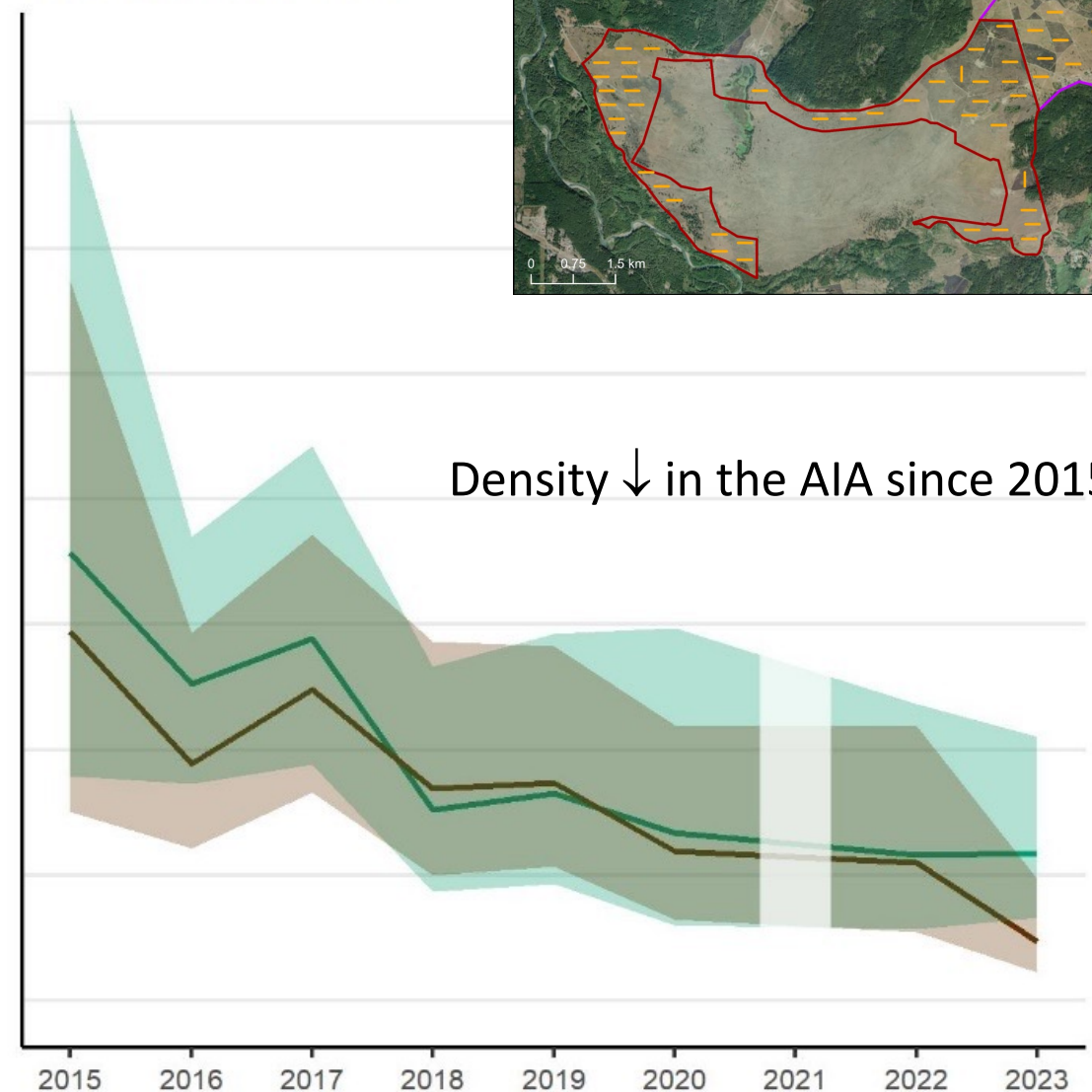
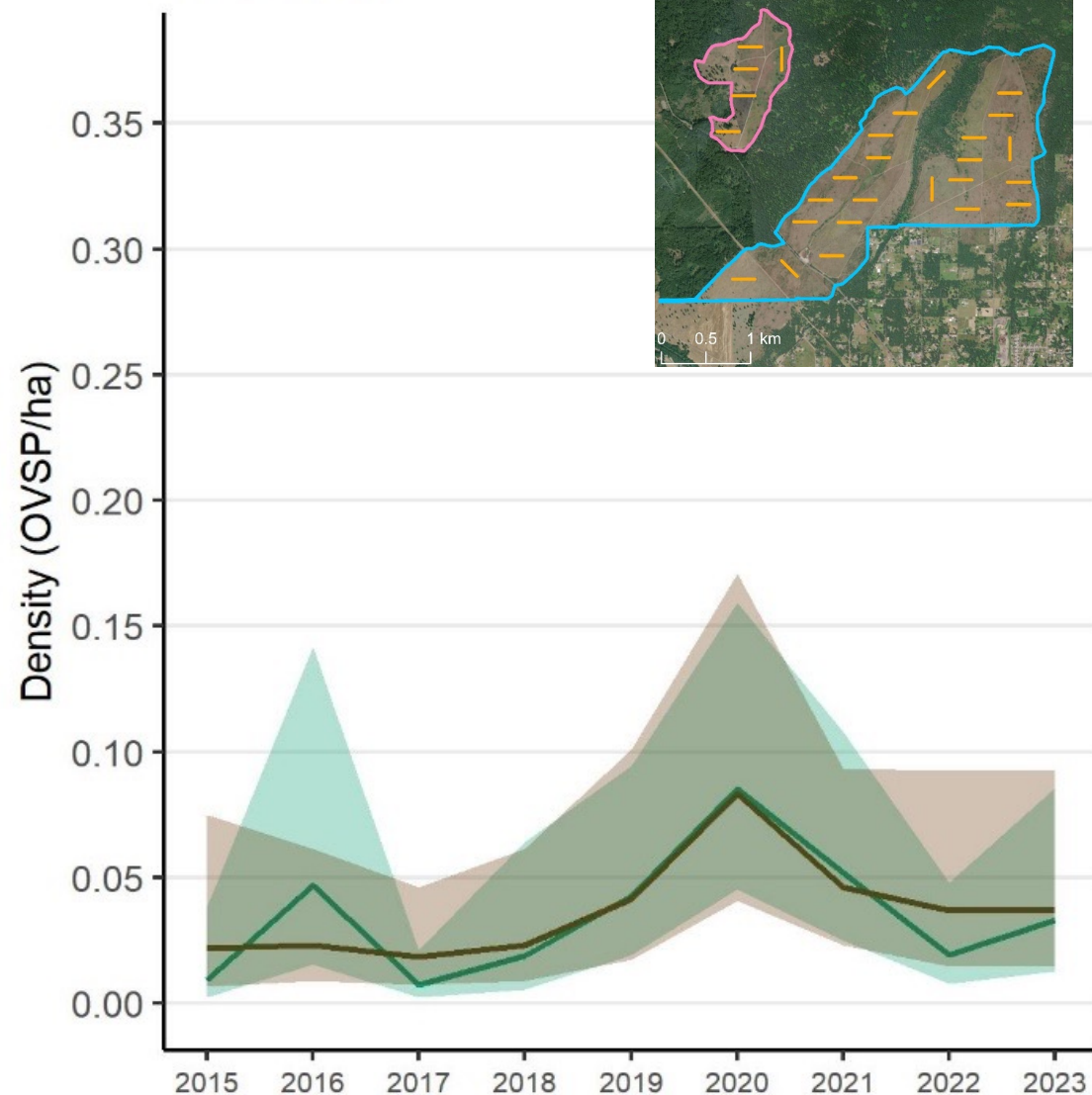
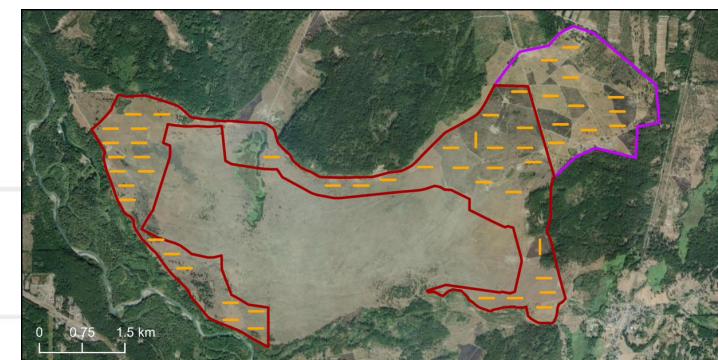
- Supports two populations; only known sites > 15 individuals
- Survey conducted 2015-2023
- ~110 250m transects
- 3 visits: early May – late June
- Distance estimated



Weirs Prairie

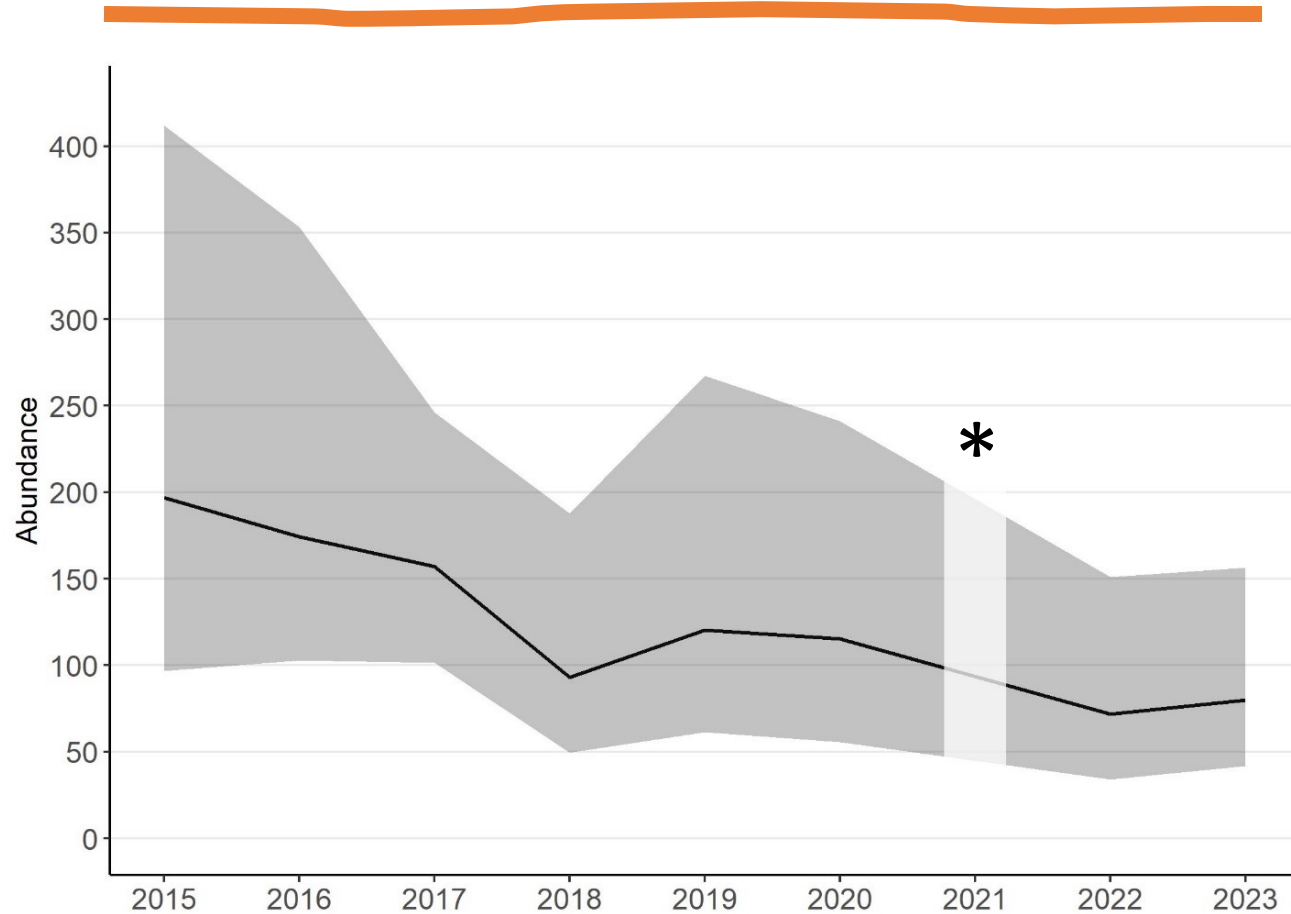


Artillery Impact Area



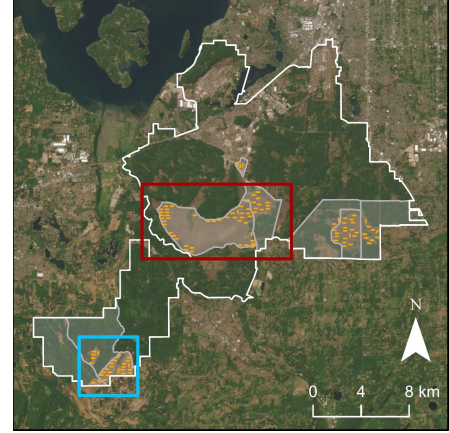
Full Data Singing Males

Joint Base Lewis-McChord



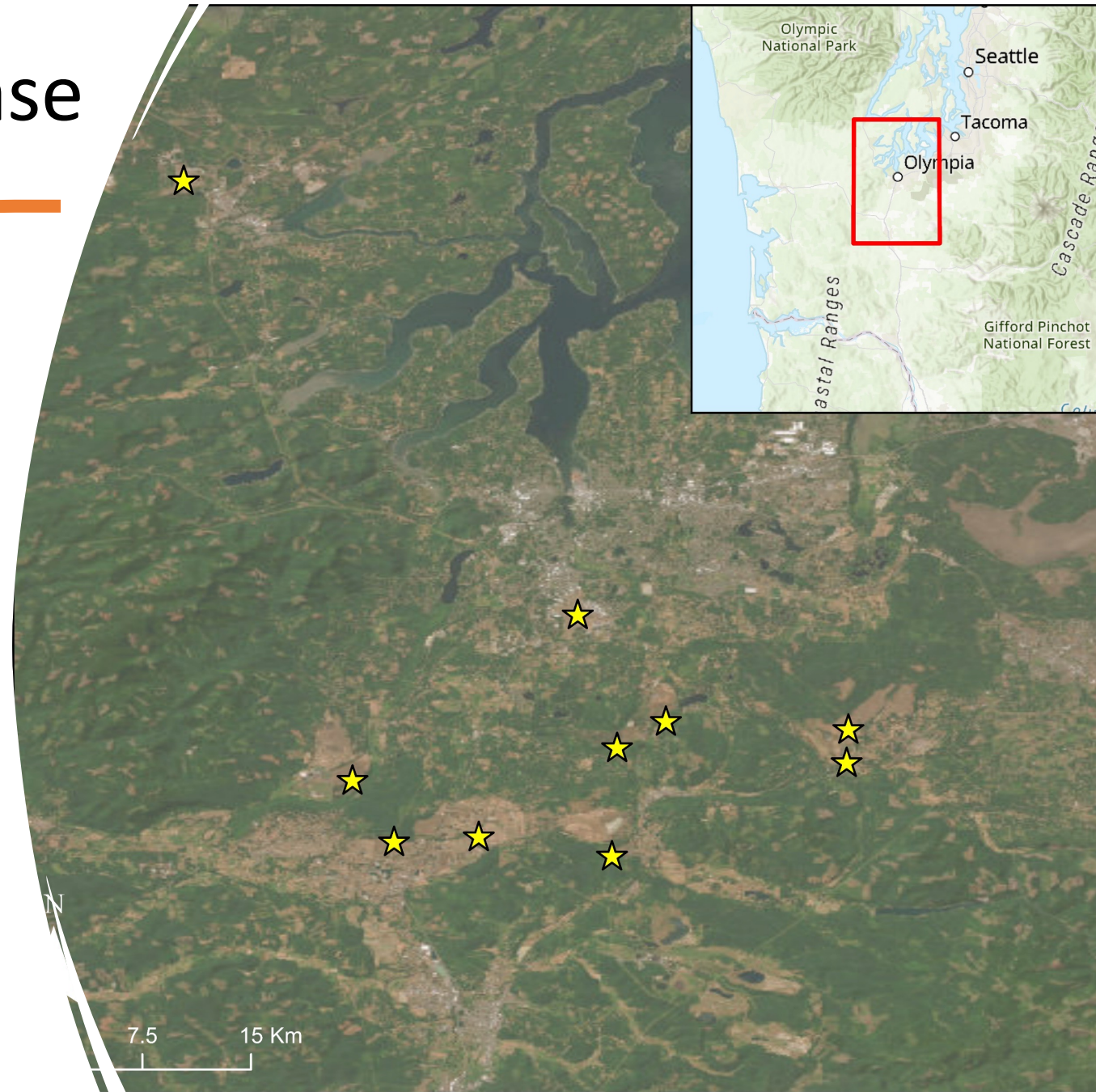
*Artillery Impact Area not surveyed in 2021 due to access restrictions

- Population restricted to two locations
- Density estimates converged
- Population estimate < 100 OVSP within inference area in 2023
- AIA uncertainty due to donut hole



South Puget Sound: Off-base

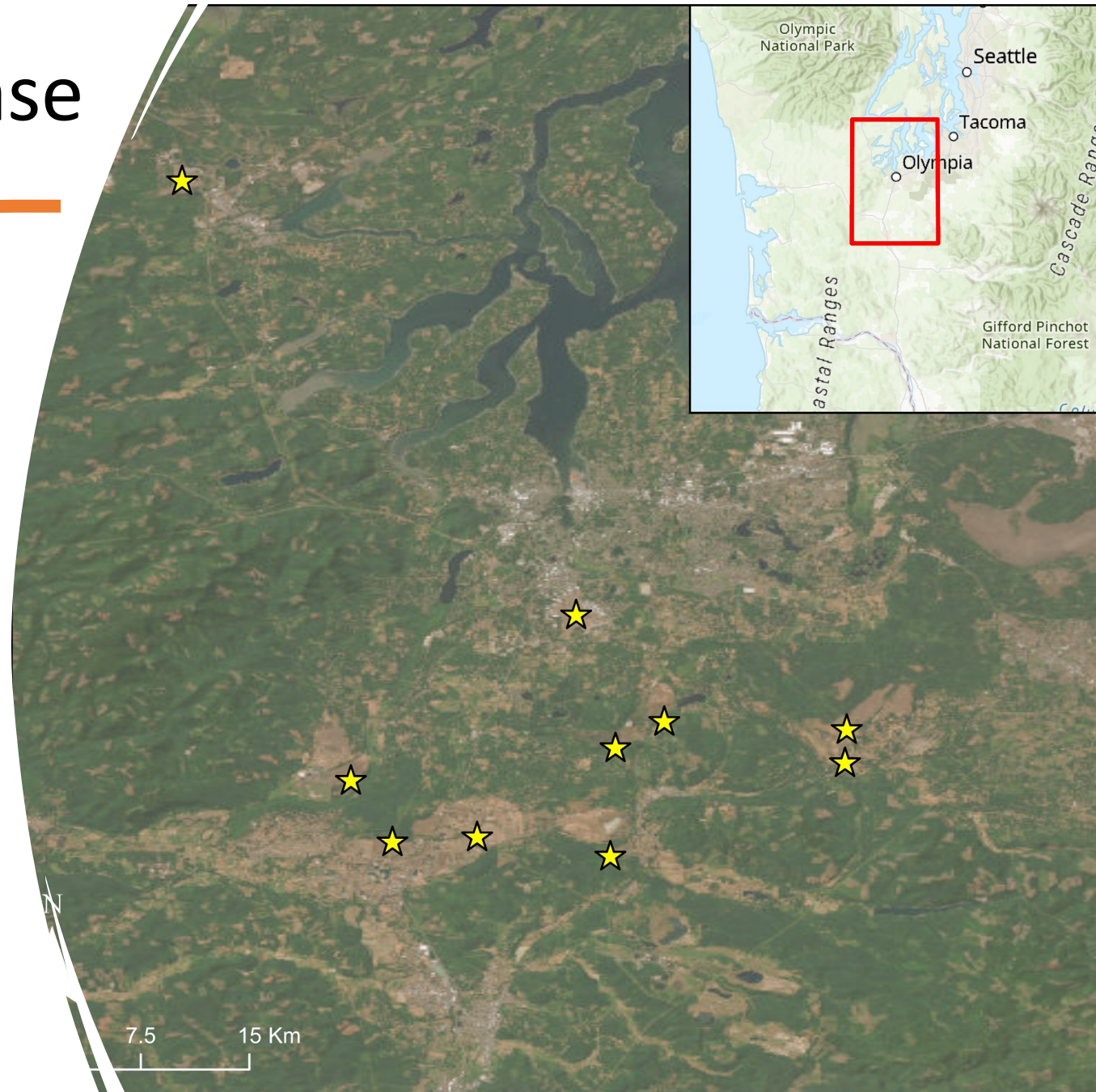
- ~7 sites in South Sound with detection records
- Various surveys conducted since 2015 from multiple funding sources



Site	Land Manager	2018	2019	2020-21	2022	2023
Glacial Heritage Preserve*	Thurston County	SWG/PB	SWG/PB			CA/SWG
Mima Mounds NAP*	WDNR	SWG/PB	SWG/PB			SWG
Sanderson Airfield*	Port of Shelton	SWG/PB	SWG/PB			
Olympia Airfield*	Port of Olympia	SWG/PB	SWG/PB			
West Rocky Prairie WMA*	WDFW	SWG/PB	SWG/PB			
Tenalquot Preserve*	CNLM	NM	NM	NM	NM	SWG/NM
Scatter Creek WMA (North/South)*	WDFW	SWG/PB	SWG/PB			CA
Mazama Meadows	Thurston Cty				CA	
Violet Prairie Preserve	CNLM	SWG/PB	SWG/PB			
<i>NEW</i> Violet Prairie	WDFW					Area Search
Wolf Haven	Wolf Haven Inter.	SWG/PB	SWG/PB			
Cavness	CNLM	SWG/PB	SWG/PB			
Deschutes Prairie	CNLM	SWG/PB	SWG/PB		CA	

South Puget Sound: Off-base

- Only two off-base sites are known to be occupied
 - Tenalquot/Adjacent private grazed lands
 - Sanderson Field
- Occasional detections at McChord Airfield, JBLM
- Effective regional population <125 individuals

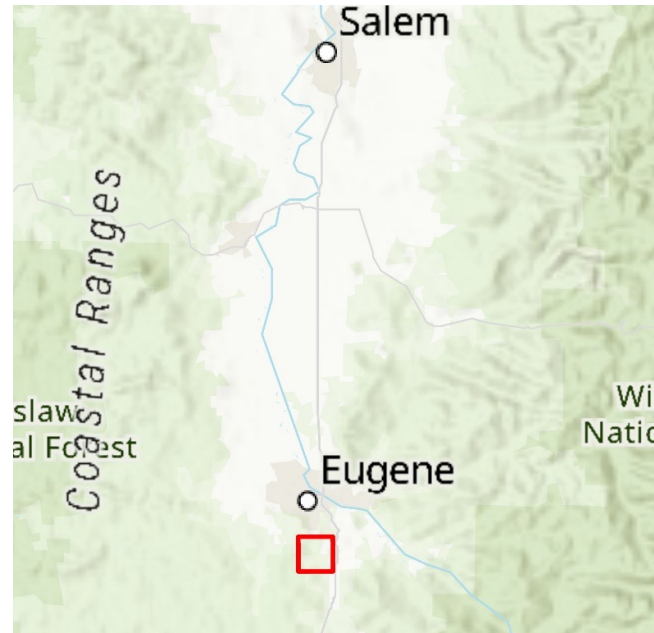


Questions?



Willamette Valley: Creswell Oaks Preserve

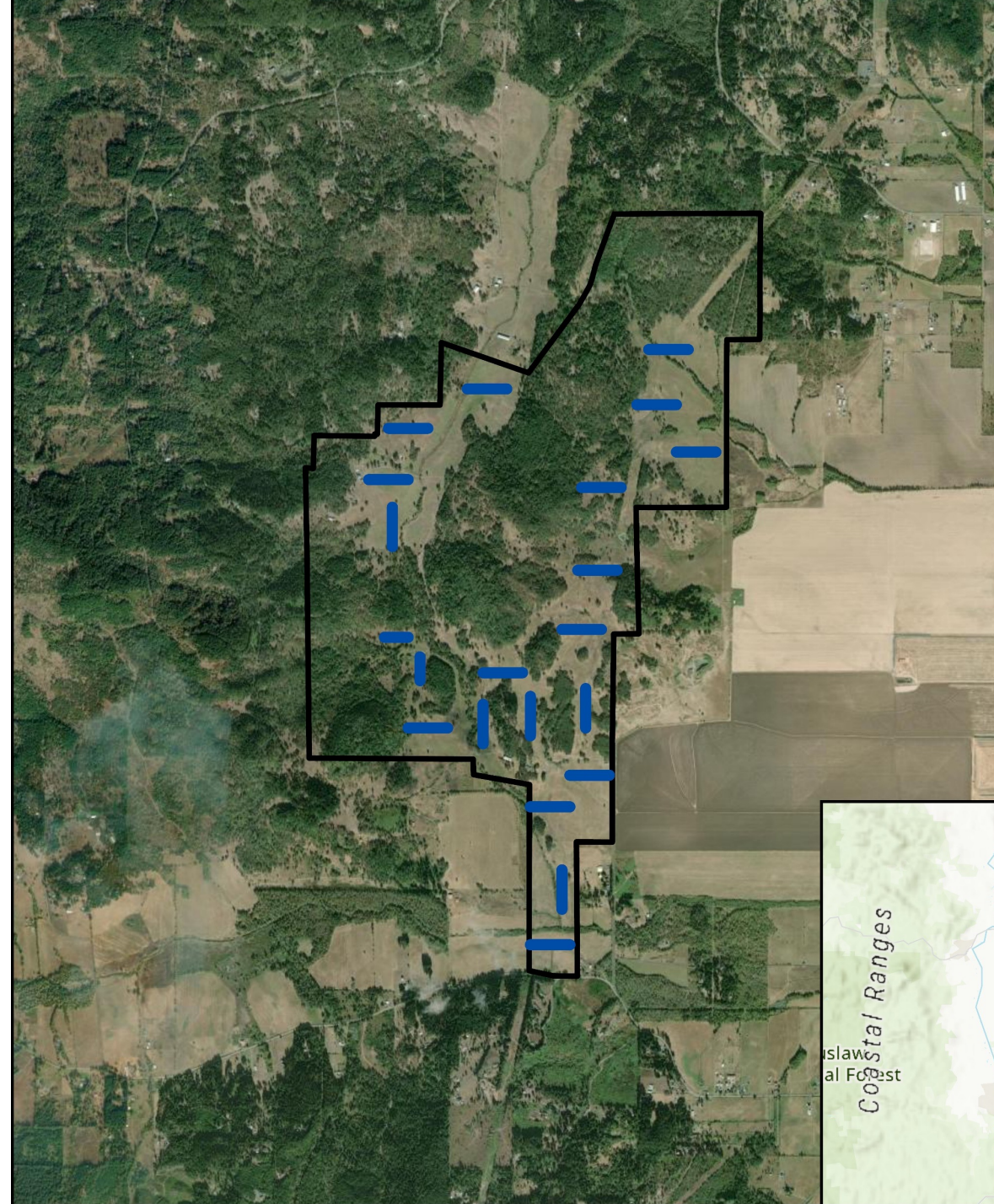
- > 1,600 acres undeveloped grassland and woodlands
- Working lands; high-intensity, short duration grazing
- Supports one of the largest OVSP populations in the region



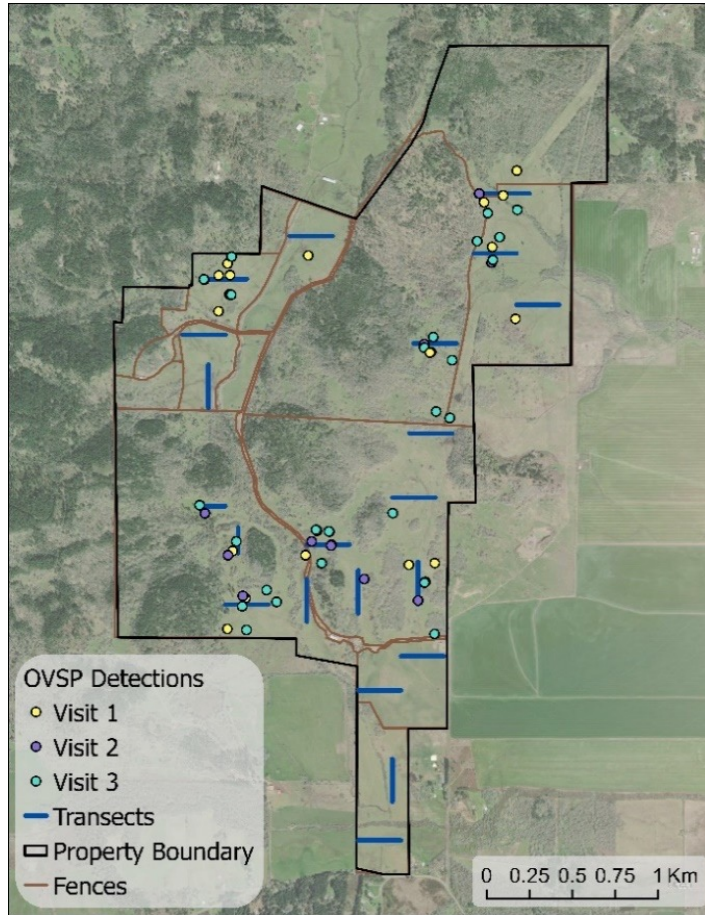
Willamette Valley: Creswell Oaks Preserve

Sampling

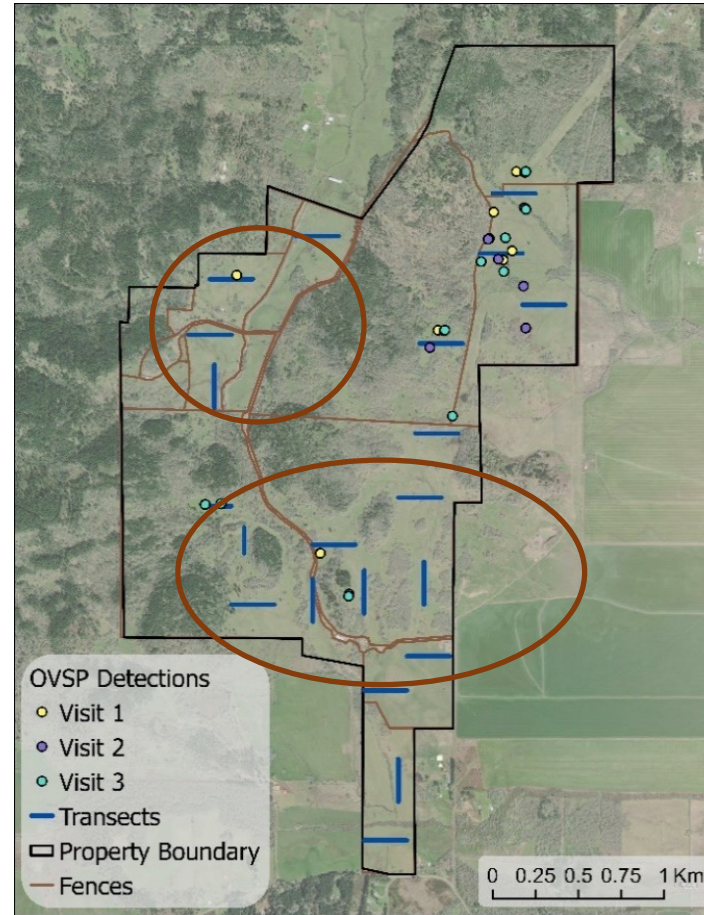
- 21 transects; 100-250m
- 3 visits: early May – late June
- Distance estimated



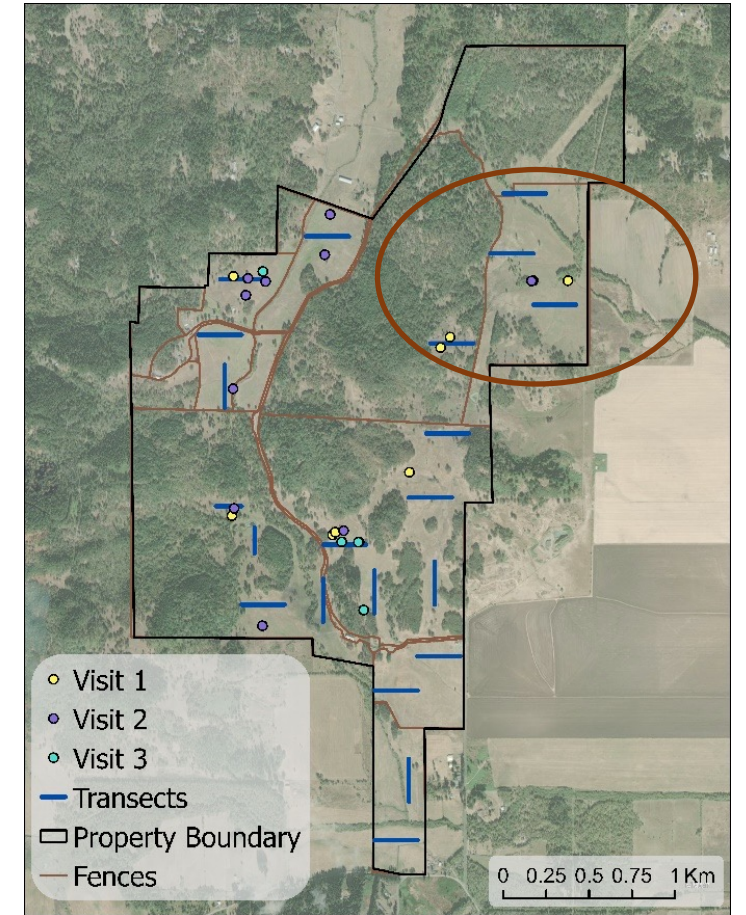
Decreasing detections and spatial shift in the last three years



2021

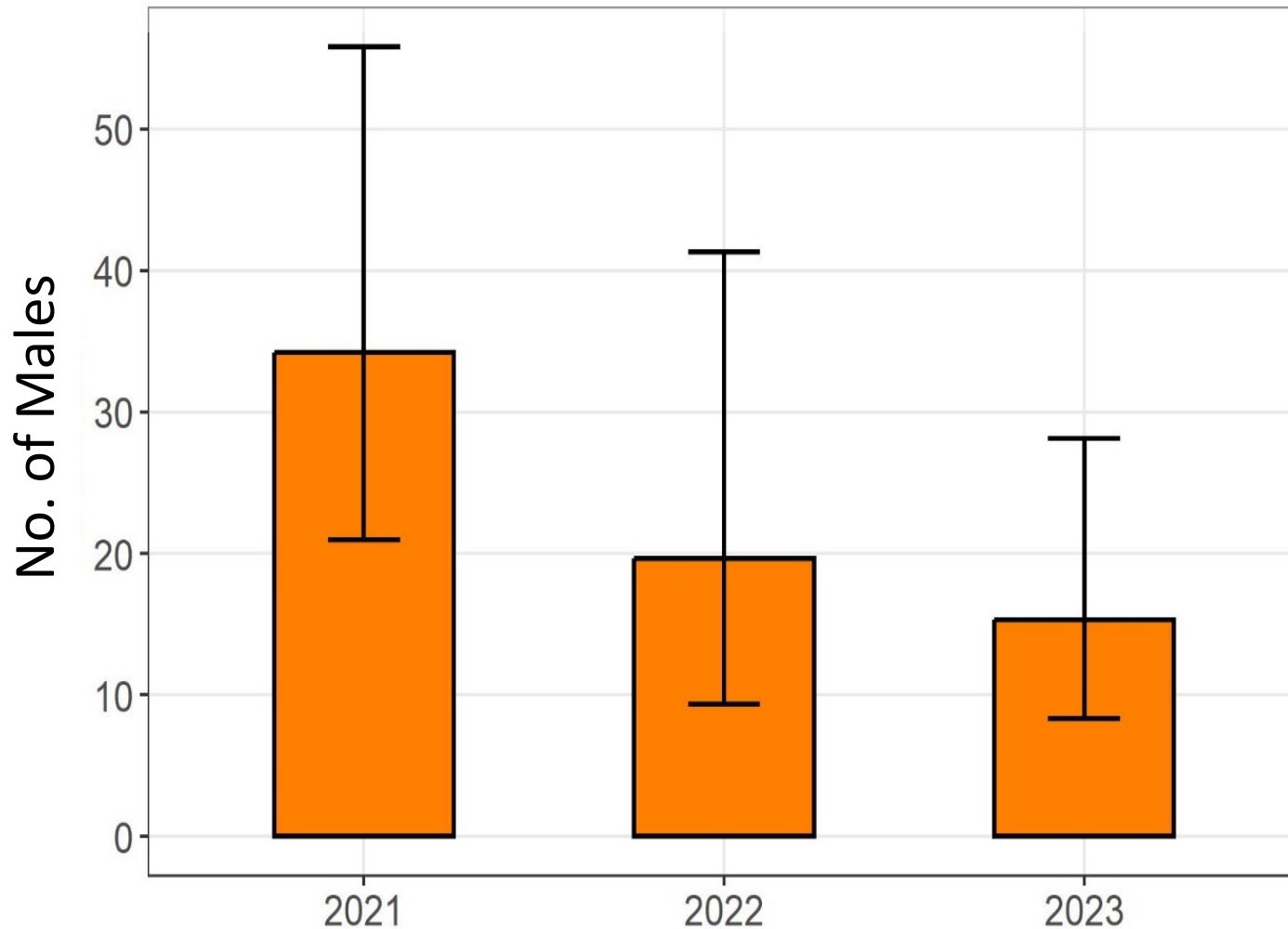


2022



2023

Willamette Valley: Creswell Oaks Preserve



- Distance sampling estimated 15 males in 2023; less than half of 2021 population

Questions?

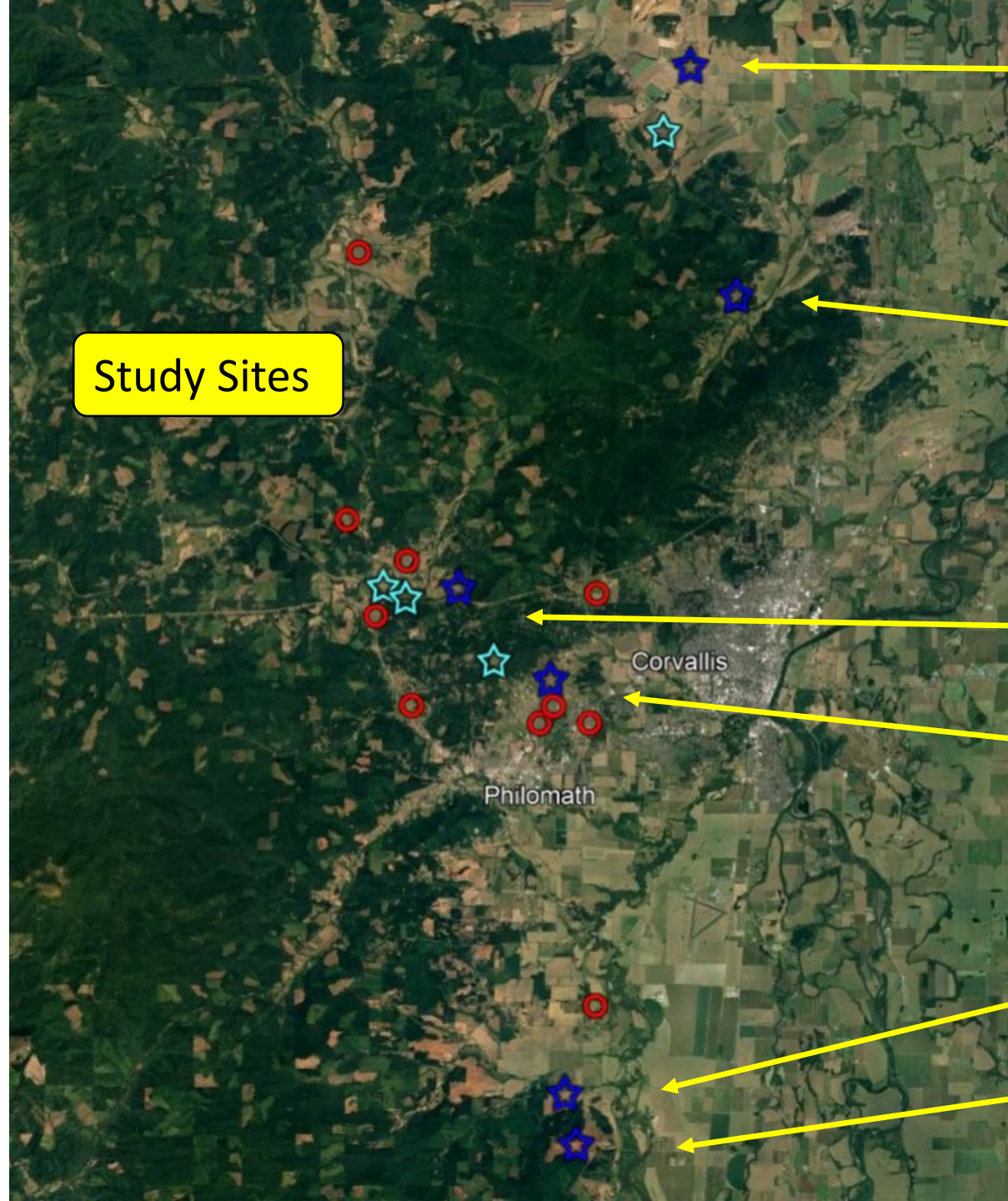


**An Assessment of Population Status, Limiting Factors, and
Conservation Actions for an Oregon Vesper Sparrow Metapopulation
in the Willamette Valley, Oregon, 2016-2023**



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

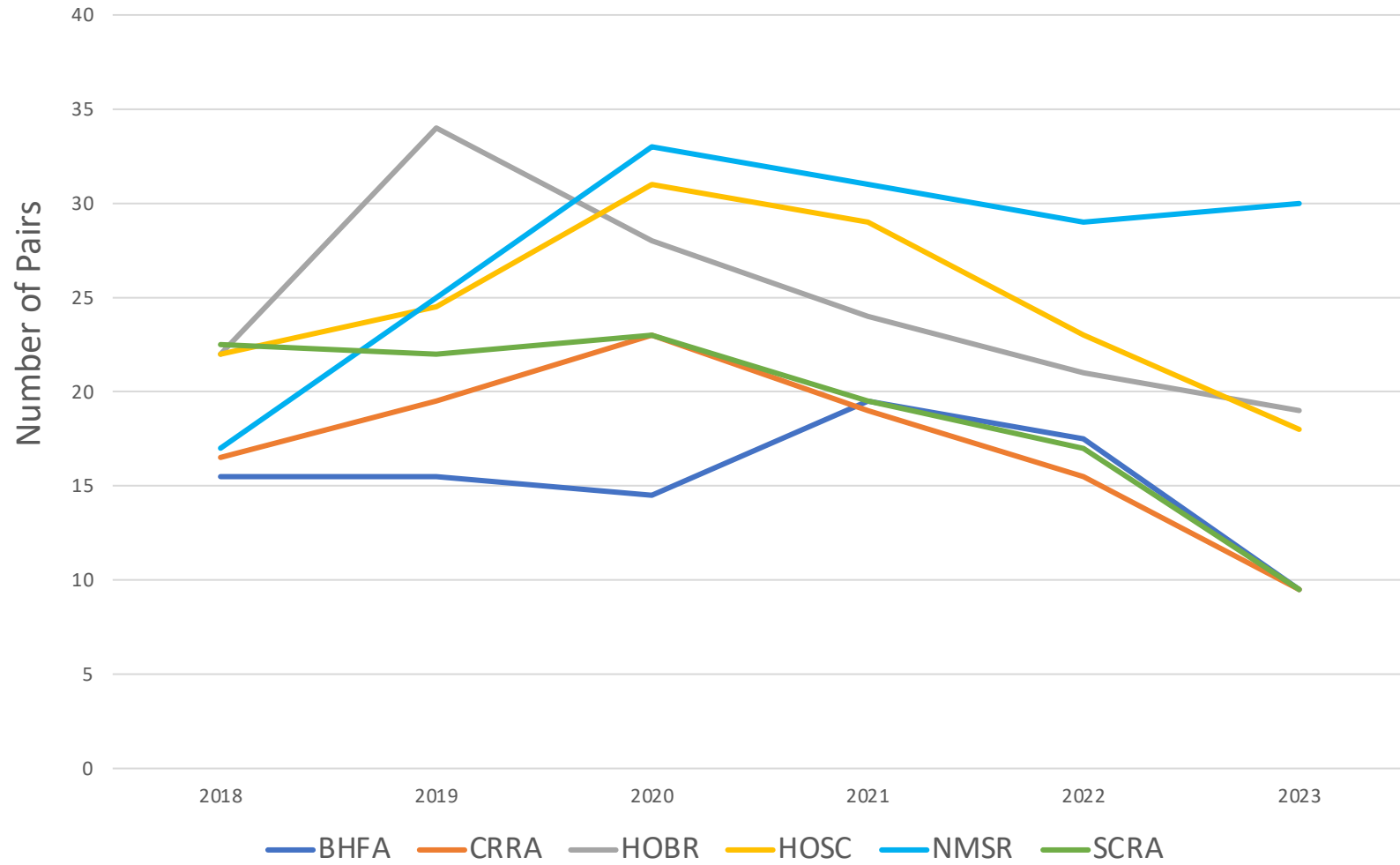
Bald Hill Farm

Muddy Creek Tree Farm

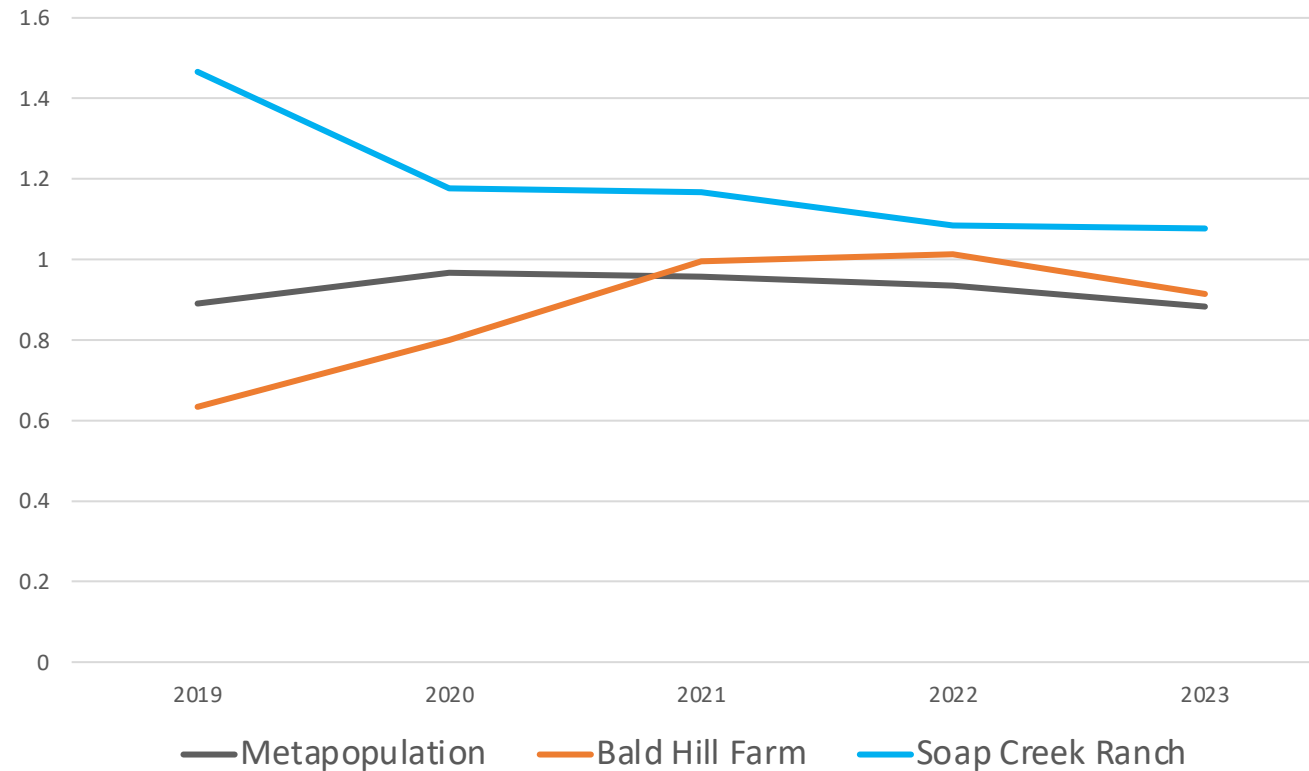
Star Creek Tree Farm

Bellfountain Tree Farm

Population Trends



Lambda



adult female survival

first-year survival

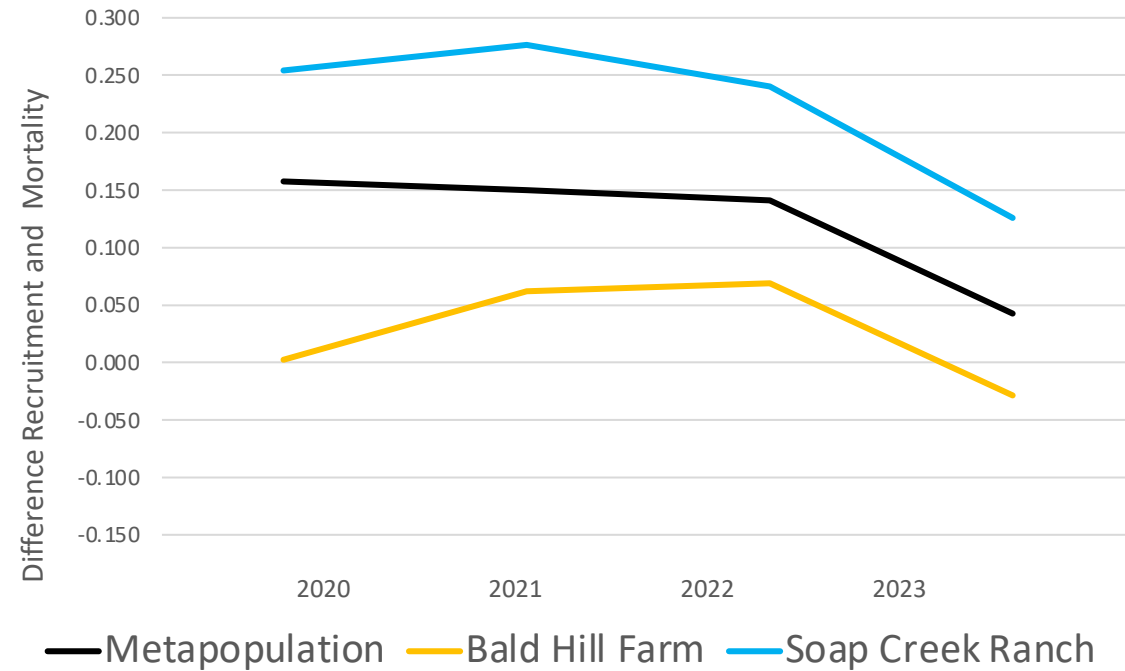
nest success

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)