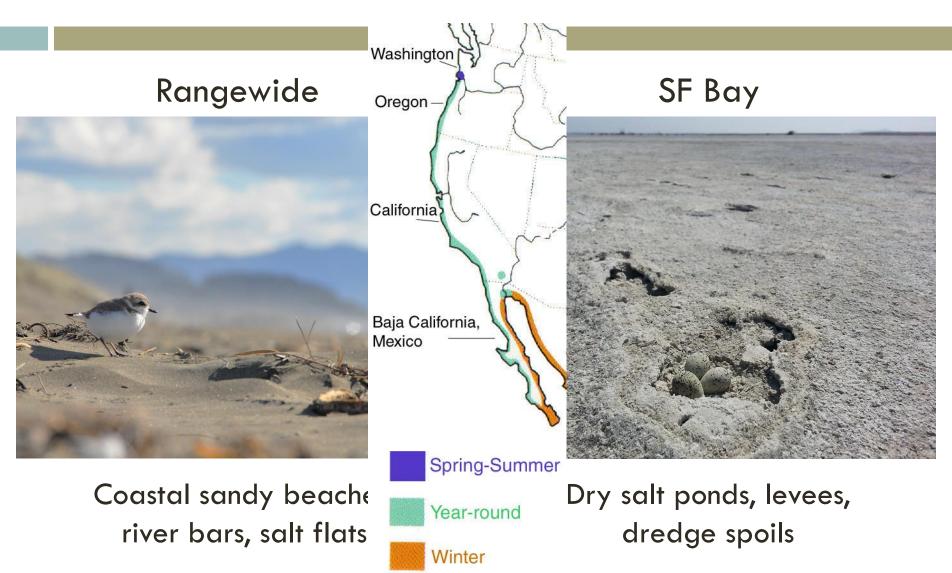
Snowy Plovers: Doing More With Less?



Karine Tokatlian

San Francisco Bay Bird Observatory / SJSU

Western Snowy Plover



What's the problem?

Federally threatened, 1993

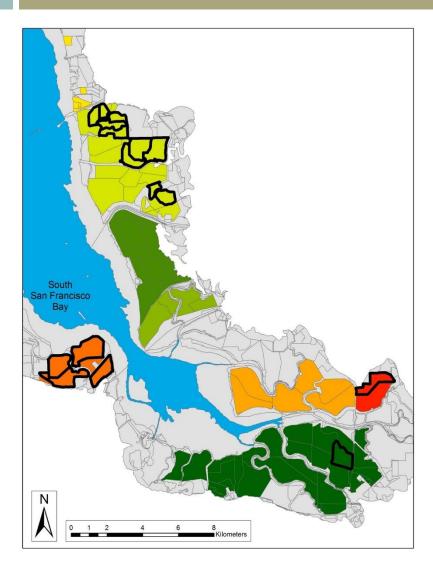
- 1. Habitat loss
- 2. Predation
- 3. Climate change
 - Sea level rise







SF Bay Population Management



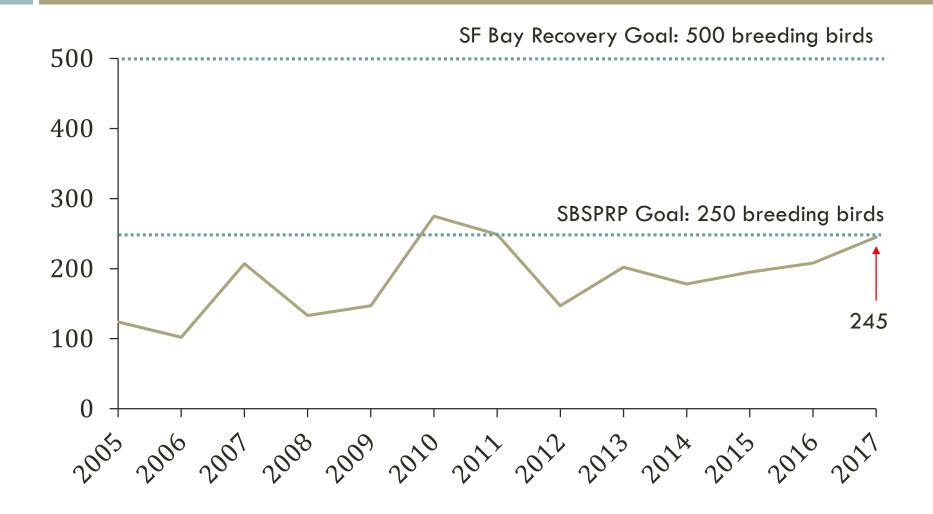
Annual monitoring
Collaborative management
Research

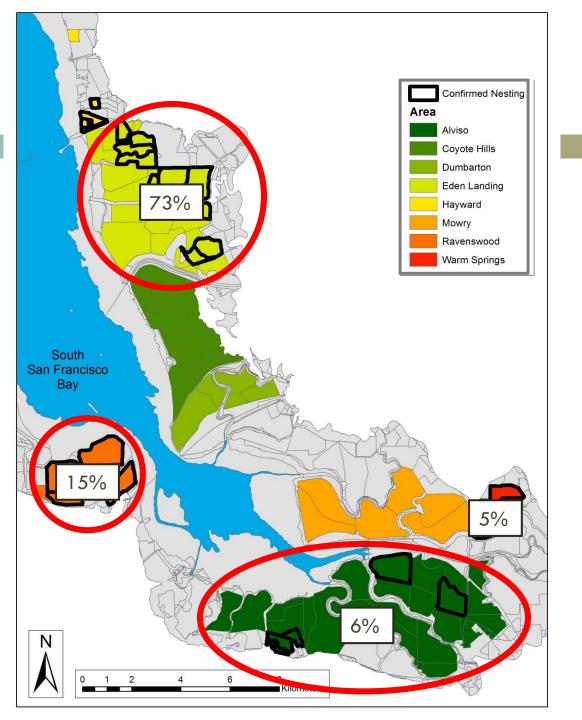




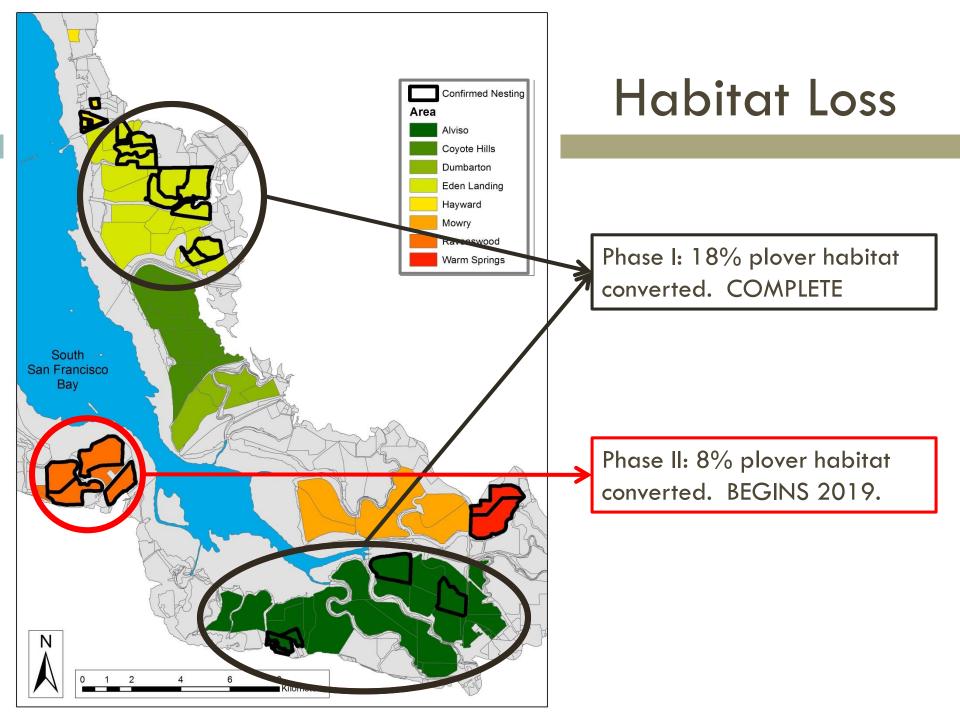
South Bay Salt Pond Restoration Project

SF Bay Population





Restoration





How to increase plover breeding success as habitat is changed for Restoration ?



Oyster Shell Enhancement



Provide camouflage and cover

Increase breeding success





Enhancement Results

- Plover nest density increased in enhancement plots
- Plovers selected to nest in enhancement plots
- Plover daily nest survival rates did not statistically improve due to enhancement
- Predation pressure high



Predation Pressure















SF Bay Recovery Goal: 500 breeding birds

SBSPRP Goal: 250 breeding birds

□ Should these numbers be revisited?

Future Needs

Predator – enhancement dynamics
 New technologies (drone, GPS)
 Mixed-management & resource efficiency



Thank you!

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