Keeping dry ponds as part of wetland restoration? A summary of snowy plover recovery efforts in South Bay salt ponds



Ben Pearl San Francisco Bay Bird Observatory South Bay Salt Pond Science Symposium May 11, 2022

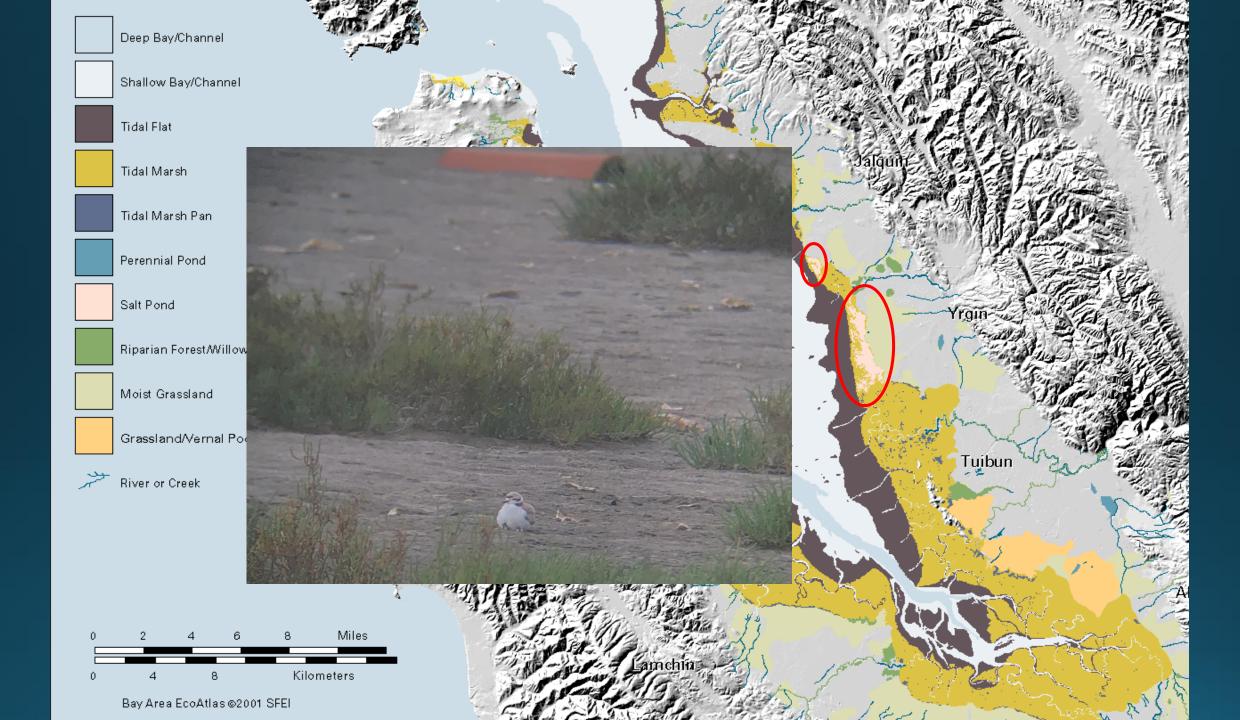
Outline

1. Snowy plovers in the South Bay

2. SBSPRP actions to support snowy plovers

. Current/next steps to reach population goals





Salt ponds provide critical nesting habitat

- Salt panne found across the Pacific Coast
 - Baja CA
 - San Diego Bay NWR
 - Marine Corps Base Camp Pendleton
 - Bolsa Chica Ecological Reserve
 - Moss Landing Wildlife Area
- South San Francisco Bay most extensive
- SF Bay Estuary supports ≈ 10% of entire listed population
 - SBSPRP footprint = 91.0±4.5% of breeding plovers 2015-21
- USFWS Recovery Plan calls for SF Bay Estuary to support 16%
 - Includes bayside portions of the 9 county Bay Area except SF
 - Recovery Unit 3 (RU3)

Manage ponds to support wildlife



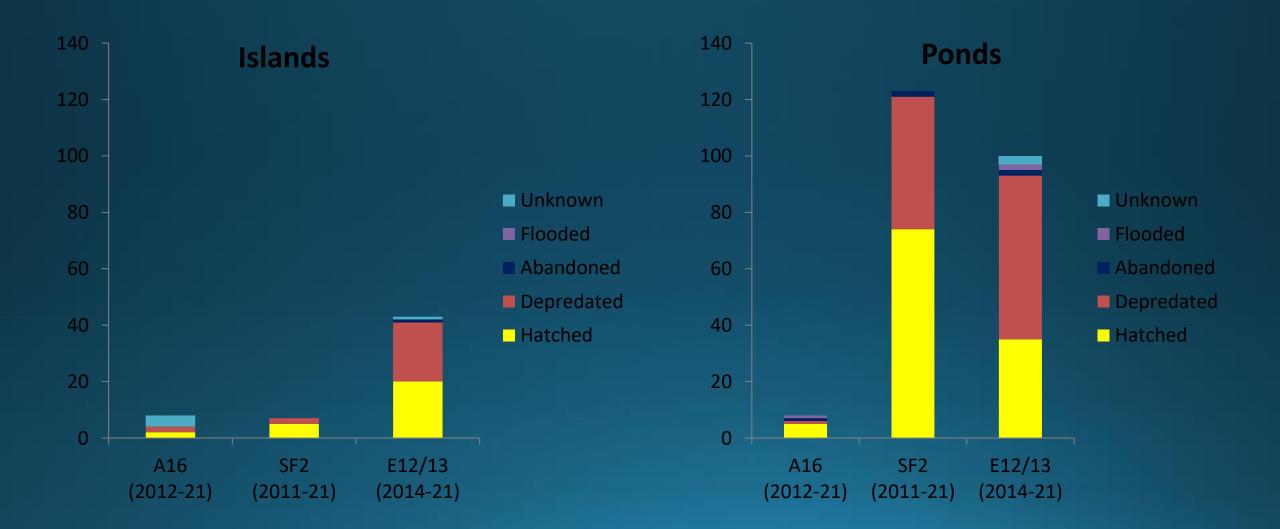
Pond management for wildlife boosts population

Recovery Unit 3 — South Bay SPRP ---Recovery Unit 3 Goal ---South Bay SPRP Goal

Nesting Islands

- Alviso (A16), Eden Landing (E12-13), and Ravenswood (SF2)
- Nesting habitat for pond dependant species after reconfiguration
 Snowy plover social attraction at A16 and SF2
- Initial plover interest in islands at all three sites
 - Not used by plovers at A16 and SF2 after 2-3 years
 - Nesting continues at E12/13 at low frequency

Nest success and abundance



Oyster Shell Enhancement at E14

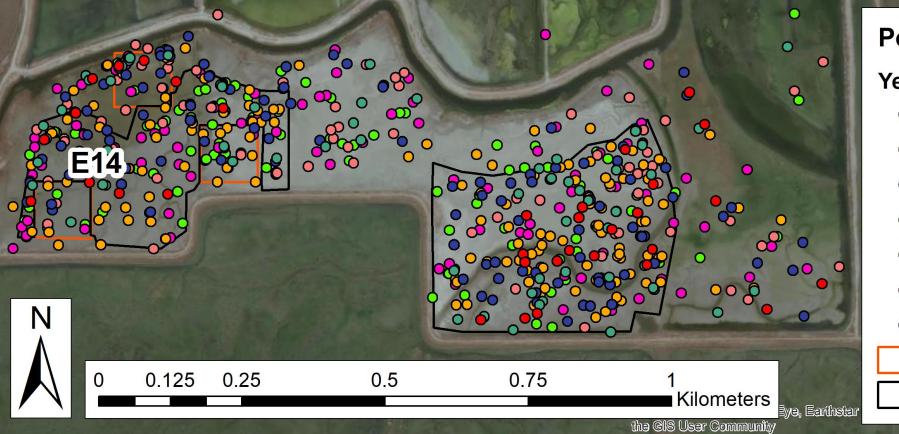
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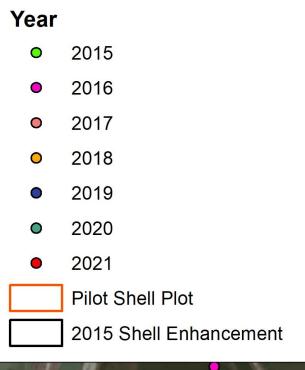






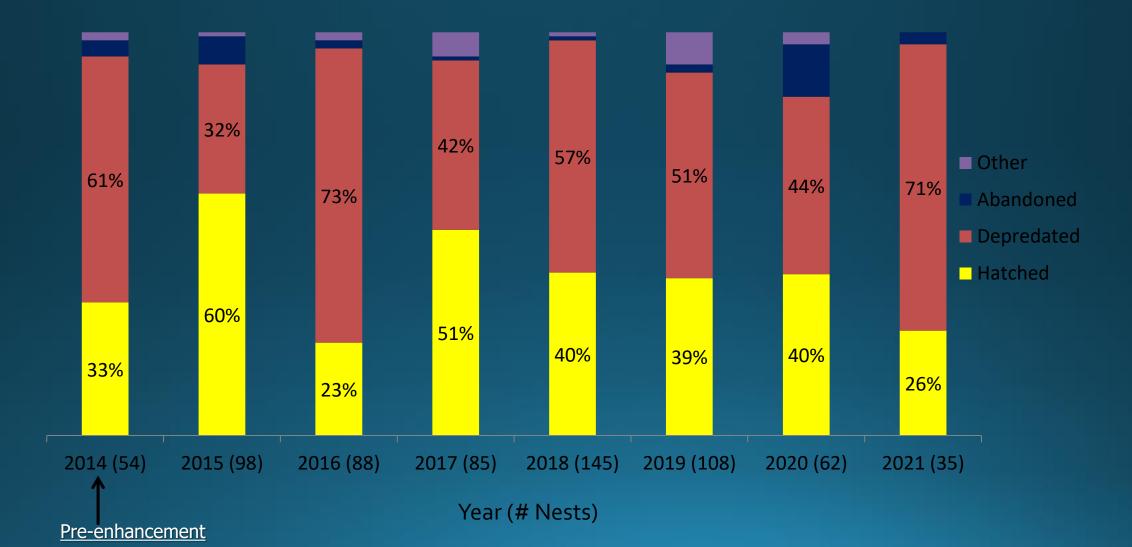


Pond E14 Snowy Plover Nests

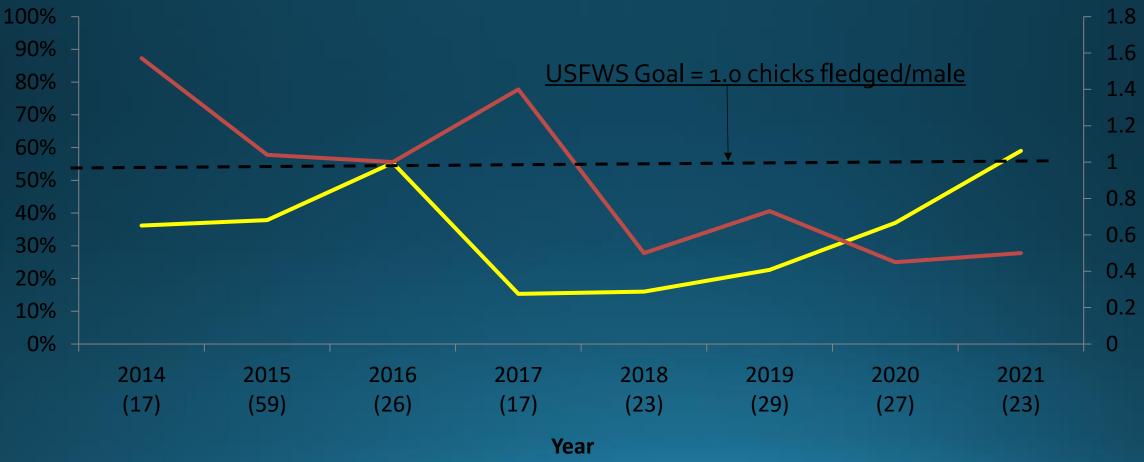




Poor hatching success most years



Recovery goal not met most years



(# Chicks Banded)

Predators know where to get an easy meal













Population fluxuates, stable overall Recovery Unit 3 — South Bay SPRP — Recovery Unit 3 Goal — South Bay SPRP Goal

Nest Steps: Physical barriers



Next Steps: More pond enhancement!



Thanks to everyone who made this work possible!

- SFBBO staff and volunteers
- USFWS
- CDFW
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- Everyone else I forgot to mention 😳