

Avian Predation Management in the Columbia River Estuary



Columbia River Estuary

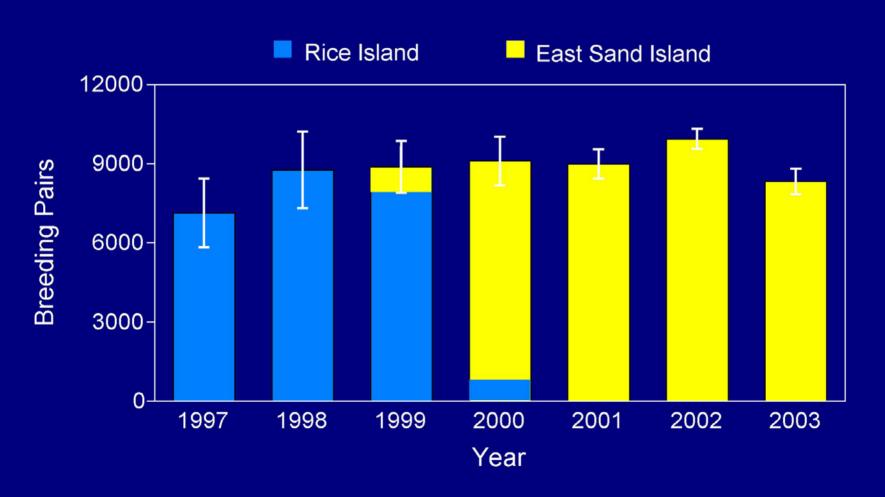


Caspian Tern Management Columbia River Estuary

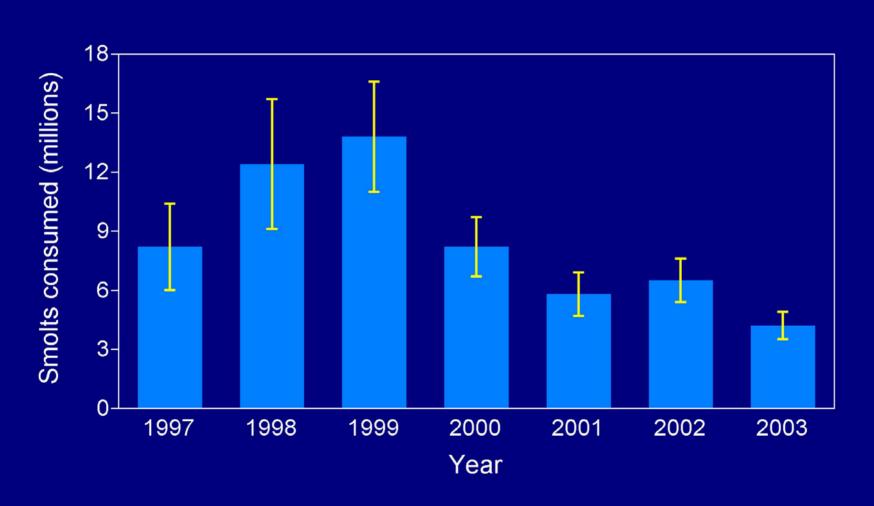
- East Sand Island annually prepare ~6 acres
 - Supports entire Caspian tern population
- Rice Island Former colony location at d/s end overgrown with vegetation; No hazing required in 02, 03, 04 and 05.
- Miller Sands Spit Frequent use for dredged material disposal; hazing required in 03.
- Pillar Rock Island Frequent use for dredged material disposal; hazing required in 02, 03, 04 and 05.



Caspian Tern Colony Size in the Columbia River Estuary



Salmonid Consumption by Caspian Terns in the Columbia River Estuary



EIS Alternative C – Redistribution of ESI Tern Colony (Preferred Alternative)

- Population objective of 2,500 3,125 pairs
- Ramp habitat acreage down gradually
- Maintain 1-1.5 acres of habitat on ESI
- Redistribute tern population through nesting habitat (~8 ac) development/social facilitation at 6 locations in OR (3) and CA (3)

Caspian Tern Draft EIS Provisions Columbia River Estuary

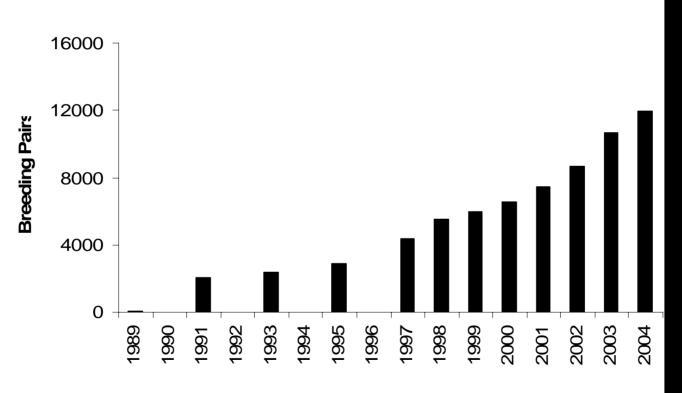
- Corps will continue to prevent Caspian tern nesting in the upper estuary (Rice, Pillar Rock, Miller Sands Spit)
- USFWS will permit egg take if initial hazing activities fail
- Corps can resume dredged material disposal on d/s end (former colony location) of Rice Island.

Double-crested Cormorants



Background: Cormorants









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