

### GOALS

- By 2025, improve or maintain water and sediment quality and quantity conditions that fully support healthy and diverse aquatic ecosystems..
- By 2025, maintain, restore, and anticipate accommodation space for future salt marsh development.
- By 2025, maintain and improve biotic diversity including genetic, species, and structural diversity of native species in salt-marsh habitats.
- By 2025, improve salt-marsh habitat structure, function, and composition by reducing the impact and spread of invasive species.
- By 2025, maximize opportunities and planning for tidal marsh upland transgression on adjacent lands.
- By 2025, increase resiliency of salt-marsh habitat by providing high-tide refugia for sensitive species.
- By 2025, flow objectives are met consistent with the Bay-Delta Water Quality Control Plan requirements.
- By 2025, improve water quality by meeting Total Maximum Daily Load requirements for organic and inorganic pollutants.

The State Wildlife Action Plan examines the health of wildlife and prescribes actions to conserve wildlife and vital habitat before they become more rare and more costly to protect. The plan also promotes wildlife conservation while furthering responsible development and addressing the needs of a growing human population.

### STRATEGIES, OBJECTIVES AND ACTIVITIES

- Partner for joint advocacy
  - Objectives
    - Create high-level multi-agency/Non-governmental organization (NGO) partnership to coordinate conservation actions
    - Through partnerships, enhance political awareness of need to conserve salt-marsh habitat in San Francisco Bay Delta Conservation Unit
    - Solicit additional funding through grants or political advocacy
  - Activities
    - Coordinate with umbrella agencies/groups in San Francisco Bay Delta Conservation Unit
    - Advocate science based decisions and process
- Integrated Resource Management
  - Objectives
    - Coordinate and integrate ongoing management activities
    - Enhance working landscapes to benefit fish and wildlife
  - Activities
    - Create common set of biological/ecological indicators
    - Develop common methods/priorities for habitat restoration and management
- Advocate for Laws and Policies
  - Objectives
    - Influence land use policies to reduce impacts on salt-marsh habitat
    - Streamlining permit process for restoration
    - Enhance law enforcement capacity
  - Activities
    - Make recommendations to enhance enforcement of existing laws and regulations
    - Develop legislative and regulatory proposals for streamlining permit process
- Control invasive species
  - Objectives
    - Coordinate update and implementation of landscape level invasive species monitor and control plan
  - Activities
    - Monitor invasives and continue removal efforts as needed to keep populations in check
- Conduct research (data management)
  - Objectives
    - Coordinate research efforts and data sharing
    - Identify and prioritize data gaps for future investigation/research
  - Activities
    - Create central repository for data, research tracking, and coordination
    - Evaluate and prioritize existing long-term baseline data gathering efforts
- Education & Outreach
  - Objectives
    - Educate local agencies and the public on the biological values of the San Francisco Bay Delta Conservation Unit
    - habitats and the existing threats affecting fish and wildlife.
  - Activities
    - Participate in existing partnerships for developing education and outreach strategy for San Francisco Bay Delta Conservation Unit
- Acquire, restore and protect salt marsh
  - Objectives
    - Within 10 years Restore 10,000 acres salt-marsh habitat
    - Acquire, protect, enhance salt marsh habitat in the San Francisco Bay Delta Conservation Unit
    - Support Delta Conservancy to establish priority for restoration in San Francisco Bay Delta Conservation Unit

### SENSITIVE SPECIES

- Alameda song sparrow
- American white pelican
- Black skimmer
- Brant
- Bryant's savannah sparrow
- California black rail
- California clapper rail
- California least tern
- Least bittern
- Loggerhead shrike
- Long-eared owl
- Northern harrier
- Saltmarsh common yellowthroat
- Salt-marsh harvest mouse
- Salt-marsh wandering shrew
- San Francisco common yellowthroat
- San Pablo song sparrow
- San Pablo vole
- Short-eared owl
- Suisun shrew
- Suisun song sparrow
- Tricolored blackbird
- Tule-greater white-fronted goose
- Western snowy plover
- White-tailed kite
- Yellow-headed blackbird

- Fish List:**
- Delta smelt
  - Sacramento split-tail
  - Tidewater goby
  - Tule perch

### ENVIRONMENTAL STRESSES

- Change in snowpack
- Change in air temperature
- Change in runoff and river flow
- Change in pollutants
- Change in snow cover period
- Change in sea level rise
- Change in sediment erosion-deposition regime
- Change in spatial extent of community
- Change in community structure or composition
- Change in frequency or intensity of extreme events
- Change in biotic interactions
- Change in successional processes and ecosystem development
- Change in flood occurrence frequency
- Change in water levels and hydrology
- Water pollutants

### HUMAN RELATED IMPACTS

- Annual and perennial crops
- Commercial & industrial areas
- Dams & water management/use
- Greenhouse gas emissions
- Housing and urban areas
- Illegal fishing & harvesting
- Illegal hunting & collecting
- Invasive plants/animals
- Inappropriate livestock grazing
- Marine & freshwater aquaculture
- Recreational activities
- Renewable energy
- Roads & railroads
- Shipping lanes
- Tourism & recreation areas
- Utility & service lines



California clapper rail © 2008 Ram Vasudev



Northern harrier © 1999 Chris Green



Greater white-fronted goose © 2013 Ron Wolf



Black-headed blackbird, Glenn and Martha Vargas © California Academy of Sciences



Tidewater goby © 2007 Bradford Norman



Tule perch © 2011 Rob Schell



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### TEAM

Organization
CDFW-HCPB
San Francisco Bay Joint Venture
CDFW-R7
Delta Conservancy
Central Valley Joint Venture
CDFW-WB
CDFW-FB
CDFW-R7
CDFW-BDB
CDFW-R3

Roles
Team Member
Team Leader
Team Member
Team Leader

