Presentation to the SFEP IC

August 17, 2022

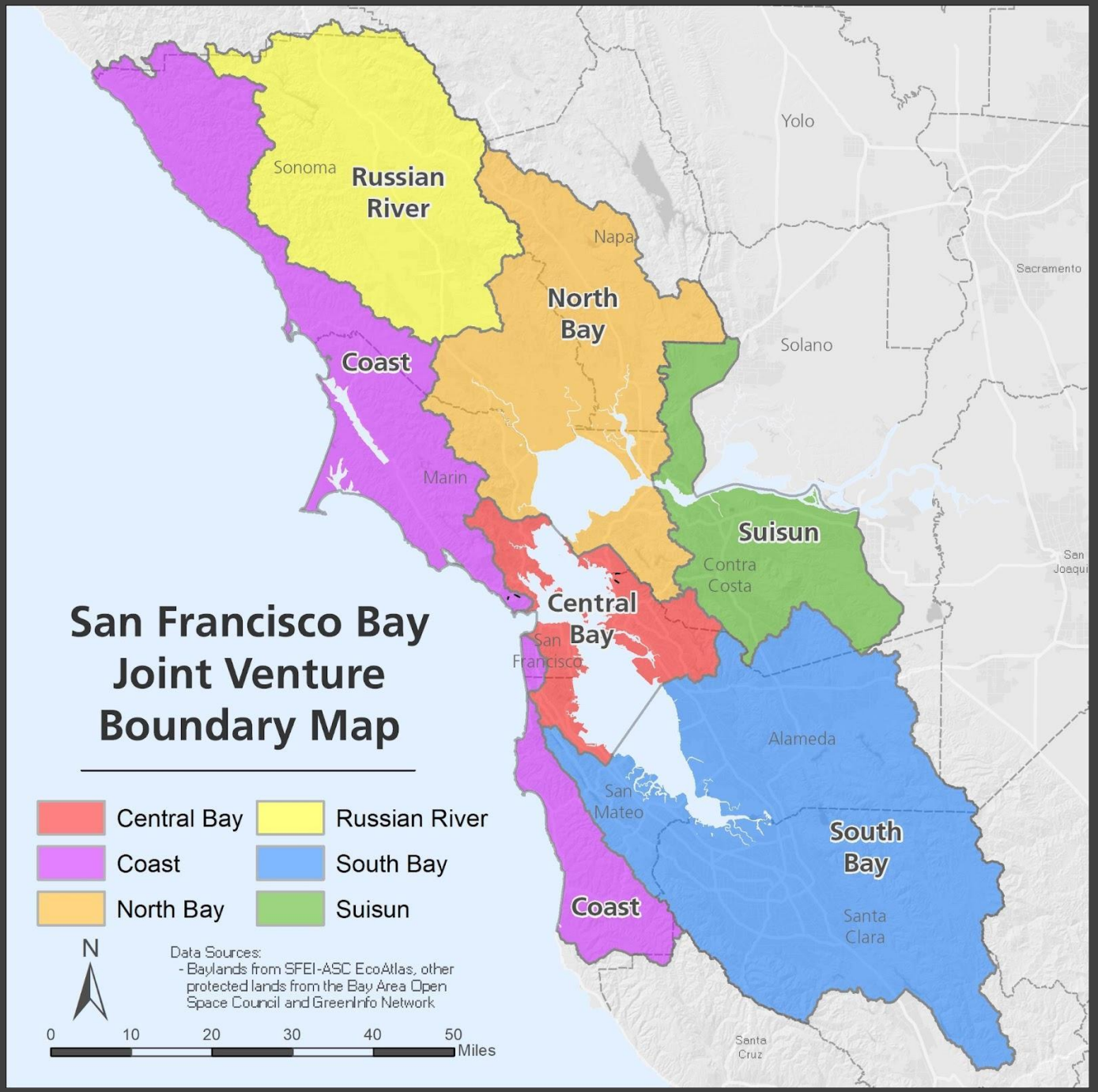
North American Habitat Joint Ventu

Administration and Fiscal Sponsorship

An Estuary of International Significance

SCOPE

- North Bay
- Central Bay
- South Bay
- Suisun/Delta
- Coastal watersheds
- Russian River



Management Board

GOVERNMENT - Federal

- Natural Resources Conservation Service
- NOAA fisheries
- US Army Corps of Engineers
- U.S. Environmental Protection Agency
- U.S. Fish and Wildlife Service
- US Geological Survey

NGO

- Audubon California
- Audubon Canyon Ranch
- Ducks Unlimited
- Citizens' Committee to Complete the Refuge
- Point Blue Conservation Science
- Save The Bay
- Together Bay Area

INDIVIDUALS

GOVERNMENT - State

- California Department of Fish and Wildlife
- California Natural Resources Agency
- State Coastal Conservancy
- San Francisco Bay Regional Water Quality Control Board
- Wildlife Conservation Board
- Bay Conservation and Development Commission

REGIONAL

- Mosquito Abatement Districts
- San Francisco Estuary Partnership

BUSINESS

- Pacific Gas & Electric Company
- Bay Planning Coalition

Management Board Leadership

Caitlin Sweeney, Chair
SF Estuary Partnership

Rebecca Schwartz Lesberg,
Vice Chair, Independent

Working Committees

- Conservation

Julian Wood, Chair
SF Bay Program Leader
Point Blue Conservation Science

- Policy

Rebecca Schwartz Lesberg, Chair
Independent

- Equity, Diversity, and Inclusion

Casey Arndt, Chair
Center Director Audubon California

Working Committees

- Communications and Outreach

Co led by
SFBJV
and Darcie Luce, SFEP

- Science

Renee Spenst, PhD, Chair
Regional Biologist
Ducks Unlimited

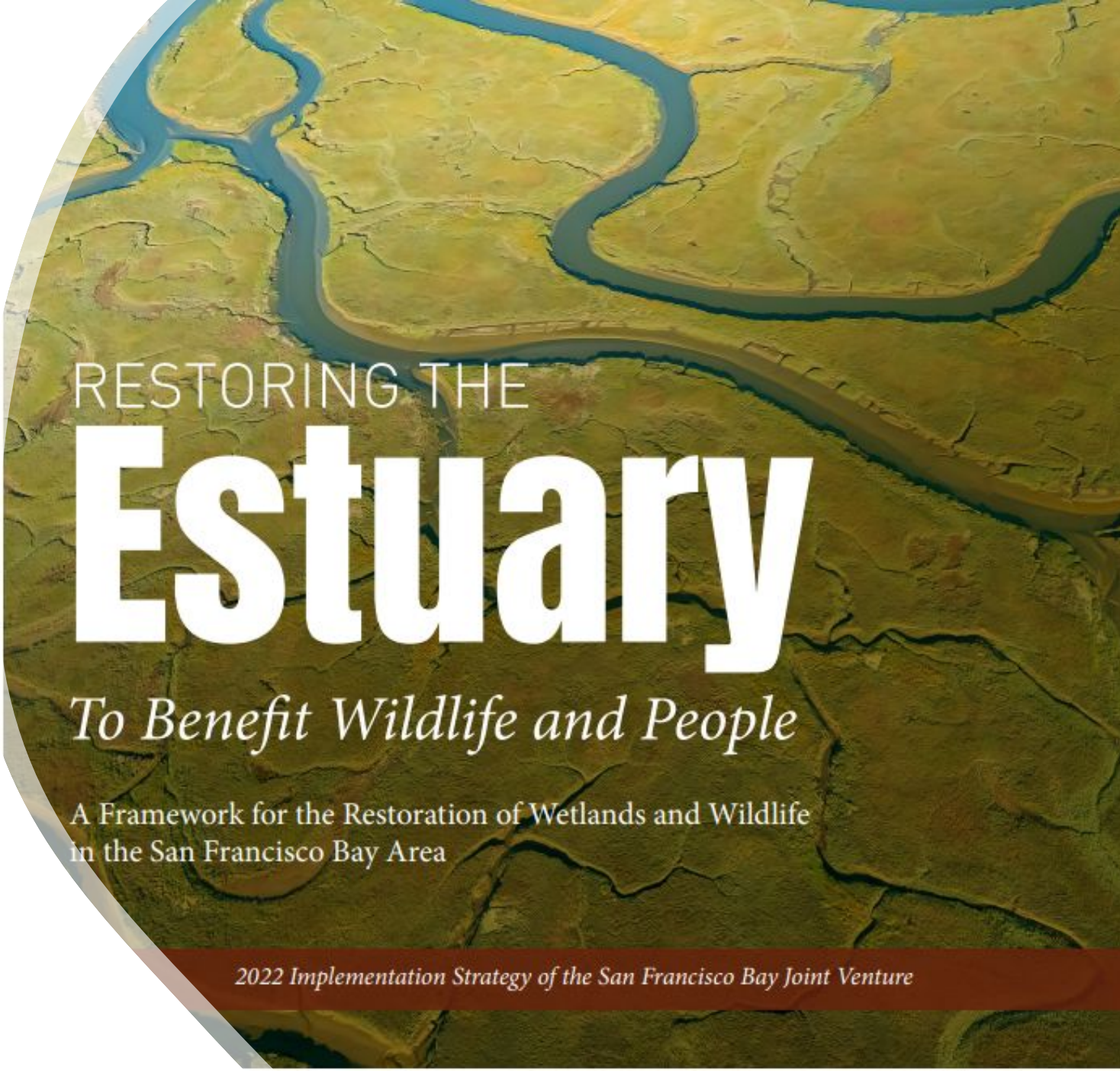
Staff

Sandra Scoggin,
Coordinator

New positions recently filled, announcements coming soon:

Conservation Program Coordinator

Policy and Communications Coordinator



RESTORING THE Estuary

To Benefit Wildlife and People

A Framework for the Restoration of Wetlands and Wildlife in the San Francisco Bay Area

2022 Implementation Strategy of the San Francisco Bay Joint Venture

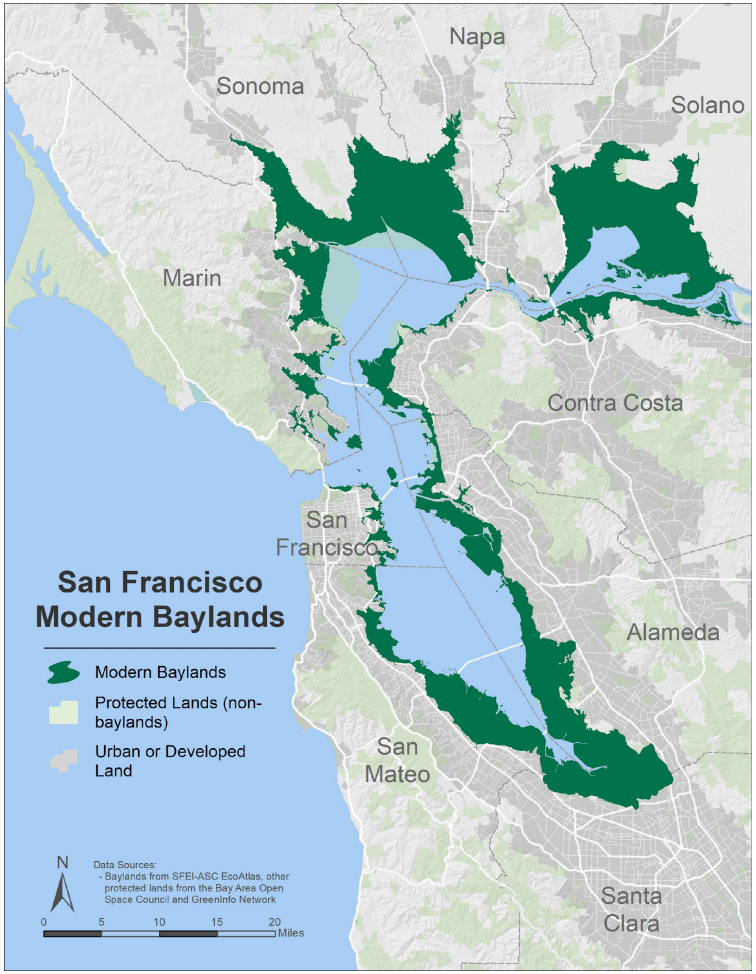
PRIORITY	STRATEGY
Conservation	Protect, enhance, restore and adaptively manage habitats.
Scientific Foundation	Utilize a strong science foundation to inform habitat conservation actions, guide policies, and to help identify funding and research needs.
Communications	Effectively communicate the story of the SFBJV, its partners, and projects to support the mission, goals, and priorities of the SFBJV partnership.
Coordination	Coordinate the implementation of federal, state, and regional conservation plans and projects that have been adopted by the SFBJV or support our mission.
Collaboration	Provide formal and informal regional forums to facilitate collaborative conservation action.
Funding	Increase funding for SFBJV programs, partner programs, and projects that work towards JV goals.
Proactivity	Identify and address emerging issues and barriers to conservation.
Monitoring	Conduct coordinated, regional, and project-specific monitoring to guide decision making, contribute to adaptive management, and improve conservation outcomes.
Climate Change	Ensure that protected and restored habitats are resilient to the impacts of a changing climate.
Equity	Ensure that the work of the SFBJV contributes to a more environmentally just and equitable future for the Bay Area.

Table 1. Habitats for which the SFBJV updated (numeric acreage and/or functional) conservation goals.

Outer Coast	SF Estuary	Watersheds
Beaches and Dunes	Non-tidal Wetlands and Waters (Baylands)	Lakes and Ponds
Cliffs	Tidal Marsh (Baylands)	Seasonal Wetland and Vernal Pool Complexes
Rocky Intertidal	Tidal Flat	Stream Valleys (Alluvial Creeks & Riparian zones)
Coastal Estuaries (Embayment/Bay, Lagoonal Estuary - Large, Lagoonal Estuary - Small)	Beach	Headwater Creeks and Source Areas
Coastal Stream Valleys (Riparian)	Submerged Aquatic Vegetation	
	Shellfish Beds	
	Open Water	
	Estuarine-Upland Transition Zone	
	Adjacent Uplands	

- **Baylands Ecosystem Habitat Goals**
- **Subtidal Habitat Goals Report**
- **Baylands Ecosystem Habitat Goals Science Update**
- **Conservation Lands Network 2.0**

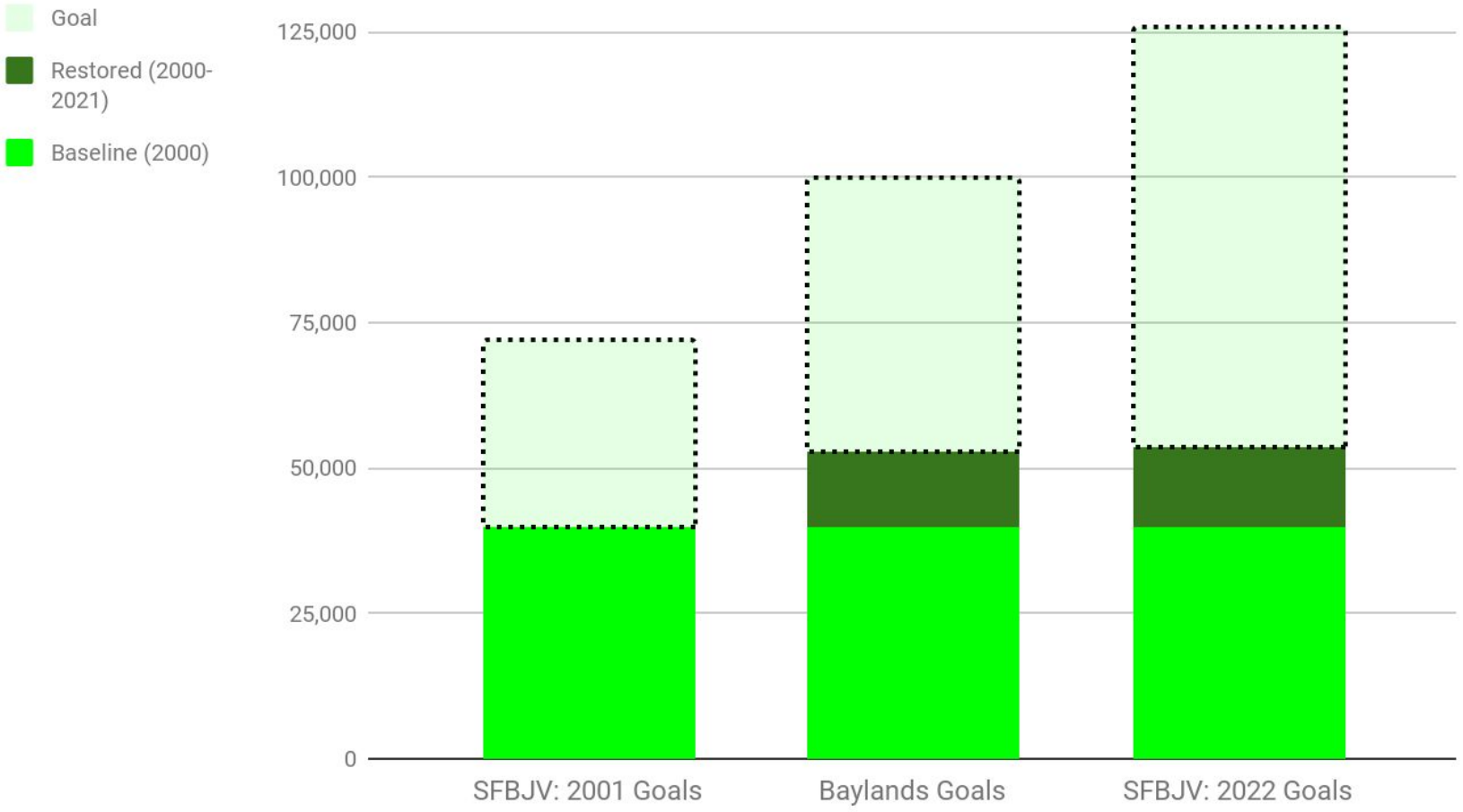
The revised SFBJV **baylands goals** reflect a thorough, spatially explicit analysis of parcel-level data, looking at all undeveloped baylands as opportunities for conservation.



Acreage and functional habitat goals for SF Estuary Habitats

SF ESTUARY HABITATS	PROTECT	RESTORE	ENHANCE
Baylands — Non-tidal wetlands & waters	59,000	NA	27,000
Baylands — Tidal marsh		72,000	11,000
Tidal flat	12,000	4,000	6,000
Beach	36 miles	Beaches that are functionally stable under present and future conditions	
Submerged aquatic vegetation	8,000	8,000	
Shellfish beds	protect all existing native oyster beds	8,000	
Estuarine-upland transition zone	16,500	15,100	2,500
Adjacent Uplands	14,000	NA	NA

SF Estuary Tidal Marsh Restoration Goals



Bay Unit	Not Protected	Protected	Total
Central Bay	1,281	760	2,042
North Bay	4,620	1,969	6,589
South Bay	2,811	2,709	5,520
Suisun Bay	5,306	924	6,230
Total (All Bays)	**14,019**	**6,364**	**20,383**

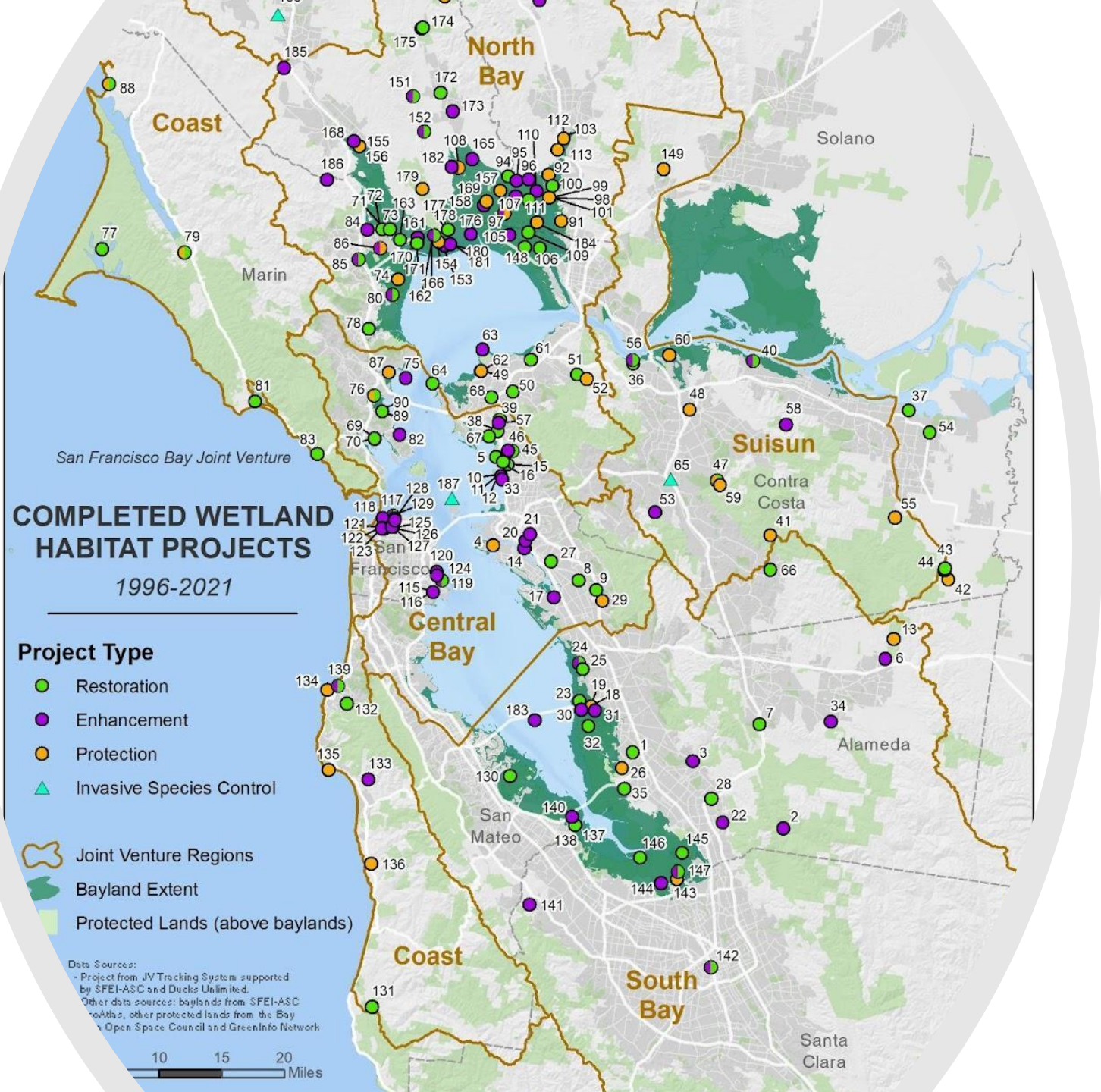
Adjacent Uplands ('Marsh Migration space') Acreage Goals by Bay Unit

Habitat acreage goals for Watersheds Habitats

WATERSHEDS HABITATS	Habitat Goals for Watershed Habitats (in acres)		
	Protect	**Restore**	**Enhance**
Lakes and ponds	4,500	1,000	6,000
Seasonal wetlands and vernal Pool complexes	5,000	2,500	3,500
Alluvial stream valleys	200,000	50,000	200,000
Headwater creeks and source areas	270,000	50,000	100,000
TOTAL	479,500	103,500	309,500

Functional goals for Outer Coast habitats

OUTER COAST HABITATS	Functional Goals
Beaches and dunes	Functional stability and ecological integrity under present and future conditions
Cliffs	Natural erosional processes not influenced by armoring or other built infrastructure and with native plant species and nesting birds.
Rocky intertidal	Natural erosional processes not influenced by armoring or other built infrastructure and the presence of a wide variety of native invertebrates, fish, pinnipeds, shorebirds, alcids, and other aquatic birds.
Outer coast estuaries (bay/embayment, lagoon)	Optimize physical and biological function and processes of outer coast estuaries under present and future conditions.
Coastal stream valleys (riparian)	Wide, variable-width stream corridors and stream networks with natural fluvial processes and ecological functions that lead to healthy streams and riparian biodiversity.

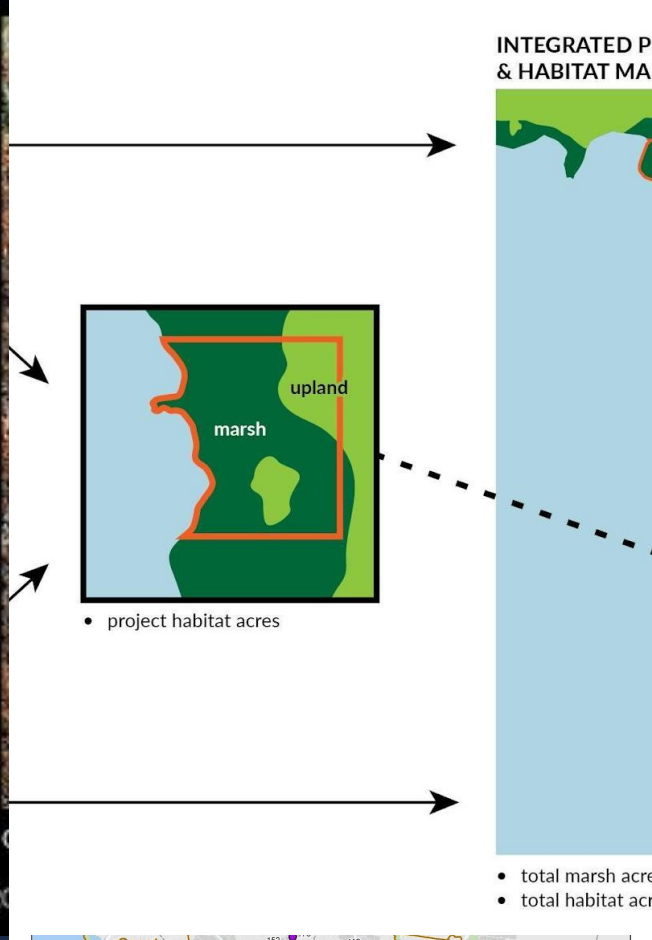

San Francisco Bay Joint Venture
COMPLETED WETLAND HABITAT PROJECTS
1996-2021
Project Type
Restoration
Enhancement
Protection
Invasive Species Control
Joint Venture Regions
Bayland Extent
Protected Lands (above baylands)
Data Sources:
- Project from JV Tracking System supported by SFEI-ASC and Ducks Unlimited.
Other data sources: baylands from SFEI-ASC
oAtlas, other protected lands from the Bay
Open Space Council and GreenInfo Network
10
15
20
Miles
North Bay
Coast
Marin
Solano
Suisun
Contra Costa
San Francisco
Central Bay
Alameda
San Mateo
Coast
South Bay
Santa Clara

SFBJV waterfowl population goals based on Long-Term Average and 80th percentile long-term distribution population sizes for breeding waterfowl in North America from Fleming et al. (2019).

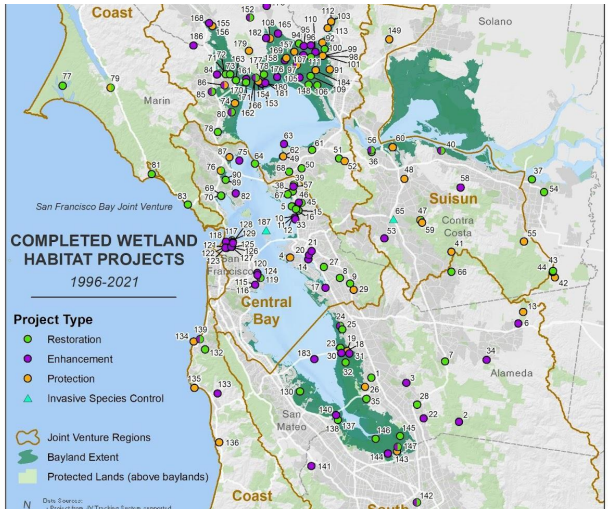
Species	Population Goals	Aspirational Goals
Dabbling Ducks		
Mallard	25,532	30,723
Northern Pintail	26,738	38,220
Northern Shoveler	15,062	21,512
Diving Ducks		
Canvasback	15,014	17,856
Ruddy Duck	16,580	16,580
Scaup (Greater and Lesser)	90,295	107,506
Surf Scoter	6,615	6,615

Estuary Habitat Type	Indicator	Metrics
Non-tidal wetlands and waters	Ducks (dabbling, diving)	Mid-winter abundance
	Breeding waterbirds	Abundance or nest success
Estuarine-upland transition zone (UTZ)	UTZ focal bird spp	Area search abundance
Tidal marsh	Tidal marsh birds	Point count abundance
	Salt marsh harvest mouse	Capture Efficiency
Tidal flat	Wintering shorebirds	SF Estuary Shorebird Survey abundance
Beach	Resident marine mammals	Abundance
	Shorebirds	SF Estuary Shorebird Survey abundance
Subtidal: submerged aquatic vegetation	Diving ducks	Mid-winter abundance
Subtidal: shellfish beds	Black Oystercatcher	SF Estuary Shorebird Survey abundance

List of high priority wildlife indicators of habitat quality for SFBJV Estuary habitats.



Measuring Progress



Four Operational Focus Areas for the Next Two Years

Adaptation and Resilience Planning

Actively engage in adaptation and resilience efforts across sectors and municipalities to ensure habitat and wildlife needs are front and center.

Green Tape

Influence and advance regulatory efficiency at the state and regional levels to increase the pace of restoration project implementation.

Sediment

Address key issues and provide support for efforts that are working to increase beneficial use of sediments at restoration project sites.

Funding

Actively engage with and influence efforts to direct unprecedented levels of state and federal funding to advance Joint Venture goals.

Operations and Administration

Sustain Joint Venture operations and administration activities that ensure our ability to serve our mission, support the partnership, and advance work in the Focus Areas.

Thank you!

www.sfbayjv.org