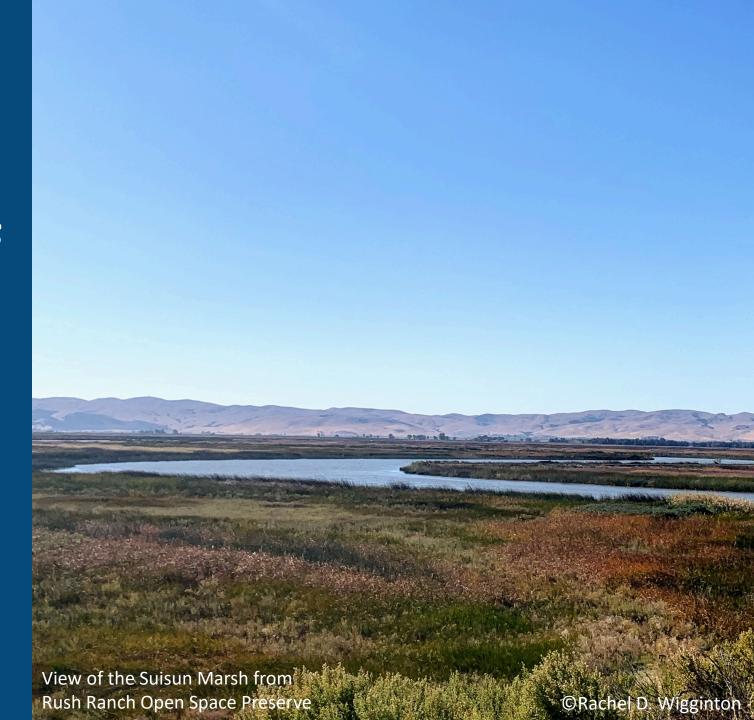
BCDC SUISUN MARSH POLICY REVIEW KICK OFF

Thursday February 13, 2020





pcgc

HOUSEKEEPING

- Sign-in sheet and nametags
- Meeting materials
- Bathrooms
- Water fountain
- Drinks and snacks



View of the tidal channel with common reed in the foreground



MEETING AGREEMENTS

- 1. Everyone's input is equally valued
- 2. Respect differences, and appreciate other points of view
- 3. Ask genuine questions
- 4. Stay engaged
- 5. Everyone contributes to our success
- 6. Expect and accept that this work is ongoing



AGENDA

- 2:35 2:50 Introductions
- 2:50 3:10 Presentation: Background Information
- 3:10 3:15 Break
- **3:15 3:25** Presentation: What has changed?
- 3:25 4:25 Discussion: How do we continue to preserve and protect a functional marsh?
- **4:25 4:30** Next Steps







Aerial view of Suisun Marsh showing the uplands, the marshlands, and nearby urban development

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INTRODUCTIONS

What is your name?

What is your affiliation?

For you, personally, what is the most valuable thing about the Suisun Marsh?



SUISUN MARSH HISTORY: PRE-MARSH ACT

Steve Chappell

Executive Director

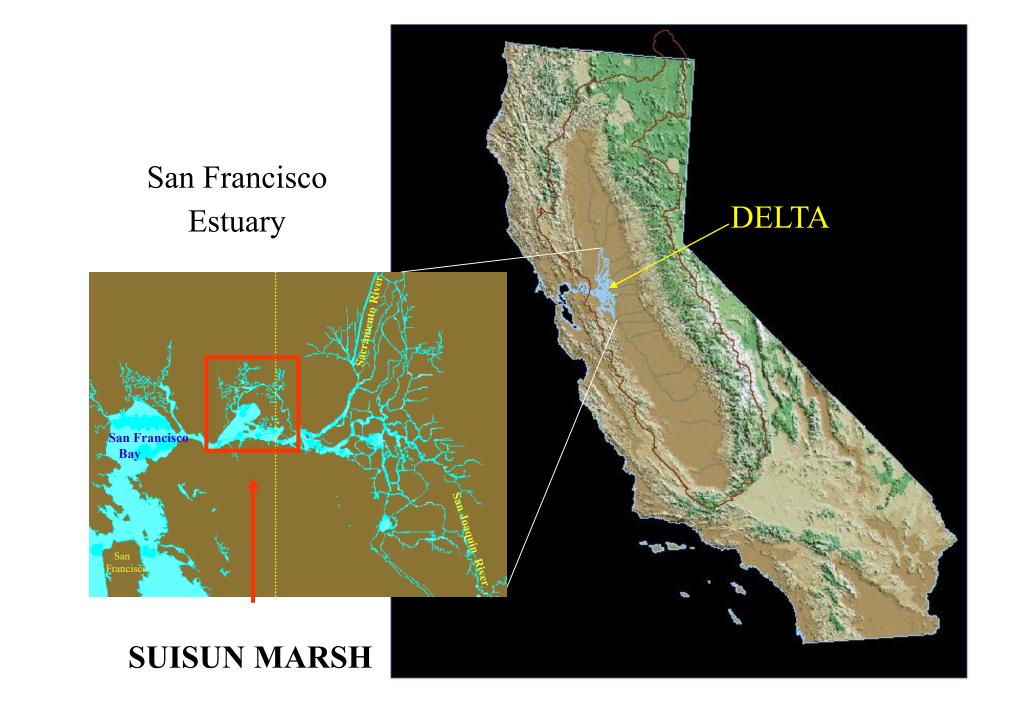
Suisun Resource Conservation District

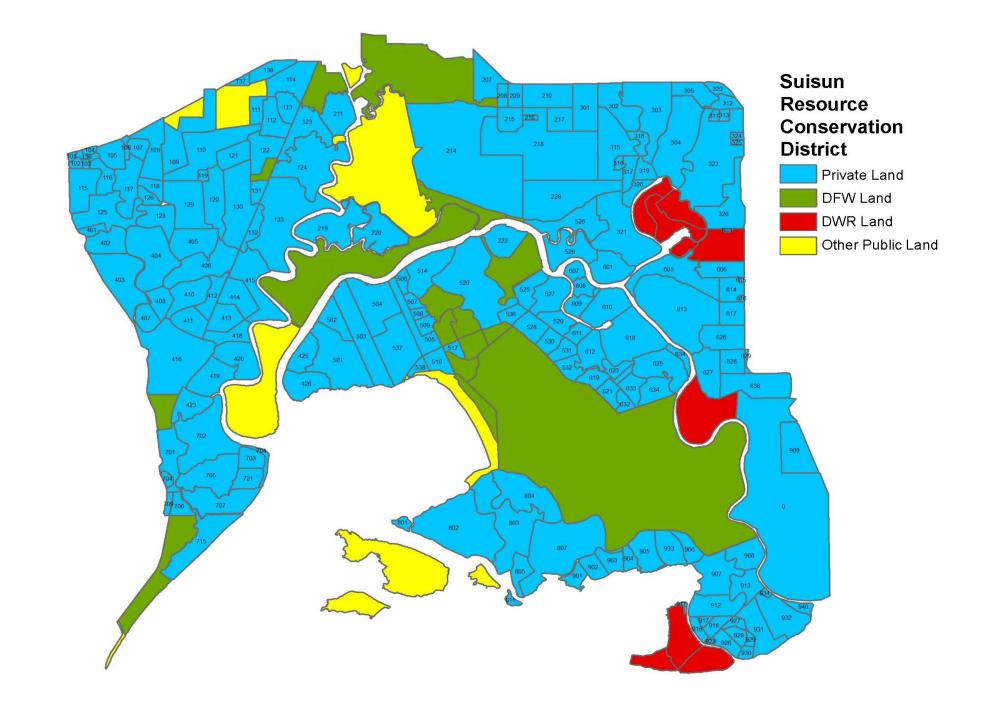


SUISUN MARSH HISTORY



Presented by Steven Chappell, Executive Director, Suisun RCD





Suisun Marsh Facts

- Largest contiguous brackish marsh in the United States
- Encompasses 10% of California's remaining natural wetlands

* Acreage Breakdown

- 52,000 acres managed wetlands
- 6,300 acres tidal wetlands
- 30,000 acres of bays and sloughs
- 27,000 acres of upland grasslands

The Suisun Marsh is a Brackish Marsh

Not Fresh Water Wetlands

A salinity gradient exists north to south and east to west in the Suisun Marsh

EARLY HISTORY - 1880'S TO 1960'S

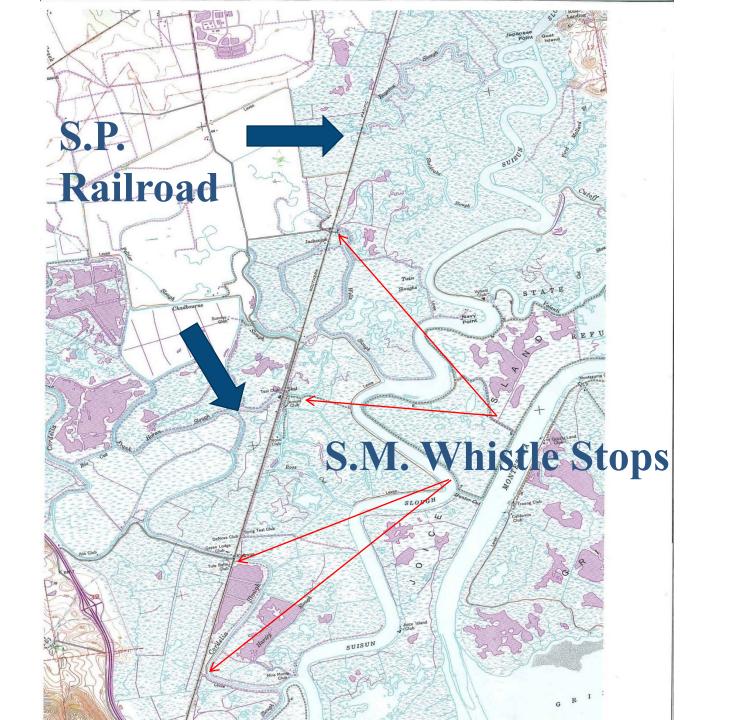


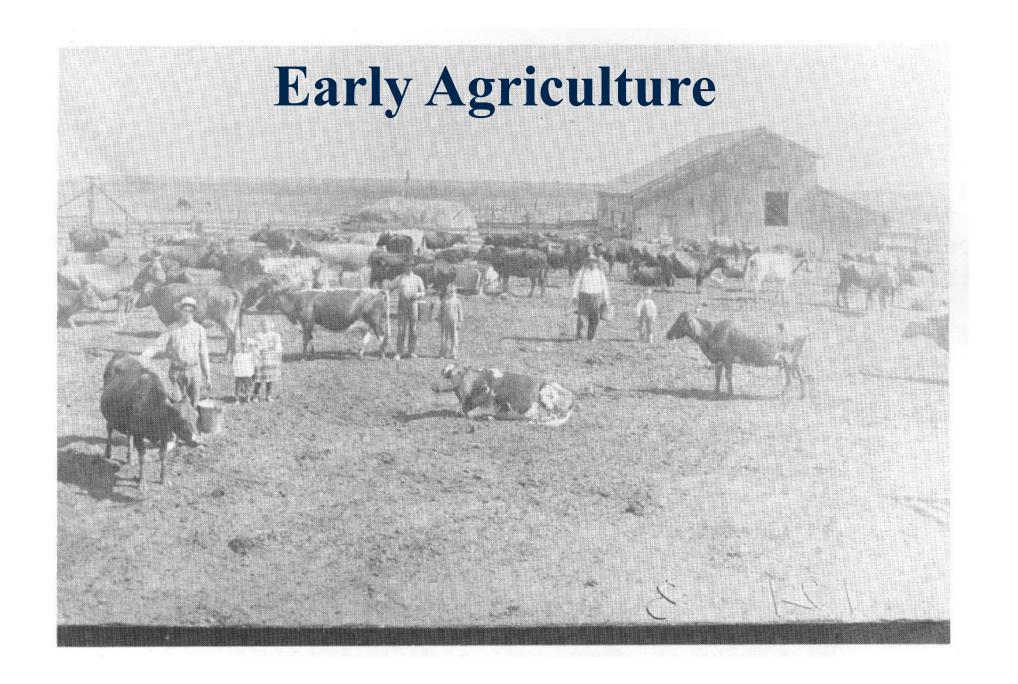
- 1878's Construction of the Southern Pacific RR Initiated
- 1881 Establishment of the first organized waterfowl hunting club in the western Suisun Marsh
- 1890's Diking of the eastern region of the Marsh for Agriculture, dairies, beef production
- DFW purchases Joice Island (1st State Wildlife Area) to reduce waterfowl crop depredation in the Central Valley
- 1940-50 Development of the Central Valley Water Projects
- 1950 Decline of Suisun Marsh Agriculture
- 1960's Most of the diked areas are managed as seasonal wetlands for wintering waterfowl

S.P. RAILROAD = EASY ACCESS TO WATERFOWL HUNTING GROUNDS













LATE 60'S, 70'S & 80'S



- 1963 Suisun Soil Conservation District formed by landowners
- 1970 Suisun Resource Conservation District formed from SSCD
- 1974 Suisun Marsh Preservation Act passed by the Legislature
- 1976 Suisun Marsh Protection Plan completed by DFG and BCDC
- 1976 BCDC's Suisun Marsh Protection Plan Adopted
- 1977 AB 1717 Suisun Marsh Preservation Act
- 1978 Water Rights Decision 1485
- 1984 DWR Plan of Protection EIR
- 1987 Suisun Marsh Preservation Agreement Signed

ASSEMBLY BILL NO. 1717 THE 1977 SUISUN MARSH PRESERVATION ACT

"The Legislature hereby finds and declares that the Suisun Marsh, represents a unique and irreplaceable resource to the people of the state and nation; and that it is the policy of the state to preserve and protect resources of this nature for the enjoyment of current and future generations."

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

PLAN OF PROTECTION FOR THE SUISUN MARSH including ENVIRONMENTAL IMPACT REPORT



Central District February 1984

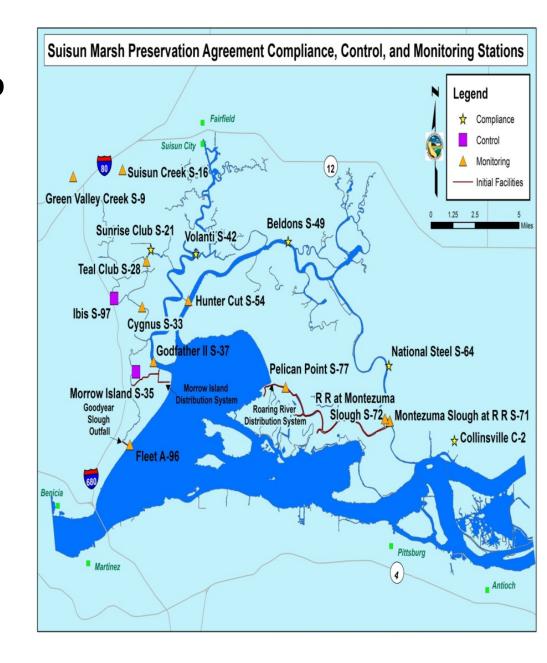
1978 SUISUN MARSH SALINITY STANDARDS ESTABLISHED

- All Water Year Types
- Except During Deficiency Period

- 19.0 October
- 16.5 November
- December 15.5
- 12.5 January
- February March 8.0
- April May 11.0

Deficiency Period (As defined in the SMPA Agreement)

- October 19.0
- November 16.5
- December March 15.6
- April 14.0
- May 12.5





PRIMER OF BCDC'S LAW AND POLICIES IN THE SUISUN MARSH



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WHO ARE WE?

Bay Conservation and Development Commission (BCDC)

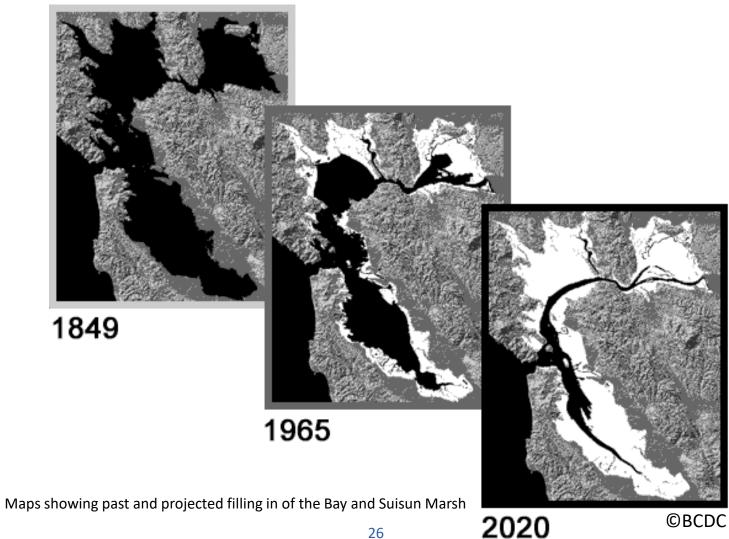
A state agency with regulatory and planning duties. We work regionally across the San Francisco Bay and the Suisun Marsh



Map showing the extent of BCDC's jurisdiction

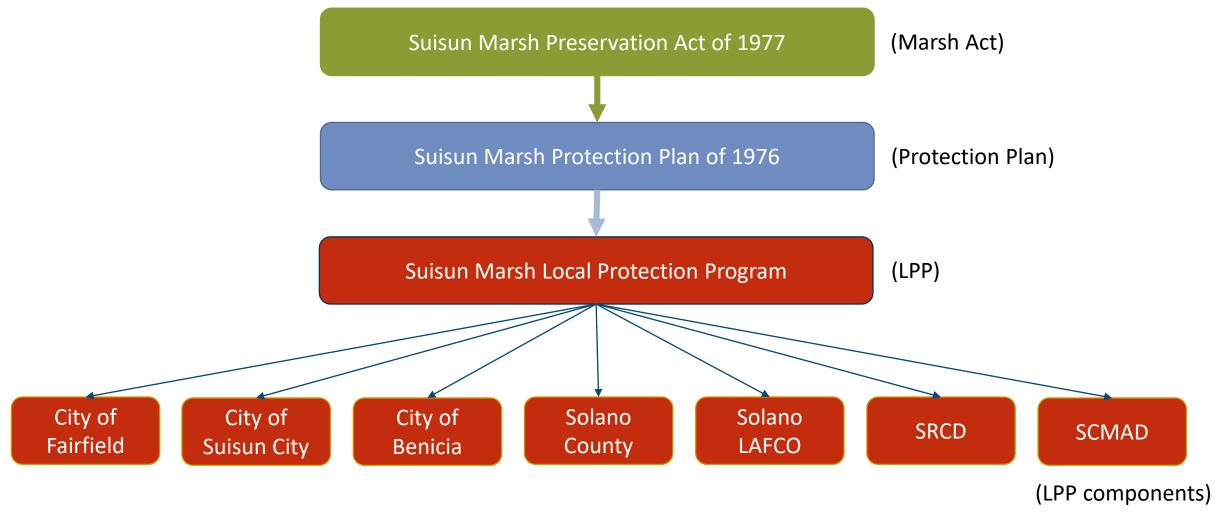
BCDC WAS CREATED IN RESPONSE TO THREATS TO THE BAY







BCDC'S SUISUN MARSH LAW AND POLICIES





MARSH ACT OVERVIEW

Composed of 7 chapters:

- I. General Provisions
- II. Definitions
- III. Responsibilities of the Commission
- IV. Responsibilities of the Other State and Federal Agencies
- V. Responsibilities of the Commission and Local Agencies
- VI. Development Controls
- VII. Judicial Review, Enforcement, and Penalties



Hunters in a bird blind in Suisun Marsh



MARSH ACT GENERAL PROVISIONS

Legislative Findings and Declarations (§29002)

- The marsh "...plays an important role in providing wintering habitat for waterfowl of the Pacific Flyway; that during years of drought the area becomes particularly important..."
- The marsh "...provides critical habitat for other wildlife forms, including such endangered, rare, or unique species..."
- "...that the existence of this wide variety of wildlife is due to the relatively large expanse of unbroken native habitat and the diversity of vegetation and aquatic conditions that prevail in the marsh..."
- "...that man is an integral part of the present marsh ecosystem and..."
- "...represents a unique and irreplaceable resource to the people of the state and nation..."
- "...future residential, commercial, and industrial developments could adversely affect the wildlife value..."
- "...it is the policy of the state to preserve and protect resources of this nature for the enjoyment of the current and succeeding generations."

Note: bullets and emphasis added



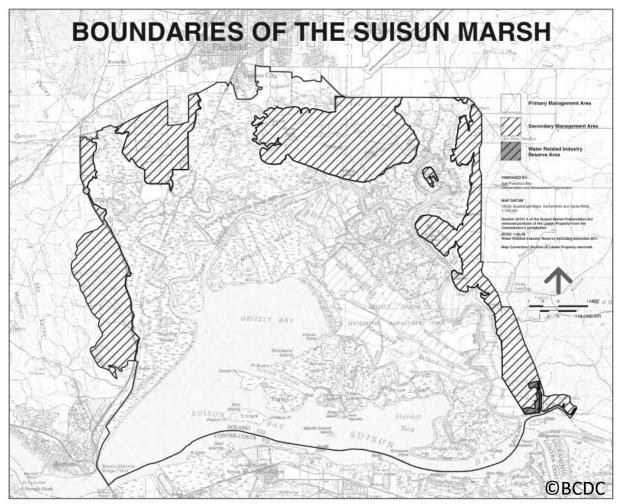
MARSH ACT DEFINITIONS

Primary Management Area

"water-covered areas, tidal marsh, diked off-wetlands, seasonal marsh, and lowland grassland..."

Secondary Management Area

"upland grasslands, cultivated lands, and low-lying areas adjacent to the primary management area"



Map showing the boundaries of the Primary and Secondary Management Areas



WHO ISSUES MARSH DEVELOPMENT PERMITS?

- In the Primary Management Area
 - BCDC
- In the Secondary Management Area (with a certified Local Protection Program component)
 - Solano County
 - Fairfield
 - Suisun City
 - Benicia



Construction during a tidal wetland restoration at Rush Ranch Open Space Preserve



SUISUN MARSH PROTECTION PLAN OF 1976

"The objectives of the Protection Plan are to preserve and enhance the quality and diversity of the Suisun Marsh aquatic and wildlife habitats and to assure retention of upland areas adjacent to the Marsh in uses compatible with its protection."







Composed of Four Parts:

- I. Introduction
- II. Findings and Policies
- III. Carrying out the Protection Plan
- IV. Plan Maps



PROTECTION PLAN FINDINGS AND POLICIES



- 1. Environment
- 2. Water Supply and Quality
- 3. Natural Gas Resources
- 4. Utilities, Facilities, and Transportation
- 5. Recreation and Access
- 6. Water-Related Industry
- 7. Land Use and Marsh Management



A westbound Capitol Corridor train rolls through the marsh at Bahia, CA

QUESTIONS?



BREAK



SUISUN MARSH HISTORY: THE LAST 40 YEARS AND THE FUTURE







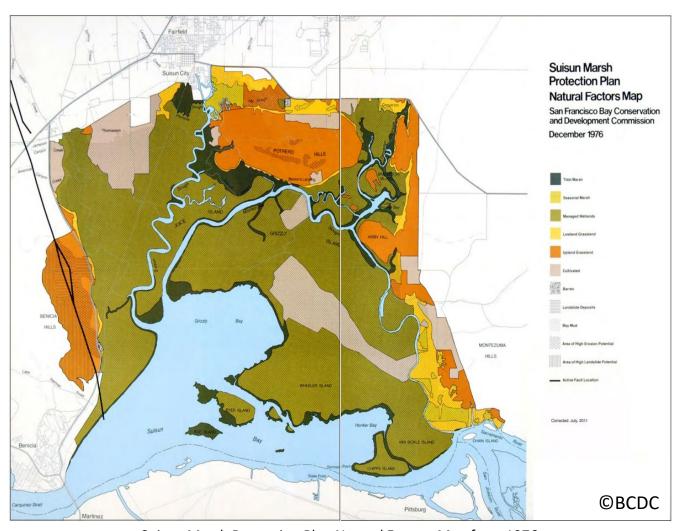


Aerial view of Suisun Marsh showing the upland, the tidal channels, and flooded managed wetlands

Acgc

ECOLOGY

- 200 + plant species
- 180 + bird species
- 45 mammal species
- 15 reptile and amphibian species
- 60 species of butterflies
- 50 + species of fish



Suisun Marsh Protection Plan Natural Factors Map from 1976







Extensive white-top invasion in the tidal marsh at Rush Ranch Open Space Preserve

- Sediment supply from the Delta has decreased
- Water diversions and management plans have changed multiple times
- Extreme drought and extreme rain events are becoming more frequent
- Invasive species pressures continue to be a primary management concern



PUBLIC ACCESS AND RECREATION



Angler holding a striped bass

Hunter and dog with retrieved duck



PUBLIC ACCESS AND RECREATION CHANGES

- Expansion of open space areas and general public access to the marsh
- Waterfowl hunting traditions still strong in Suisun Marsh
- Abundances of some key species have declined, and marsh management practices have changed as a result
- Large decline in native fish populations during the 1980s
- Non-native fish populations have been variable and are predicted to decline



A member of the public hiking and taking nature photos in the Suisun Marsh



BUILT ENVIRONMENT





A rendering the future Pacific Flyway Center in Fairfield

View of Grizzly Island Road



BUILT ENVIRONMENT CHANGES

- Technological advancements put new pressures on the marsh
- Levees are aging and under increasing pressure
- Aging and changing managed wetland infrastructure
- Water-related industrial development
- Salinity control and water diversions



View of the salinity control gates in Suisun Marsh

REGULATORY ENVIRONMENT







US Army Corps of Engineers ®









DELTA STEWARDSHIP COUNCIL





















REGULATORY CHANGES

- Endangered species considerations have shifted as new species are listed
- Suisun Marsh Local Protection Program is established
- Sacramento-San Joaquin Delta Reform Act created the Delta Stewardship Council and Delta Plan
- Suisun Marsh Habitat Management, Preservation, and Restoration Plan was created
- Tidal wetland restorations targets have been established
- Recent changes to federal practices around the designation of Waters of the US



Endangered Salt Marsh Harvest Mouse



EMERGING ISSUES

- Climate change
- Sea level rise
- Environmental Justice
- Enforcement of existing law and policy
- Cultural resources of the marsh



Wind turbines near the Western Railway Museum



How do we continue to preserve and protect a functional marsh?



SMALL GROUP CONVERSATIONS

- You will have a series of 4
 conversations to help answer our
 strategic question around 3 topic
 areas + anything we have missed!
- Each conversation will last ~15 minutes
- Table hosts will summarize the conversations of the previous groups so each group can build upon the insights of the previous group





How do we continue to preserve and protect a functional marsh?







WHAT COMES NEXT?





PROTECTION PLAN REVIEW PROCESS

- Synthesize the outcomes of this workshop
- Scope and create work plan for BCDC staff
- Communicate work plan and policy review approach to stakeholders
- Continue to solicit your feedback

Next stakeholder workshop – Fall 2020!

QUESTIONS?



THANK YOU!

rachel.wigginton@bcdc.ca.gov

https://www.bcdc.ca.gov/plans/ Suisun-Marsh-Policy-Review.html