

Bank Swallow Conservation Strategy

Bank Swallow
Technical Advisory Committee
(BANS TAC)

Michael Bradbury
CA Dept of Water Resources

Kelley Barker
CA Dept of Fish and Wildlife

Bank Swallow Technical Advisory Committee

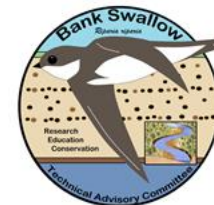
A Bank Swallow Conservation Strategy for the
Sacramento River Watershed

Bank Swallow (Riparia riparia) Conservation Strategy for the Sacramento River Watershed, California



Bank Swallow Technical Advisory Committee

April 2013



2007 – Birth of the BANS TAC

Mile 182 of the Sacramento River - Colony site with as many as 4000 burrows was rocked

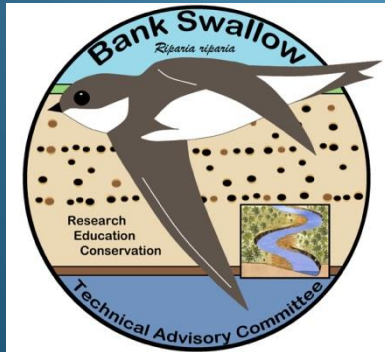
Emphasized the need for immediately available colony locations and other biological information, and sufficient mitigation for projects
Ultimately led to the need for better protections for the Bank Swallow, the need for an education/research/conservation group, and the need for a Conservation Strategy



Collaborative Approach

BANS TAC:
More than 50 Agency
and NGO participants

Conservation Strategy:
2 Editors
10 Authors
17 Material Contributors



Bank Swallow Technical Advisory Committee

A Bank Swallow Conservation Strategy for the
Sacramento River Watershed

CONTRIBUTORS

Editors:

Beverley Anderson-Abbs, California
Department of Water Resources

Michael Bradbury, California Department of
Water Resources

Authors:

Kelley Barker, California Department of Fish
and Wildlife

Ron Melcer, California Department of Water
Resources

Dawn Garcia, CSU Chico, Biological
Sciences, Altacal Audubon Society

Nathaniel Seavy, PRBO Conservation
Science

Greg Golet, The Nature Conservancy

Joe Silveira, US Fish and Wildlife Service

Adam Henderson, California Department of
Water Resources

Danika Tsao, California Department of
Water Resources

Ryan Martin, California Department of
Water Resources

David Wright, California Department of Fish
and Wildlife

Other Contributors:

Patricia Bratcher, California Department of
Fish and Wildlife

John Merz, Sacramento River Preservation
Trust (Retired)

Koll Buer, California Department of Water
Resources (Retired)

Julie Newman, California Department of
Fish and Wildlife

Dean Burkett, NRCS Cooperative Soil
Survey (Retired)

Bruce Orr, Stillwater Sciences

Gina Ford, California Department of Fish
and Wildlife

Mario Parker, US Army Corps of Engineers

Michael Rogner, River Partners

Natalie Houghton, US Army Corps of
Engineers

Lucas Ross-Merz, Sacramento River
Preservation Trust

Robert Irwin, Sacramento River
Conservation Area Forum

Ron Schlorff, California Department of Fish
and Wildlife (Retired)

Henry Lomeli, California Department of Fish
and Wildlife

Kent Smith, California Department of Fish
and Wildlife

Brian Luke, US Army Corps of Engineers

Kip Young, Department of Water Resource

Conservation Strategy

Executive Summary

Introduction

Glossary of Terms

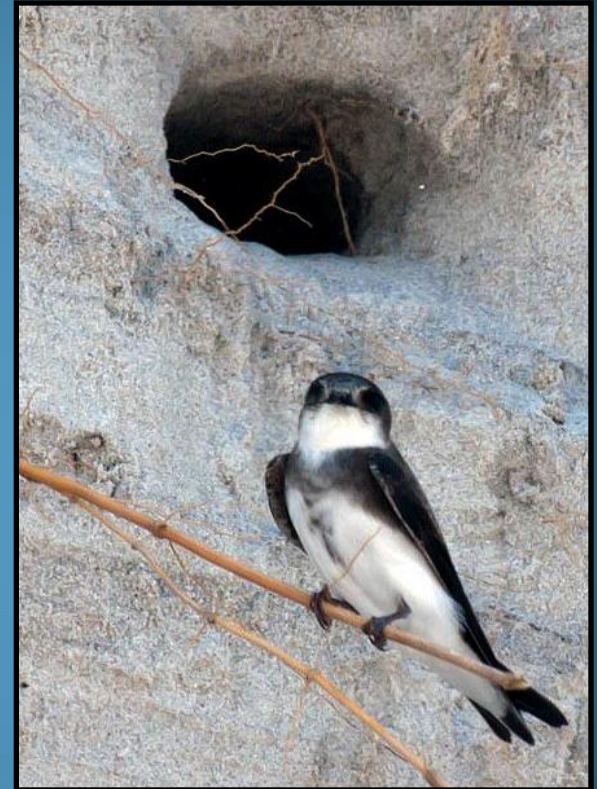
Natural History and Ecology

**Current Status – listed as Threatened in 1989
Recovery Plan finalized in 1992**

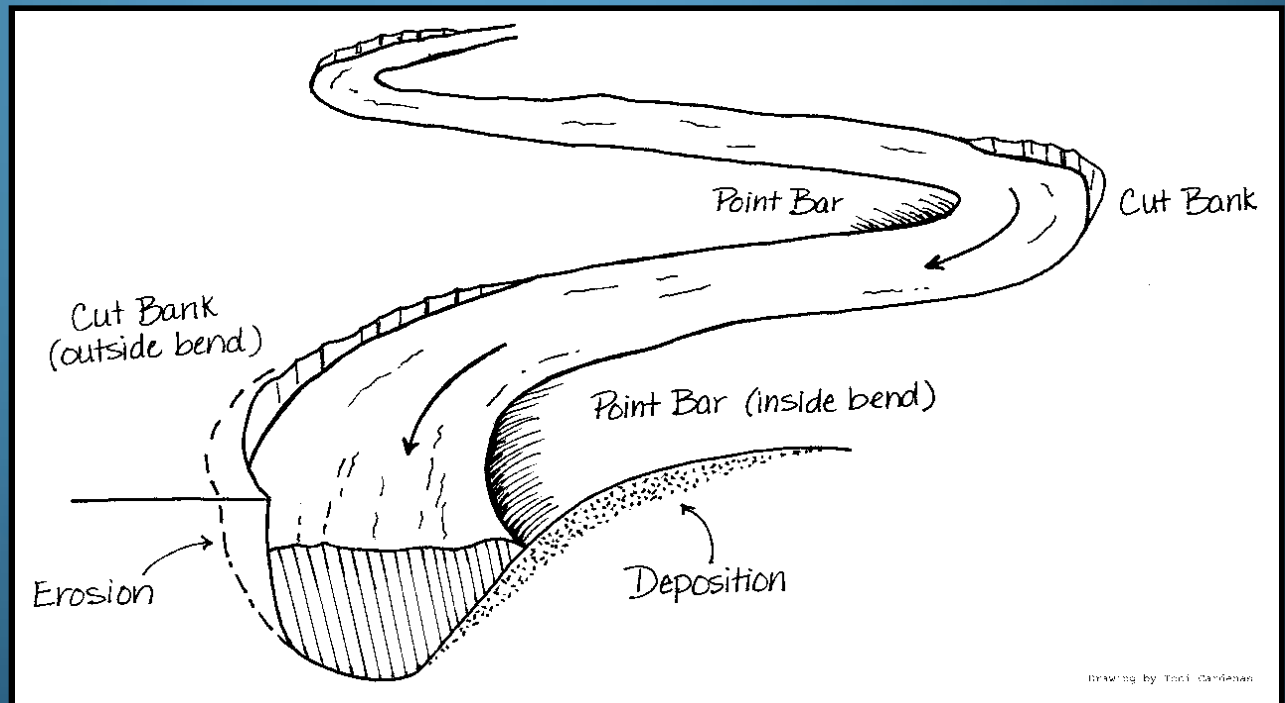
Population Trends Since Listing

Impacts and Threats

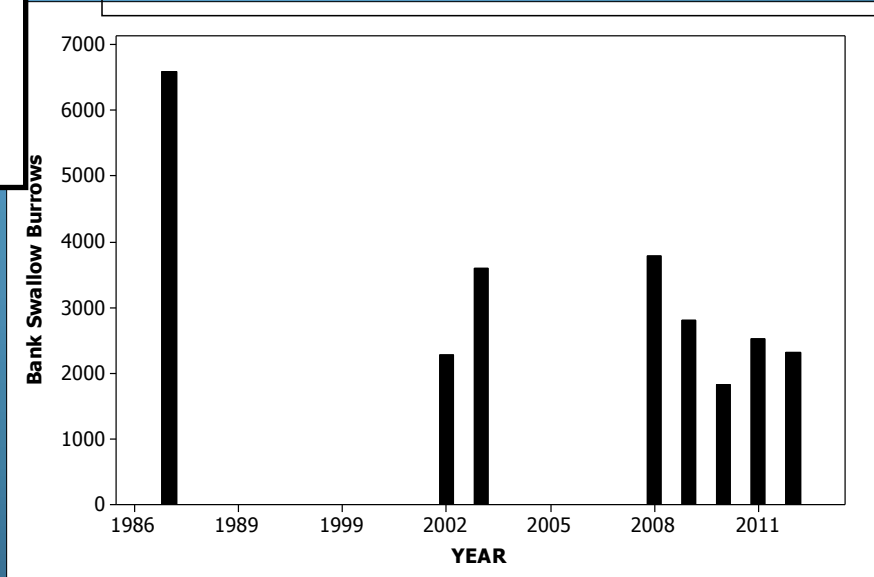
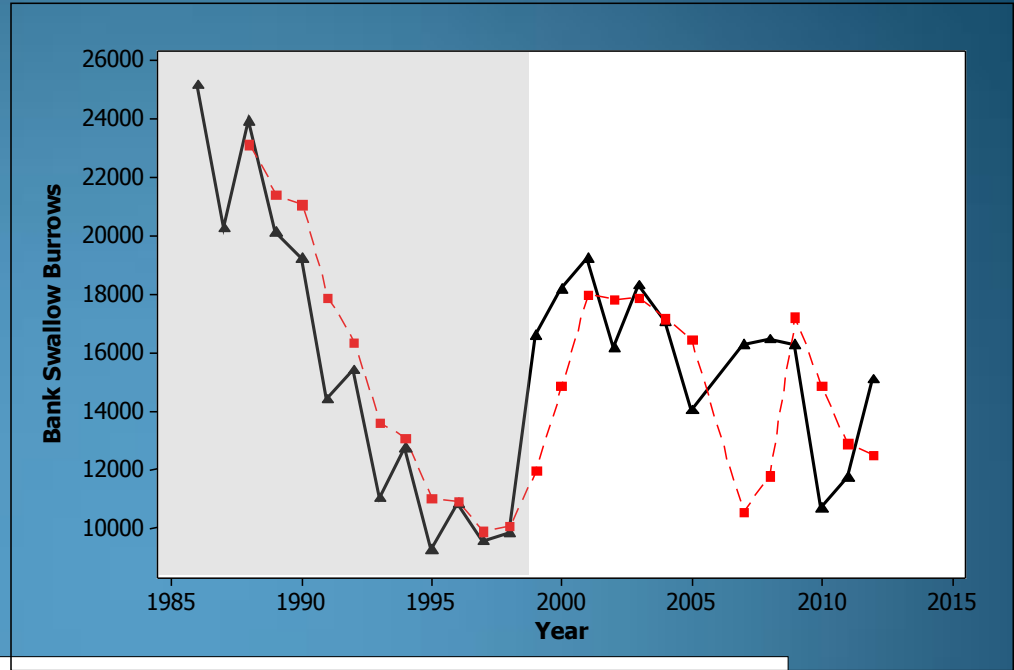
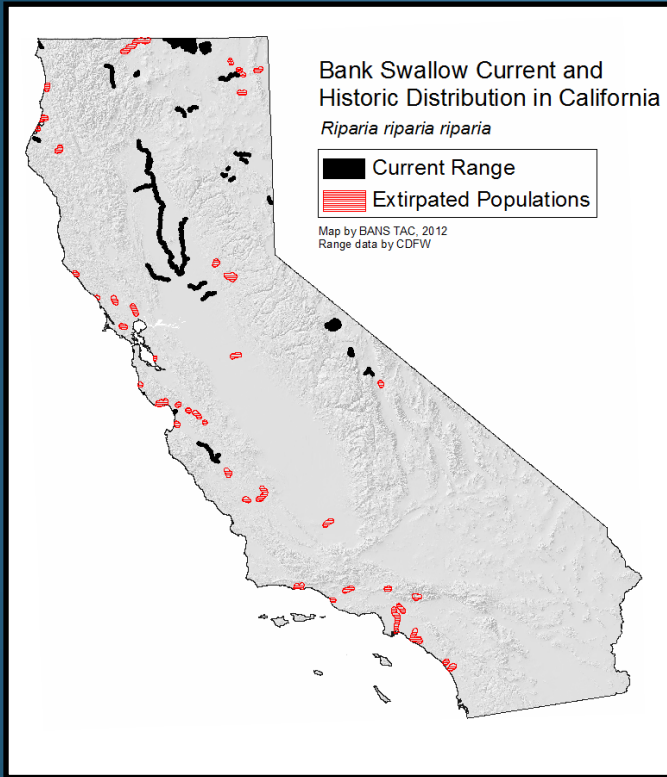
Recommended Conservation Actions



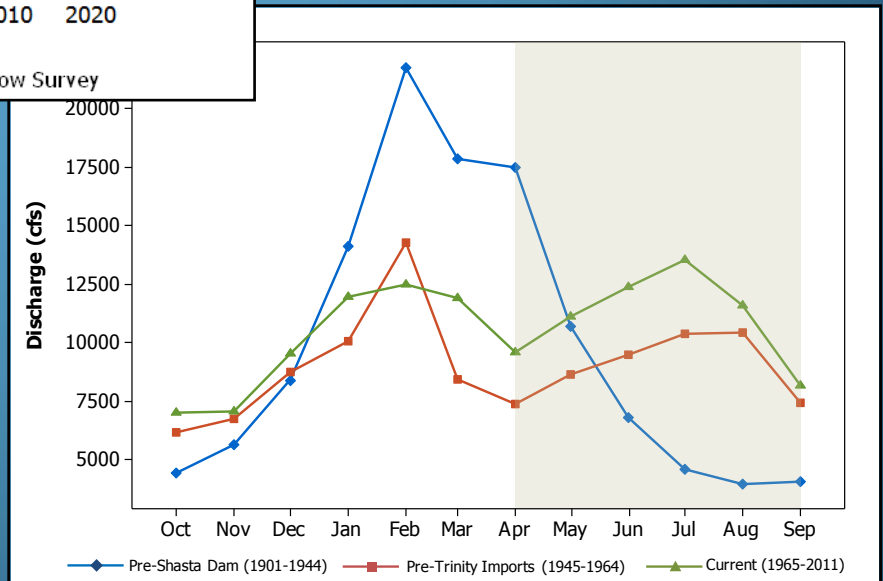
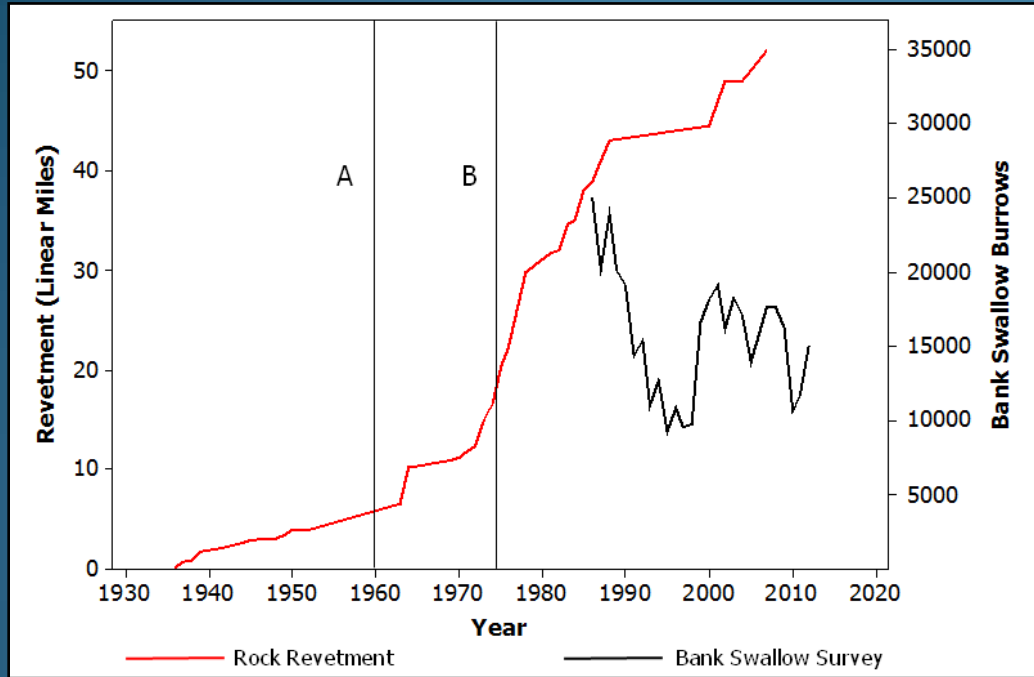
Natural History and Ecology



Population Trends



Impacts and Threats



Recommended Conservation Actions

“Lofty Goals” – Audubon

- **Avoid impacts to nesting habitat and natural river processes**
- **Protect existing habitat, colonies and natural river processes**
- **Restore habitat and dynamic river processes**
 - **Remove 56 miles of revetment from Sacramento and Feather River**
 - **Connect and restore 12,000 acres of flood plain – setback levees**
 - **Manage flows so they aren’t detrimental to the species**
- **Mitigate unavoidable impacts to habitat and natural river processes**
 - **Mitigate at 3:1 for lost suitable nesting habitat (1:1 protection of existing suitable habitat, 2:1 revetment removal)**
 - **Mitigate 2:1 for lost habitat not currently suitable (1:1 protection, 1:1 restoration)**
 - **Mitigate 1:1 for active colonies inundated by detrimental water management**

The role of the California Department of Fish and Wildlife in all this...

The BANS-TAC

Current CDFW protection of BANS through CEQA, CESA, 1600, FGC

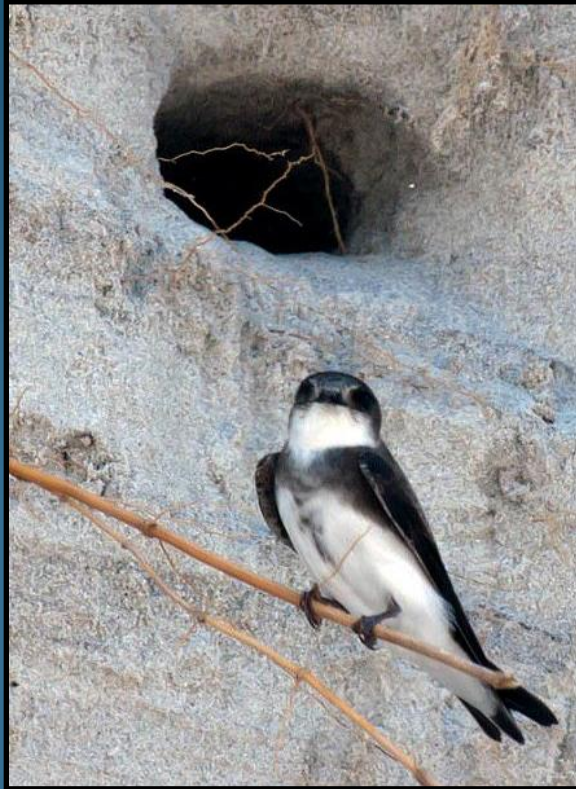
Education within CDFW, other agencies, private landowners, NGOs, other stakeholders



The Importance of an Implementable Conservation Strategy:
Consistency, Efficiency, Conservation, Recovery

The time is NOW.

Central Valley Flood Protection Plan and Conservation Strategy, HCP/NCCPs, Regional Flood Management Planning, and other landscape-level planning efforts.



Watch for the
public version

COMING IN JUNE

www.sacramentoriver.org/bans

