



U.S. Fish and Wildlife Service

Give Us a Chance to Work with You

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Presentation Overview

- Program overview
- On the ground
- Science behind the approach



Partners Program Strategy

Mission is to restore and protect fish and wildlife habitat cooperatively through voluntary partnerships with private landowners

Plan, design and implement restoration projects with private landowners



Partners for Fish and Wildlife Program

- ❑ Private, tribal, municipal lands
- ❑ Assist from project beginning to end
- ❑ Program is voluntary.
- ❑ Landowner goals and Service mission are key to all projects

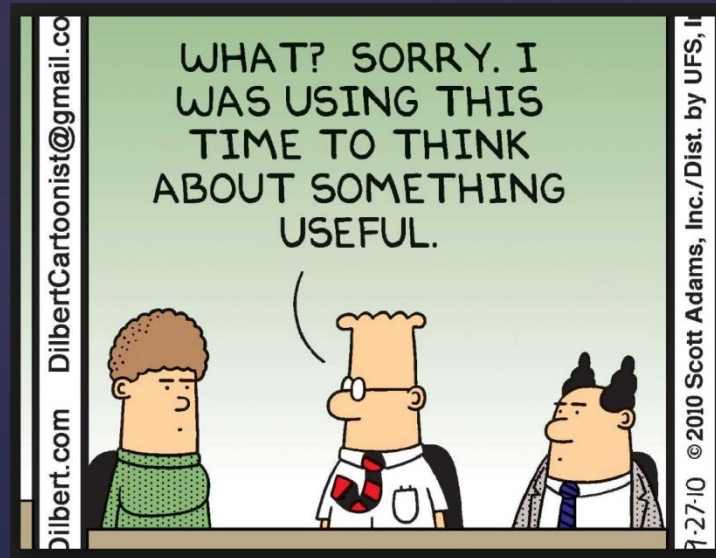


Details of the Partners Program

- ❑ 50% match required
- ❑ Cost share
- ❑ FWS also provides technical assistance
- ❑ 10 year agreement



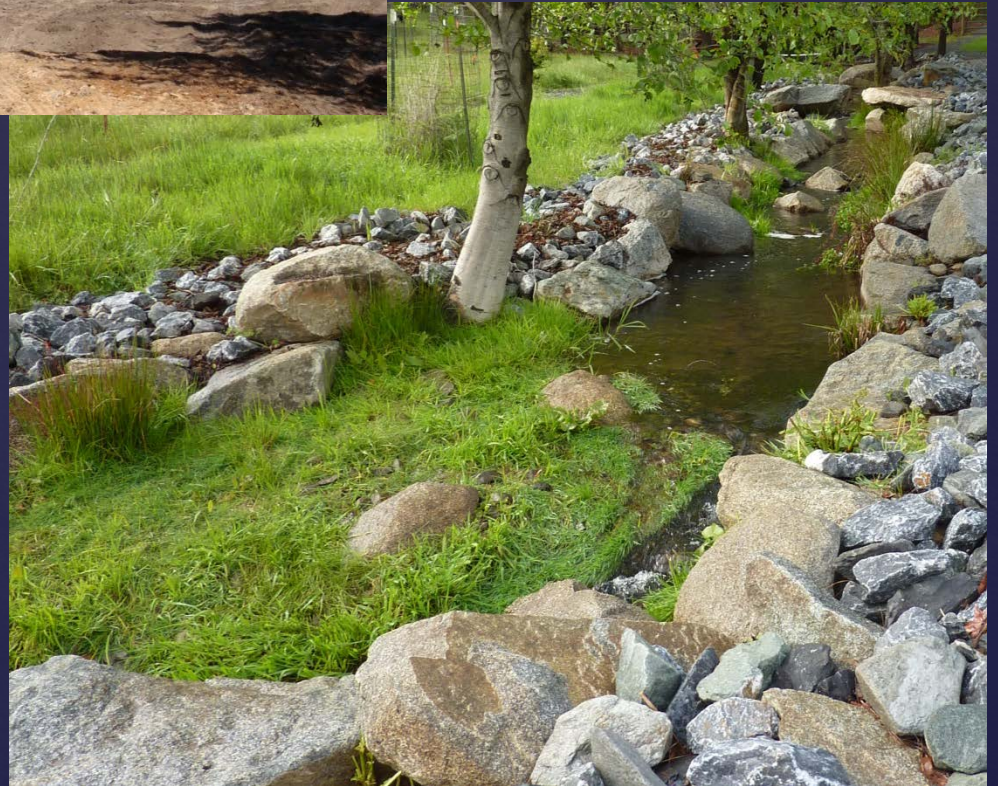
Strategic Planning



Compatible with landowner goals



Do No Harm



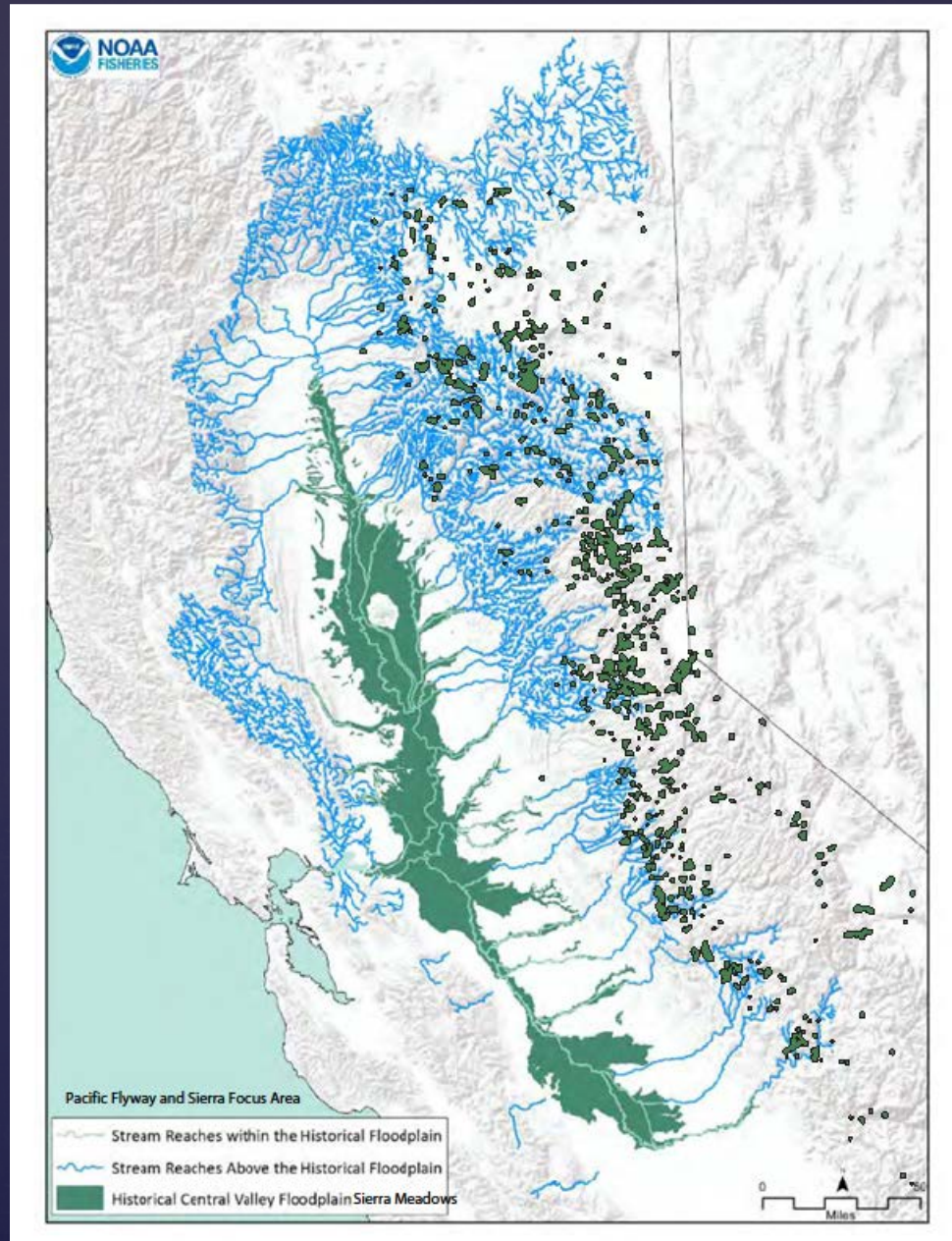
Use Ecological Process



Biggest Bang for the Buck



Right Location?



Process-based Restoration to Help Farmers and Fish- Why California Needs 10,000 More (Ecologically Functional) Dams



Michael M. Pollock NOAA Fisheries-Northwest Fisheries Science Center, Seattle Washington

Brian Cluer NOAA Fisheries Western Regional Office, Santa Rosa, California (Photo by Brian Cluer)

Fish Passage



Sierra Meadows



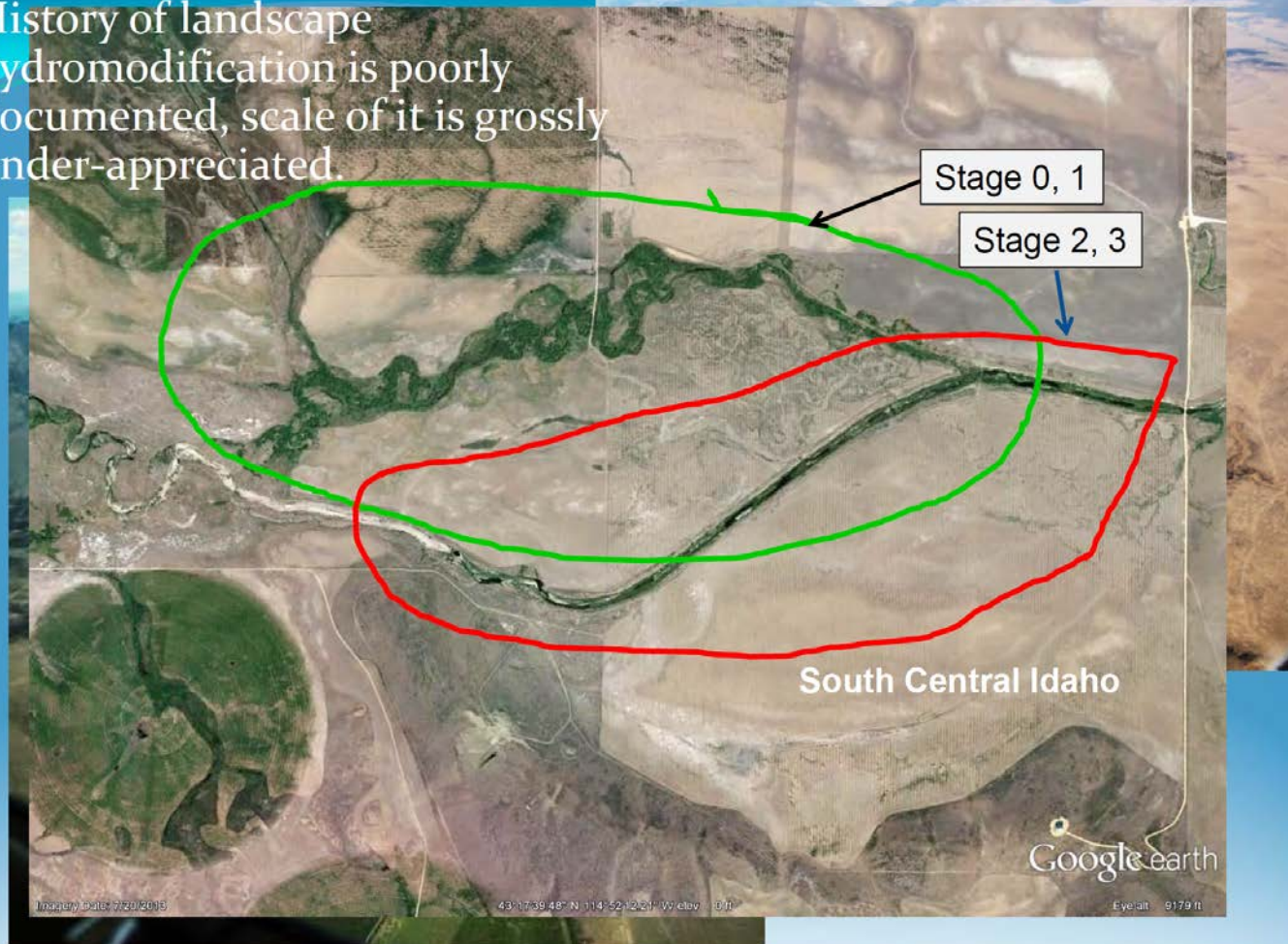
Sierra Meadows



Sierra Foothill Floodplains



History of landscape
hydromodification is poorly
documented, scale of it is grossly
under-appreciated.





showed us
of the
es of



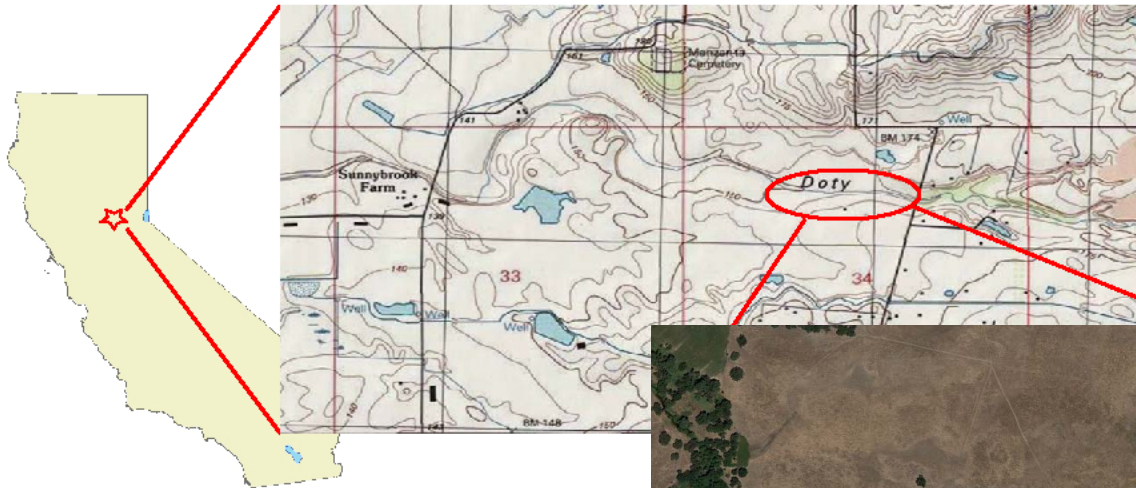
Jeffres et al. 2008

Jeffres et al. 2008

Doty Ravine Floodplain Reconnection

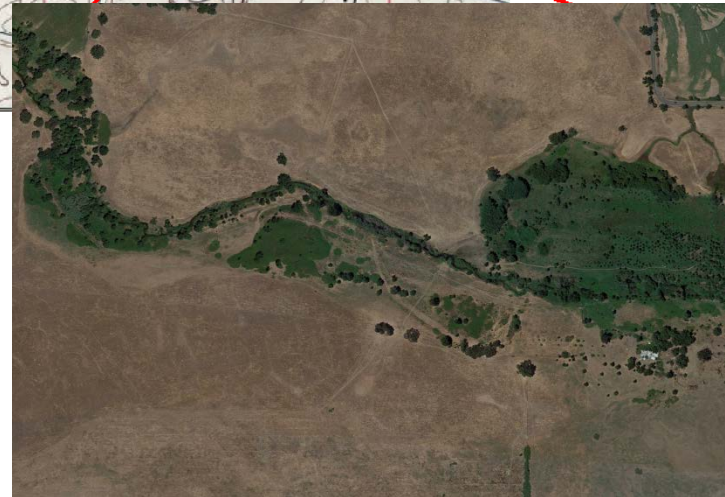
Placer Land Trust Reserve

Placer County, California



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SHEET 1	TITLE SHEET
SHEET 2	PROJECT PURPOSE
SHEET 3	UPPER LONGITUDINAL PROFILE
SHEET 4	LOWER LONGITUDINAL PROFILE
SHEET 5	TYPICAL CROSS SECTION WITH LEVEE BREACH
SHEET 6	TYPICAL CROSS SECTION WITH BEAVER DAM ANALOGUE



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530-242-3322, 530-242-0866

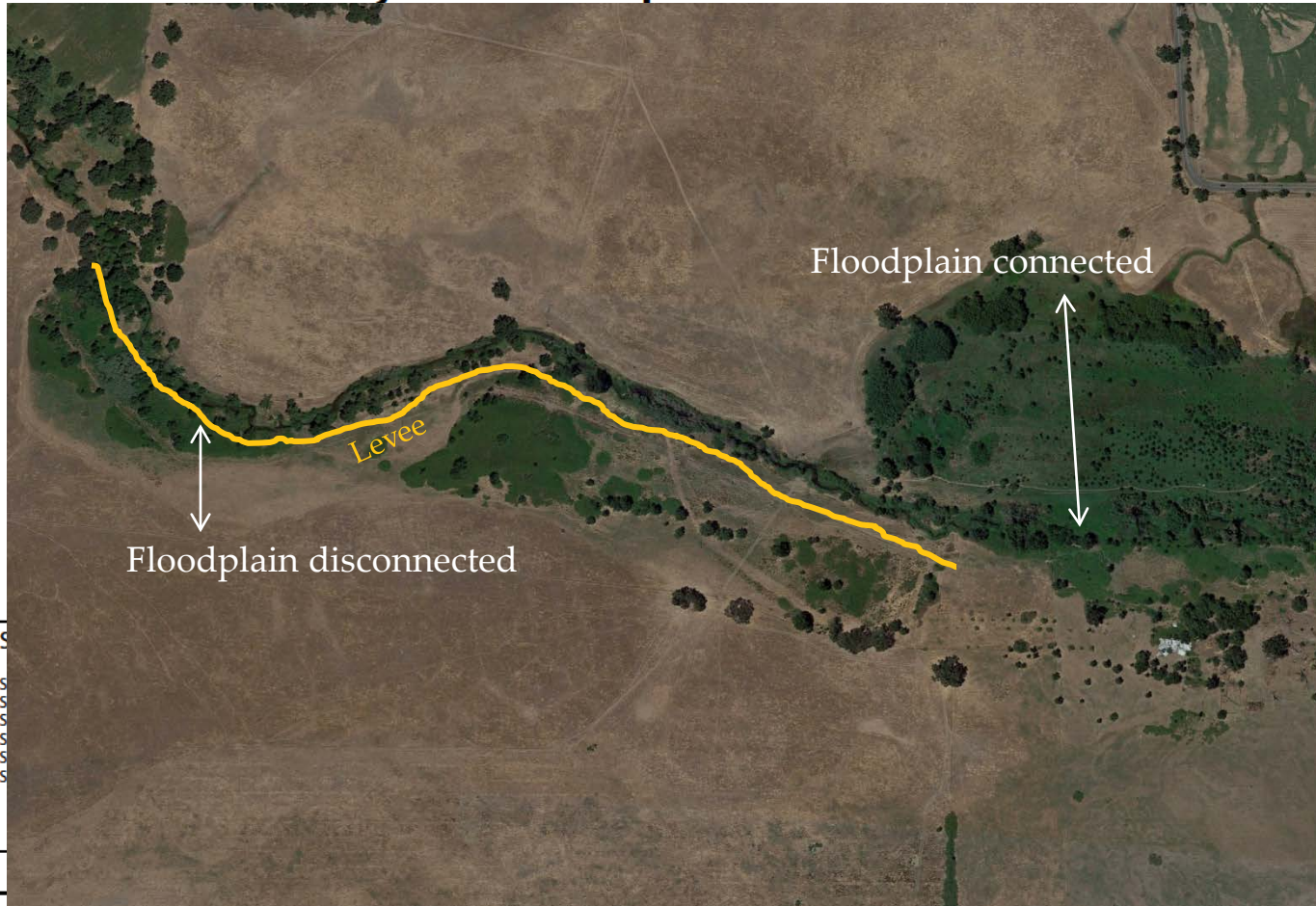
Title Sheet
Doty Ravine Floodplain Reconnection
Placer Land Trust
Placer County, California

DESIGNER	DCC
CHECKER	DCC

SCALE
as stated

SHEET
1
OF 6

Doty Ravine Floodplain Reconnection



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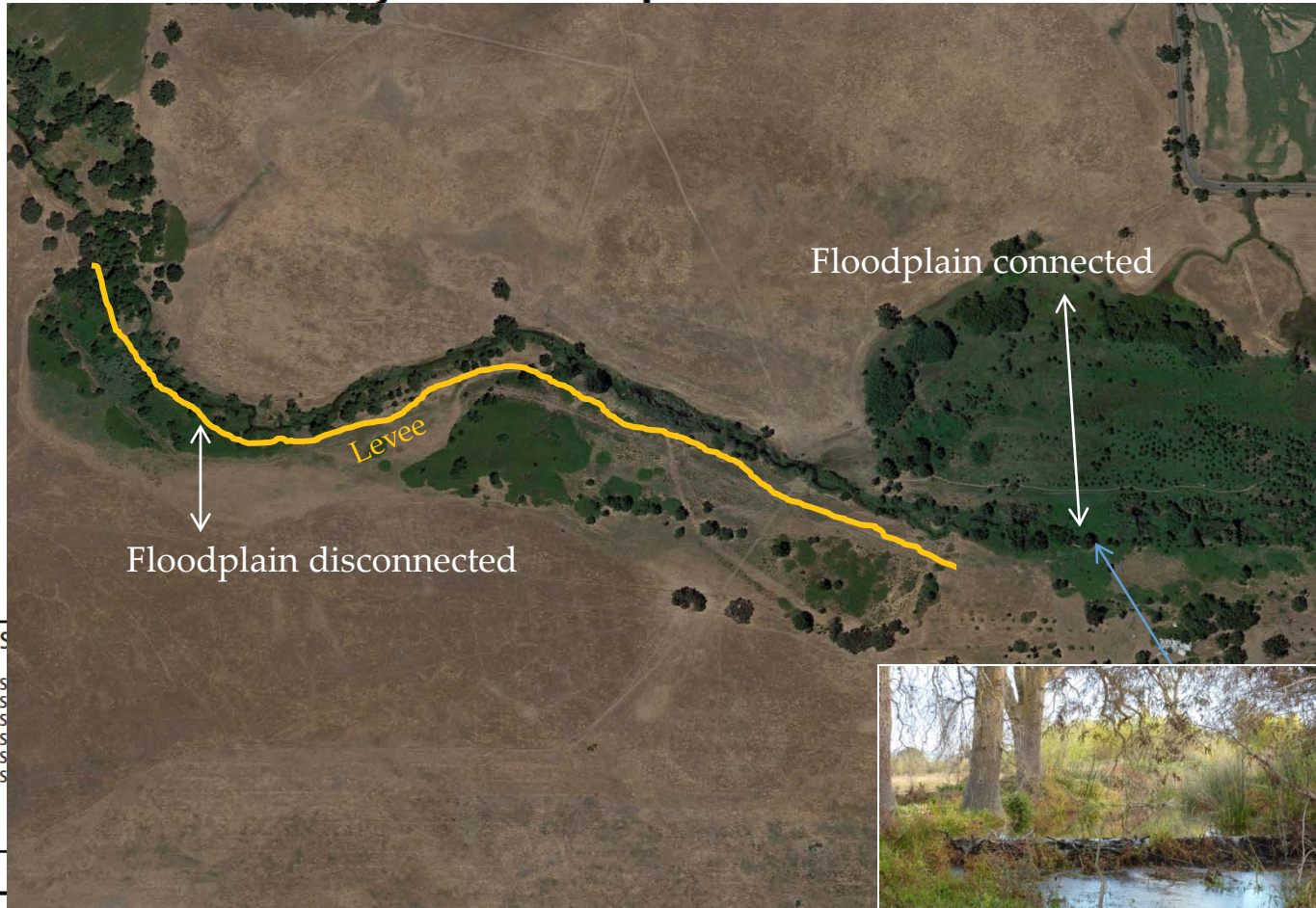
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Placer County, California

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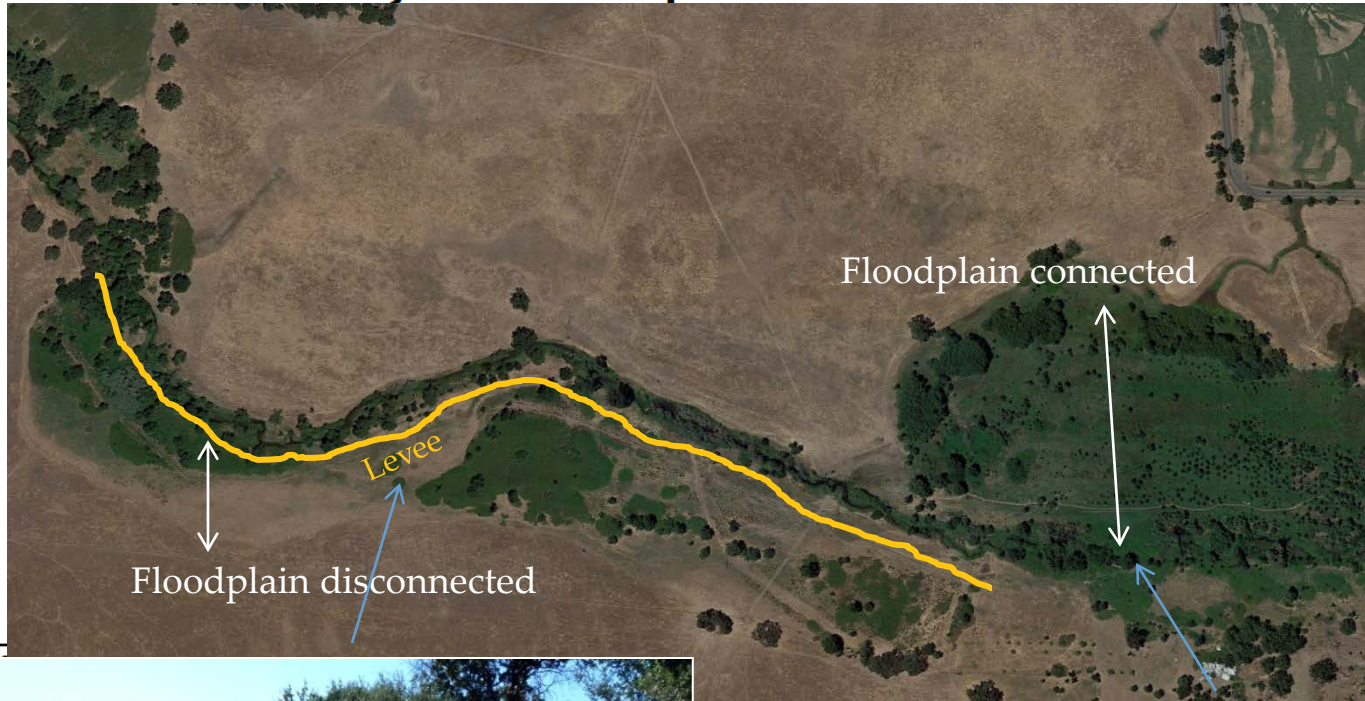


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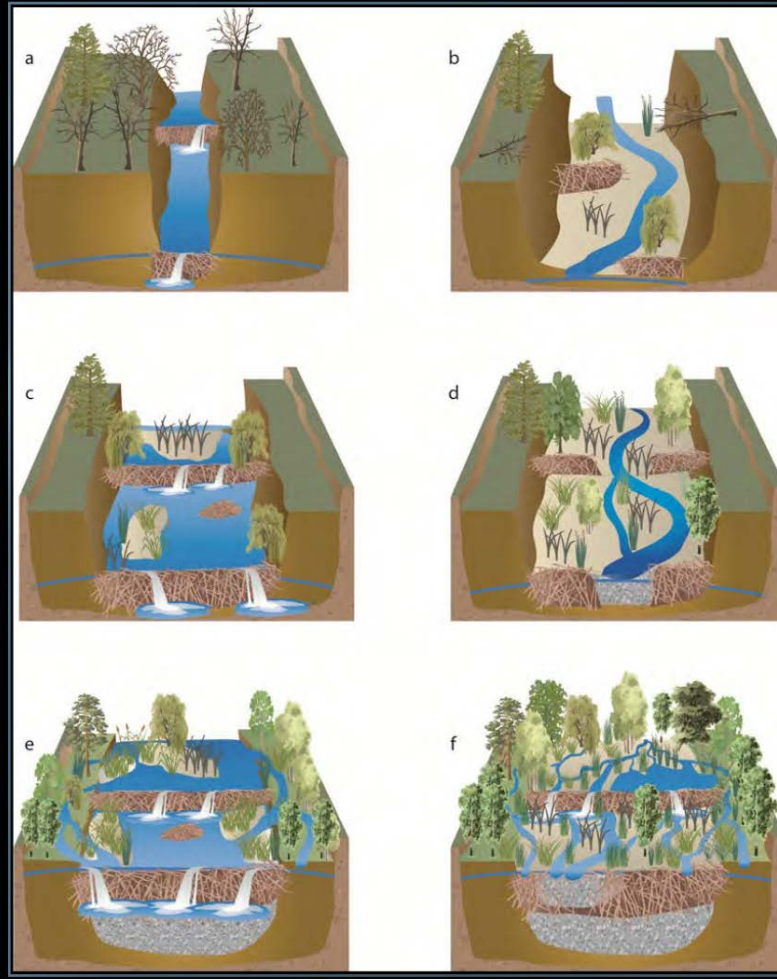


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Placer County, California



From the Beaver Restoration Guidebook



From Pollock et al. 2014

Let beaver be



Reinforce beaver dams



Remove levee



Add water



Observe and learn



Erosion

vs

Deposition

Leveed Stream



Levee breach with beaver dam



Could these be objectives for your land?

1. Increase water storage
2. Raise water table
3. Increase sediment storage
4. Expand stream corridor

Questions Comments

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Landowner Perspective

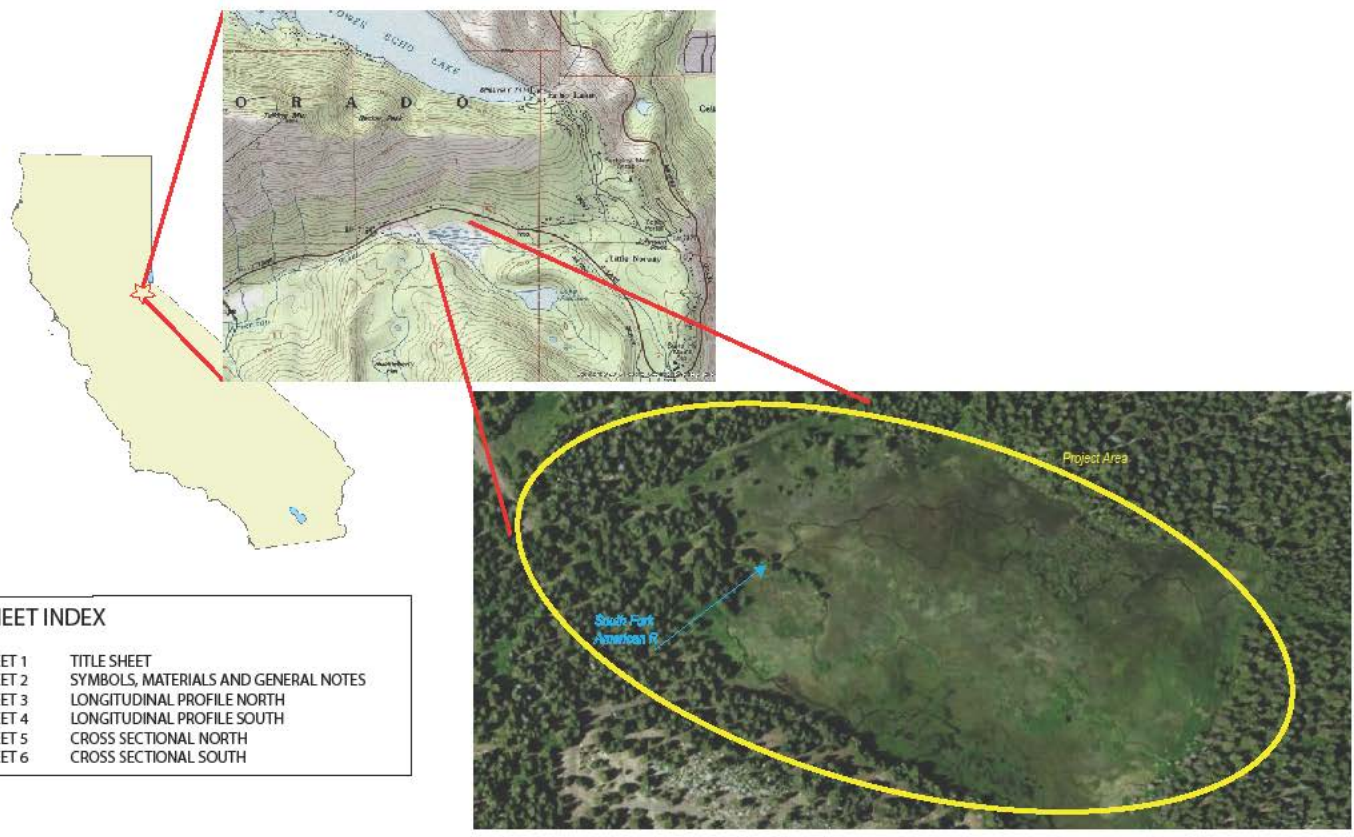
*Working with U.S. Fish and Wildlife Service
Partners Program*

Dale Pierce

DRAFT

Audrain Meadow Habitat Restoration

El Dorado County, California



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SHEET 4	LONGITUDINAL PROFILE SOUTH
SHEET 5	CROSS SECTIONAL NORTH
SHEET 6	CROSS SECTIONAL SOUTH

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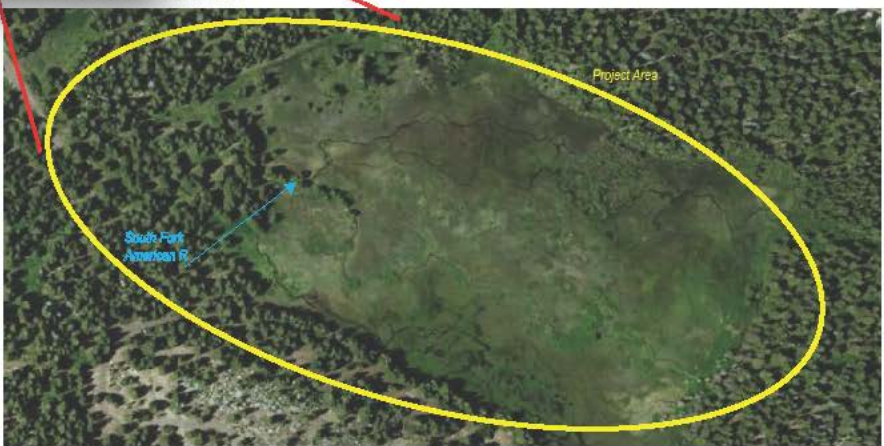
Audrain Meadow Habitat Restoration



County, Cali



Pre Project Audrain Meadow peat soils eroding July 2016



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Audrain Meadow Habitat Restoration

County, Cali



Pre Project Audrain Meadow peat soils eroding July 2016

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SHEET 6	CROSS SECTIONAL SOUTH



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