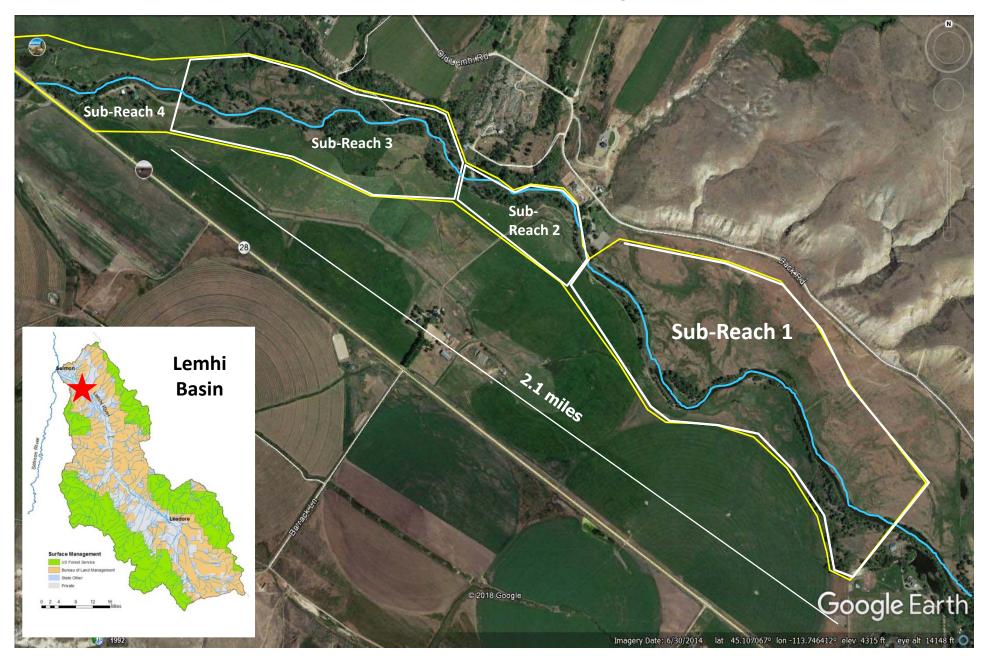
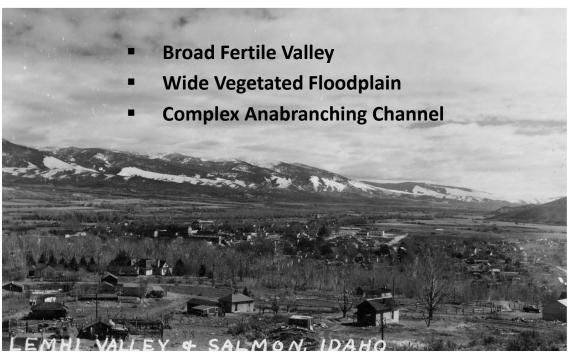
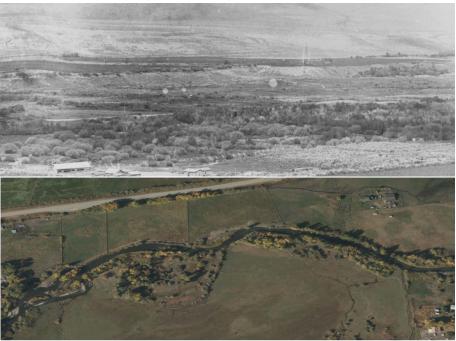
# Lower Lemhi River Project Reach





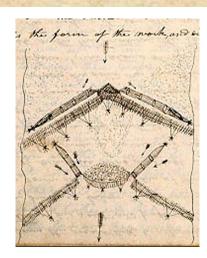


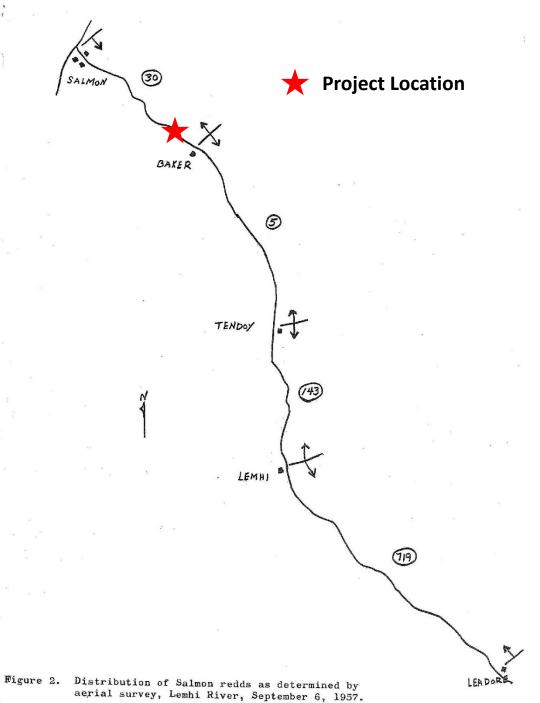
# Historical Perspective Lemhi River

## Reference to Anabranched Watershed

.... he found the weir extended across four channels of the river which was here divided by three small islands.....

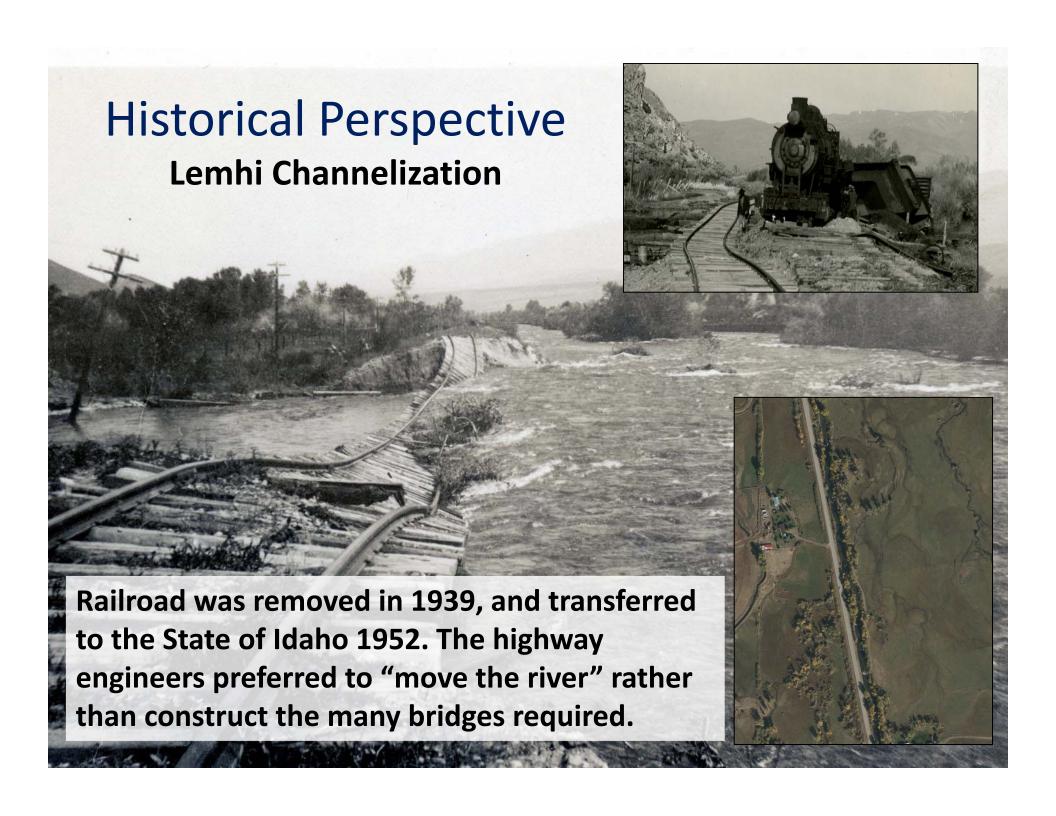
First recorded historical observation of Lemhi Shoshone-Bannock Fishing (Journals of the Lewis and Clark Expedition, Moultin 1998)

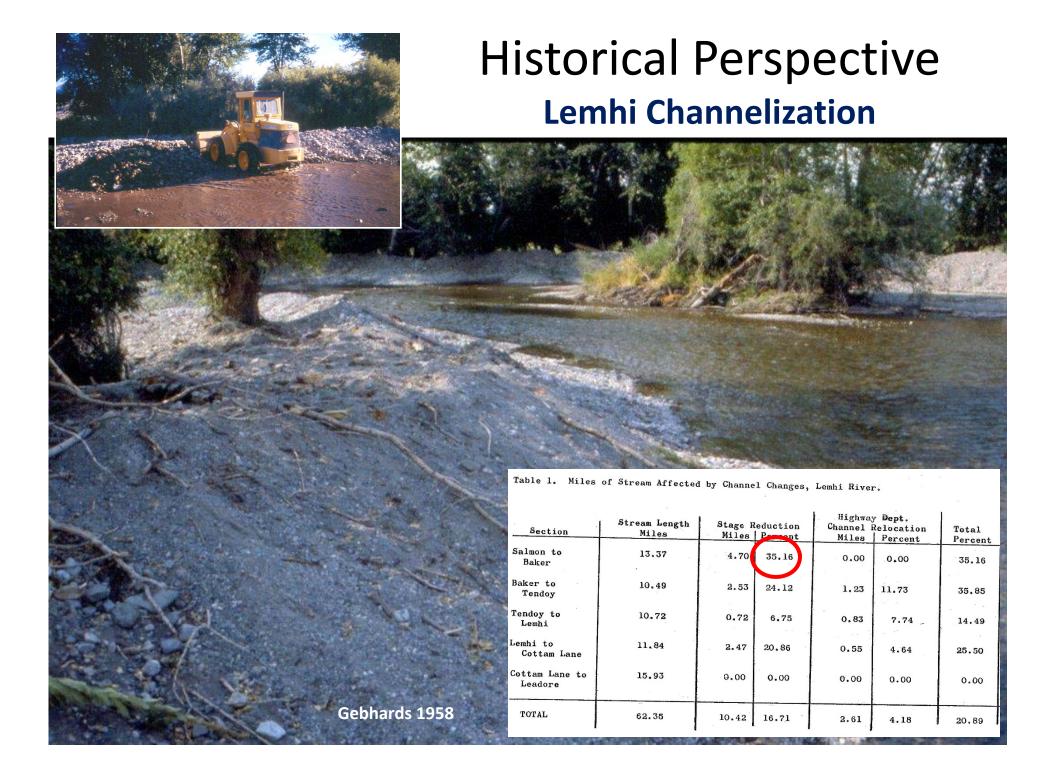




# Historical Perspective Lower Lemhi Mainstem





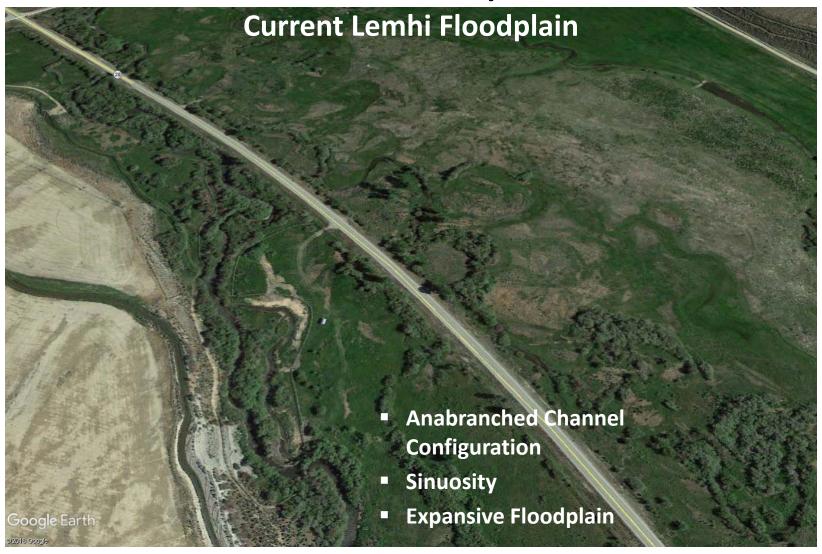


# **Historical Perspective**

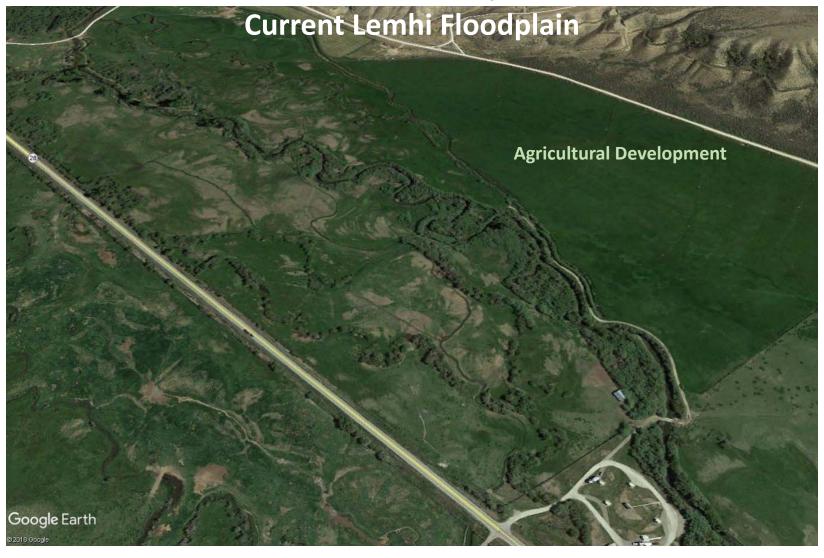
#### **Current Lemhi Floodplain**



## **Historical Perspective**



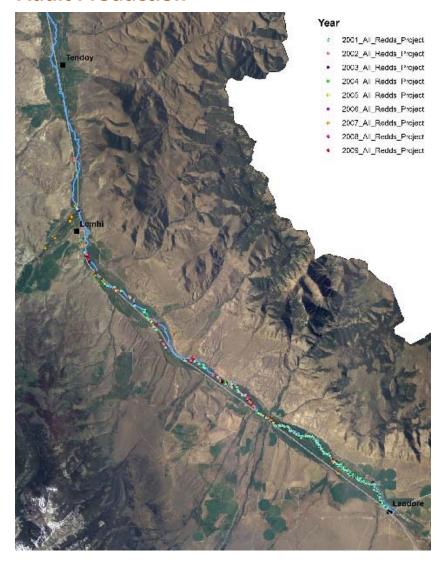
# **Historical Perspective**

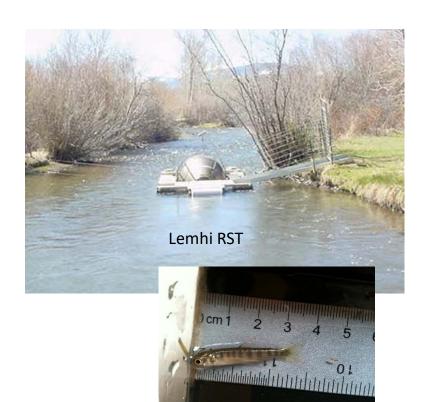


#### **Lemhi Chinook Salmon**

## Life Stage Specific Distribution

#### **Adult Production**





#### **Early Migration**

- Spawning Upper River/Hayden
- "Early" Parr
   Fry Displacement (20 45k)
  - Hayden Creek
  - Upper Lemhi

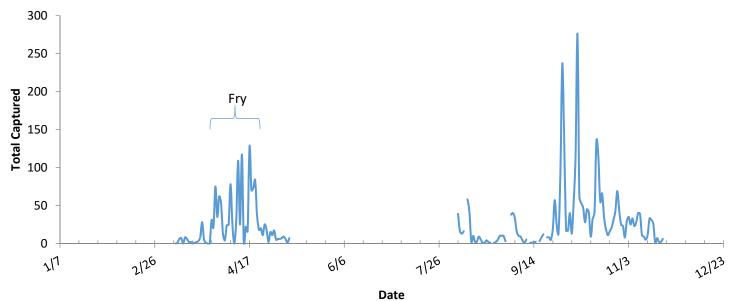
#### **Lemhi Chinook Salmon**

Life Stage Specific Distribution

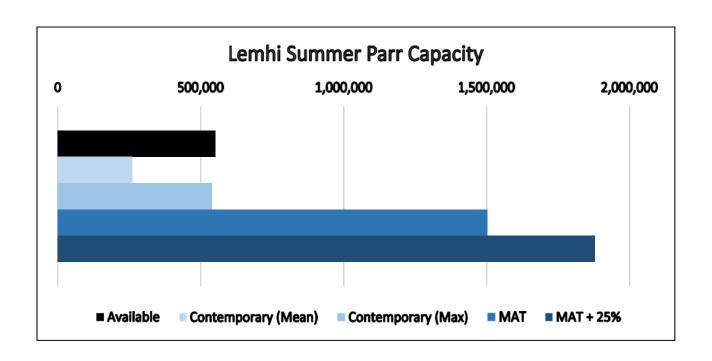


Juvenile outmigration

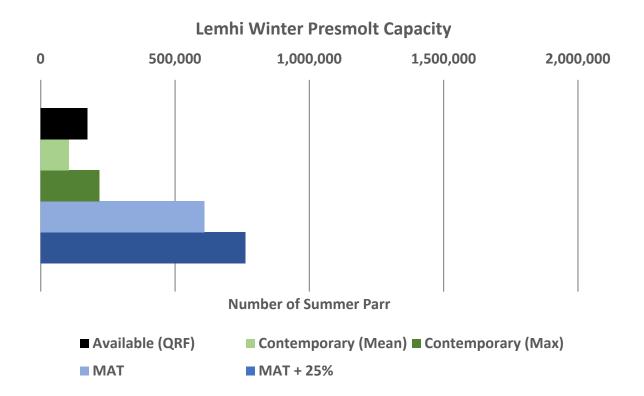
**2011** Hayden Cr Screw trap - Chinook



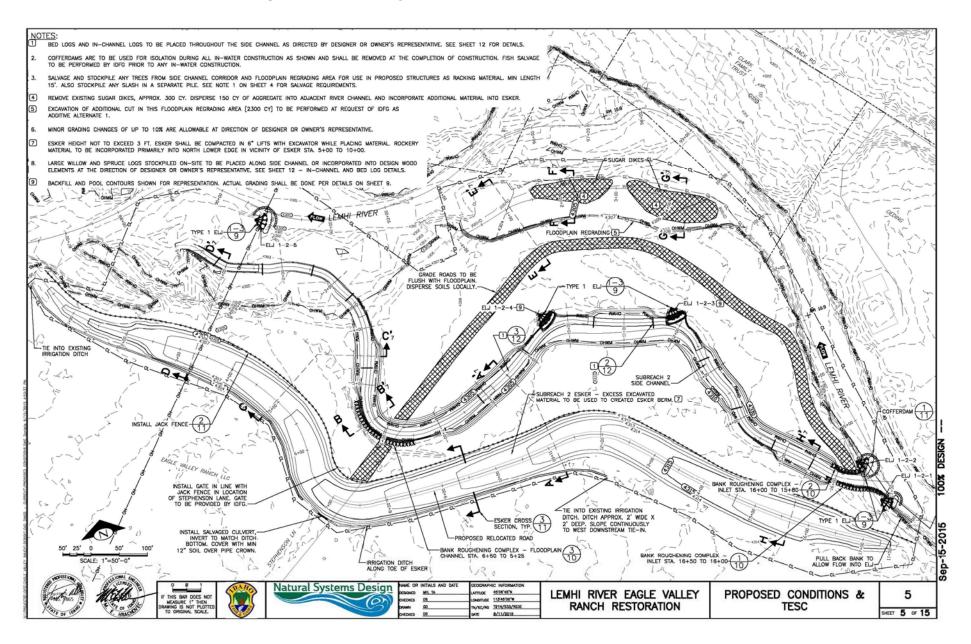
# Life Stage Specific Capacity – Lemhi Summer Parr



# Life Stage Specific Capacity – Lemhi Summer Parr



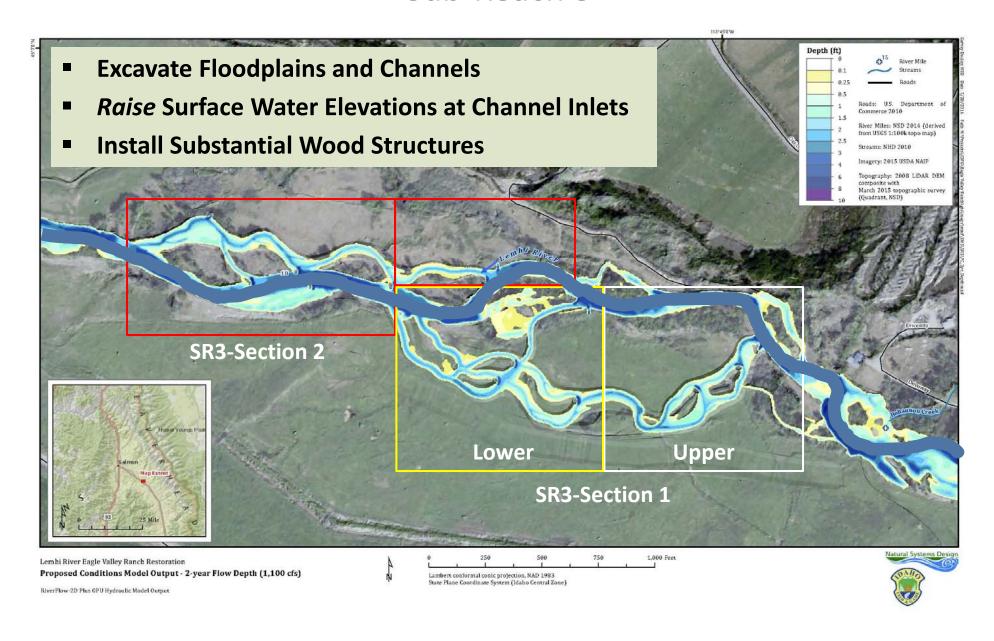
## Project Updates; Sub-Reach 2





# **Project Updates**

#### Sub-Reach 3



### SR3 – Section 1 Pre Construction



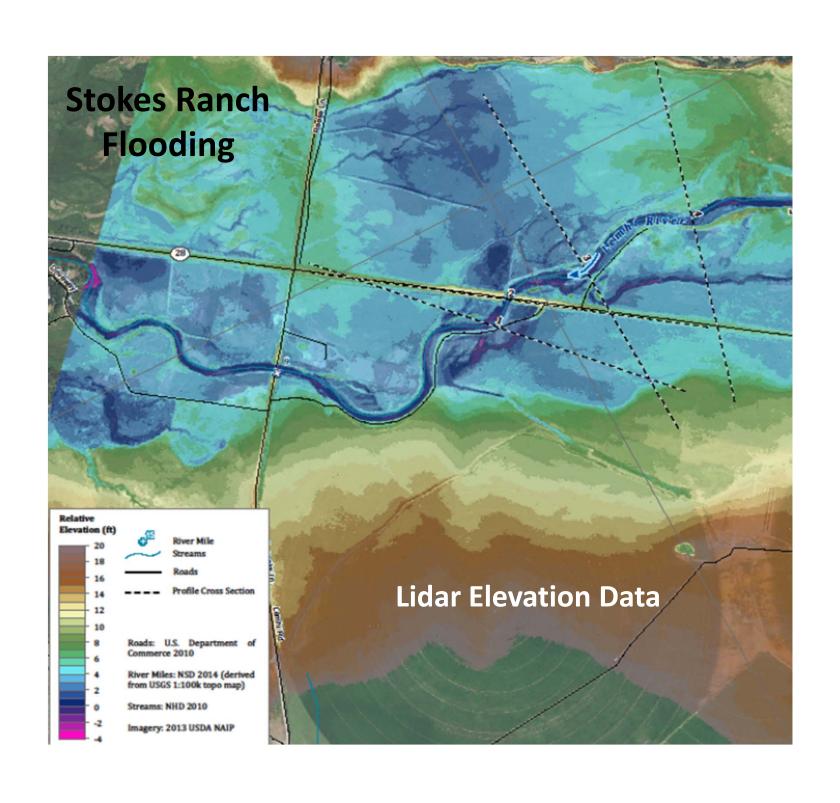
## SR3 – Section 1 Construction





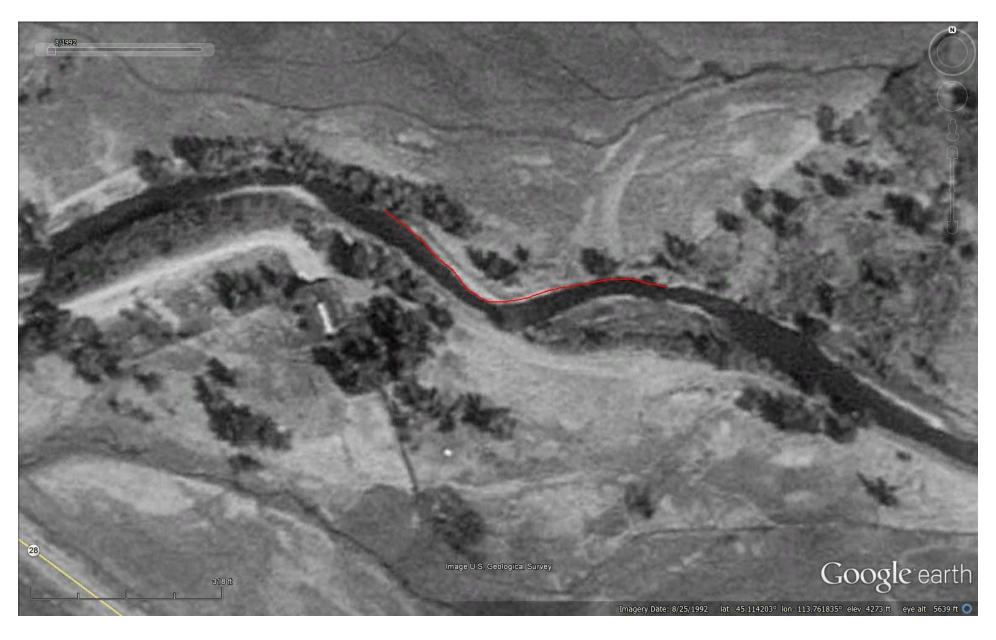
# **Project Updates**





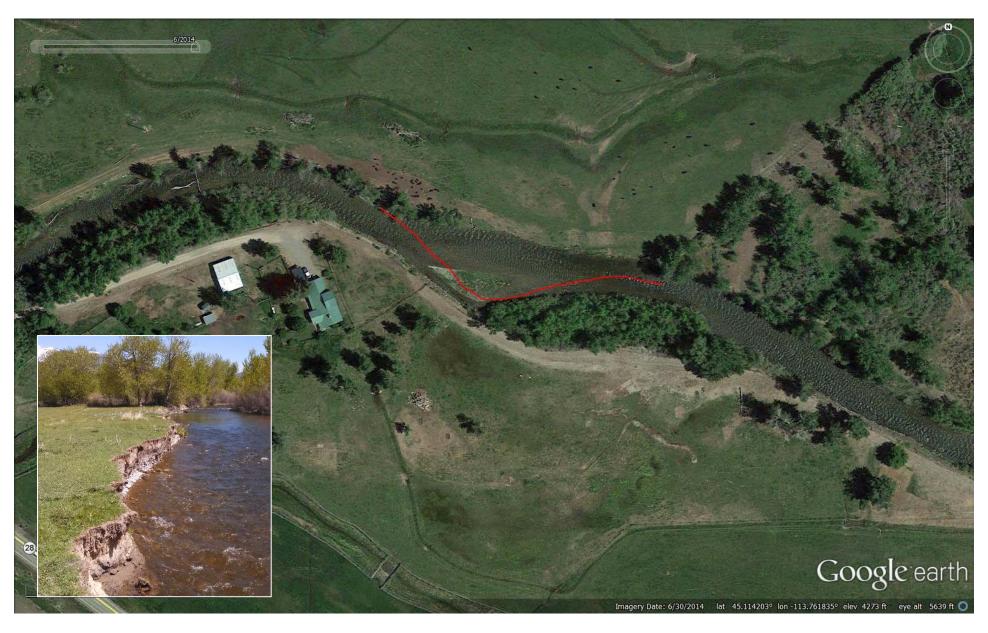
#### **Stokes Ranch**

#### Prior Scour and Erosion 1992



#### **Stokes Ranch**

#### **Prior Scour and Erosion 2014**



### **Stokes Ranch**

#### **IDFG Bank Treatment**



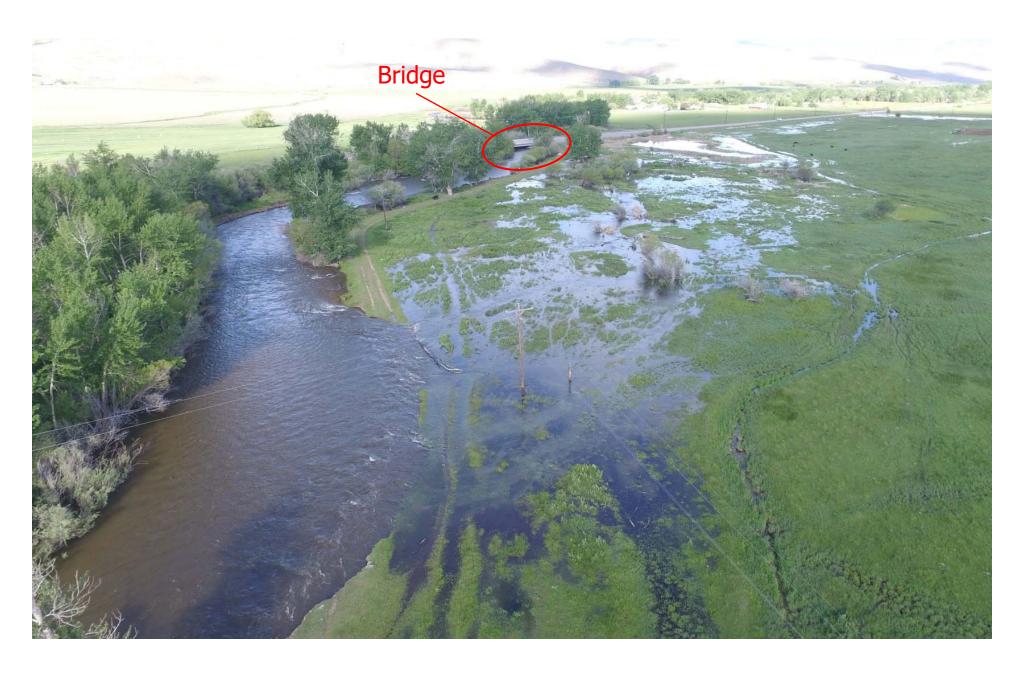








# Flooding 2018



# Flooding 2018







#### **Project Goals and Objectives**

<u>Habitat Goal</u> – Improve habitat capacity by increasing floodplain interaction and channel complexity

#### **Objectives**

#### Phase I – May 2019 Implementation

- Install bioengineered structures (LWD) to add habitat complexity while stabilize eroding banks - control downstream flooding
- Incorporate structures into Phase 2

#### Phase 2 – 2020 Implementation

- Develop lateral floodplain habitat/anabranched channels
- Improve mainstem stream sinuosity
- Add complexity (LWD) side channel/mainstem
- Develop floodplain interaction