Santa Barbara Climate Change Analysis

- Identify Vulnerabilities
- Prioritize Vulnerabilities
- Analyze Vulnerabilities
- Identify Strategies
- Integrate into IRWMP
Climate Change Vulnerabilities

Increased demand due to drought and increased temperatures
Increased Water Demand

Daily heat patterns impact crops

Instream flow could be insufficient to support aquatic life
Limited water storage

- Decrease in snowmelt could impact imported SWP water supply
- Saltwater intrusion with drought
- Invasive species management
Water Quality

Increase in wildfires could threaten water quality in reservoirs
Sea Level Rise

- Coastal erosion
- Coastal structures
- Balance between fresh and salt water in estuaries and wetlands
- Flood prone areas during extreme high tides or storm surges
- Land subsidence
Flooding

- Insufficient flood control facilities
- Wildfires increase risk of flooding within the burn and downstream areas
Ecosystem and Habitat

- Erosion
- Endangered species restoration efforts
- Recreation and economic activity reliant on aquatic habitat
- Rivers with quantified environmental flow requirements
- Fragmented habitat
Additional Steps

- Prioritize vulnerabilities
- Analyze vulnerabilities
- GHG mitigation strategies
- Strategies
  - Water use efficiency
  - Recycled water
  - Increase water supply (dam sedimentation removal, cloud seeding)
  - Water storage
  - Groundwater storage/conjunctive use
  - Groundwater remediation
  - Green power sources
- Consider in project selection
Santa Barbara County IRWM Region
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