







# WHAT IS CLIMATE CHANGE ADAPTATION?

- Increasing the resilience and resistance of natural and socioeconomic systems to climate change.
- Resilience = ability to bounce back after disturbance
- **x** Resistance = ability to withstand disturbance
- Adaptation includes both responding to and preparing for climate change impacts.

# ClimateWise Process

#### What it does

- + Provides up-to-date scientific information
- Provides regionallyspecific projections
- + Works across disciplines to develop complementary strategies
- + Creates new lines of communication

#### What it doesn't do

- Instill NCCSP'S values or recommendations
- Take a political stance
- Create a full adaptation plan for the County
- Implement strategies or recommendations





































- Issue #1: Unsustainable ground water withdrawal reduces the resilience of riparian and aquatic species to climate change
  - + Monitor and regulate ground water withdrawal
  - + Incentives for water conservation
  - + Consider new types of crops that use less water





 Issue #2: Native species will need connected habitat to shift their ranges as the climate changes.



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  - + Develop regional plans for habitat connectivity
  - Develop incentives for private land owners to provide habitat
  - Retain ranches and large tracts of land





- Issue #3: Sedimentation from land use and wildfire is affecting water quality - will worsen
  - + Encourage/educate changes to land use



- Restore wetlands and riparian zones
- Prescribed burning to retain healthy uplands

## HOW DO WE ADAPT TO/PREPARE FOR CHANGE?

 Issue #4: Loss of wetlands, riparian areas, and floodplains has reduced aquatic and riparian species resilience to climate change



- Issue #4: Loss of wetlands, riparian areas, and floodplains has reduced aquatic and riparian species resilience to climate change
  - + Restore/create wetlands, riparian zones, and floodplains
  - + Protect remaining ones from cattle, development



# HOW DO WE ADAPT TO/PREPARE FOR CHANGE?

 Issue #5: Sea level rise threatens coastal wetlands and intertidal zones



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  - + Do not armor the coast
  - + Rolling easements
  - + Relocation of key developments





# <section-header> HOW DO WE ADAPT TO/PREPARE FOR CHANGE? \* Issue #6: Loss of oak woodlands will be exacerbated by climate change. • Restore oak woodlands by protecting seedings. • Incentives for oak woodlands on private land. • Develop more drought resistant.

oak



- Issue #7: Most productive habitat for T&E species often found on private land
  - + Rework "Critical habitat" designations
  - + Include future habitat and movement corridors as well as current strongholds



## HOW DO WE ADAPT TO/PREPARE FOR CHANGE?

 Issue #8: Renewable energy installations could further reduce the resilience of species and ecosystems to climate change



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- Incentives for rooftop solar over large solar plants
- Take advantage of already degraded land –no developments in viable habitat or corridors

