Our Water Future in the Salinas Valley

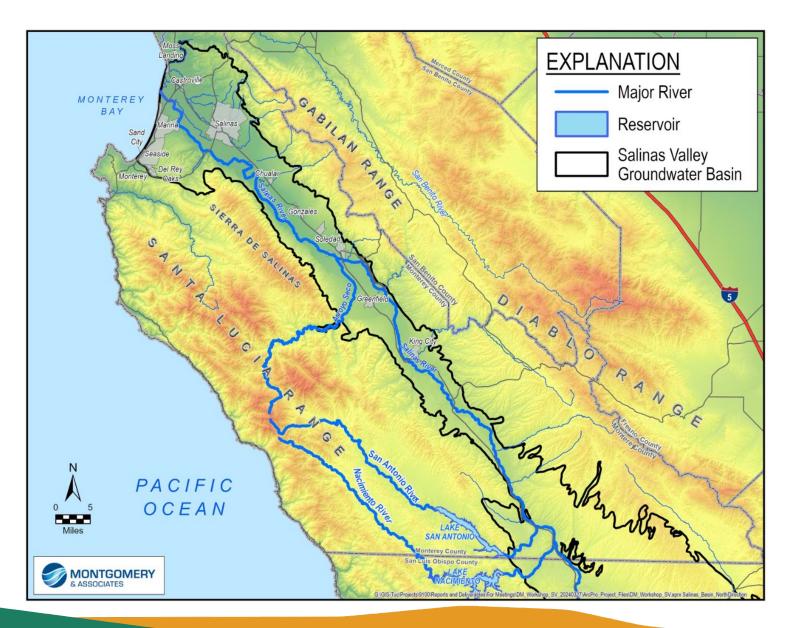
PLANNING FOR UNCERTAINTY

Overview of the Salinas Valley Groundwater Basin









Water Use Underpins Economy

- Almost \$5 billion in direct economic outputs from Agriculture (2018)
- With ripple effect of what is re-spent in the County, Agriculture contributes about \$11.7 billion to the County's economy
- Agriculture accounts for 1 in 5 jobs in the County





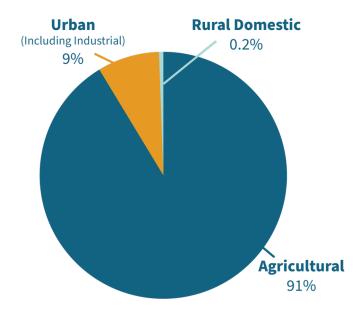




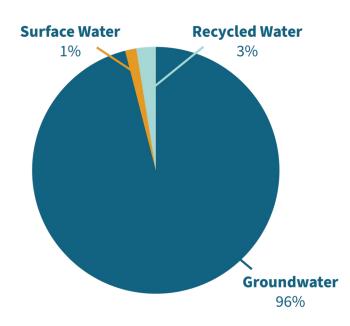
Agriculture Uses 91% of Water

**Environmental water has not been quantified



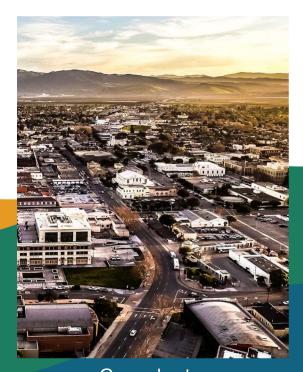


Water Type



High Dependence on Groundwater

Urban



Groundwater 96%

Rural Residential



Groundwater 100%

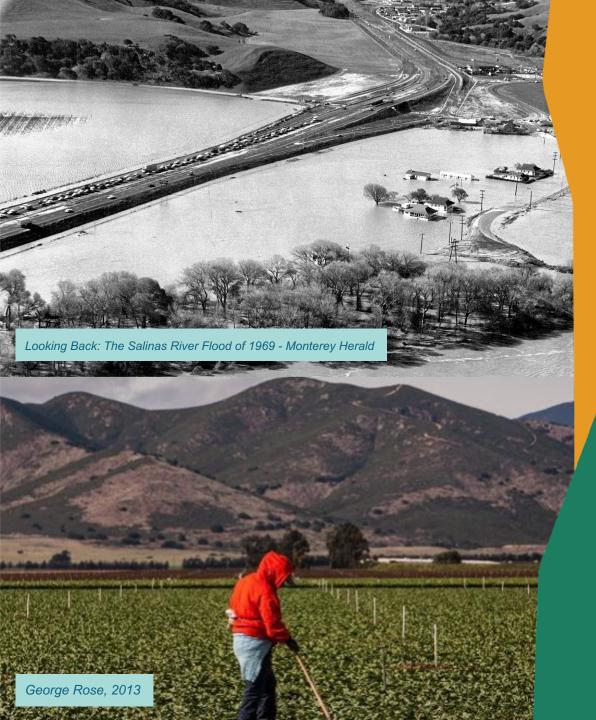
Agriculture



Groundwater 96%

Environmental





Water Use has Led to Challenges

- Groundwater Level Decline
- Loss of Groundwater in Storage
- Seawater Intrusion

Groundwater Level Declines

PACIFIC OCEAN MONTGOMERY & ASSOCIATES

2022

DRY CONDITIONS LED TO CRITICALLY LOW GROUNDWATER LEVELS

- Critically low groundwater level
- Low groundwater level
- Sustainable groundwater level

2023 WET CONDITIONS

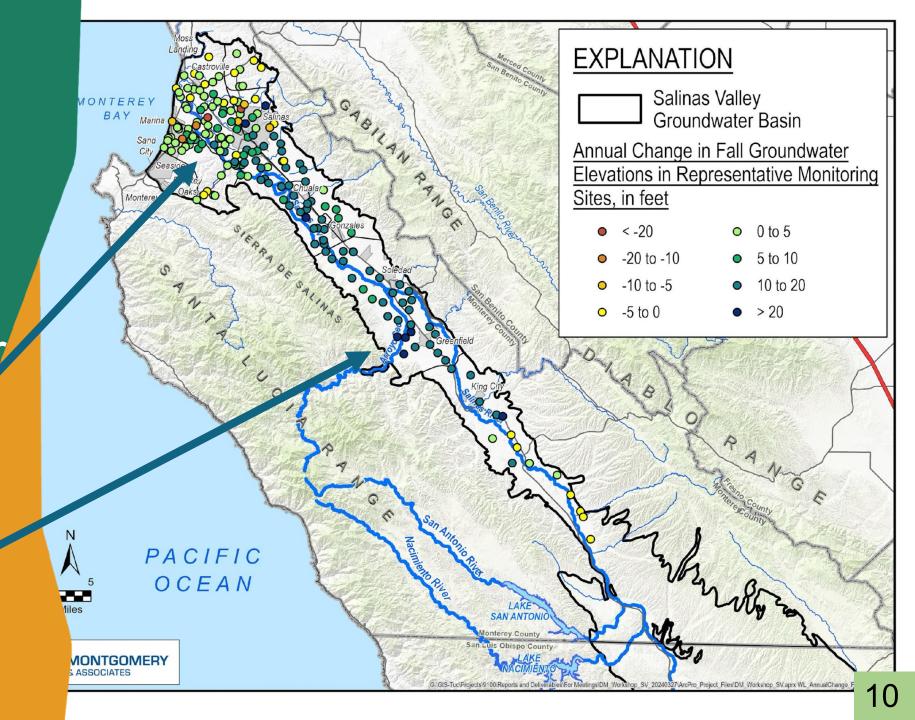
LED TO FLOODING



Groundwater
Level Change
after Wet Year

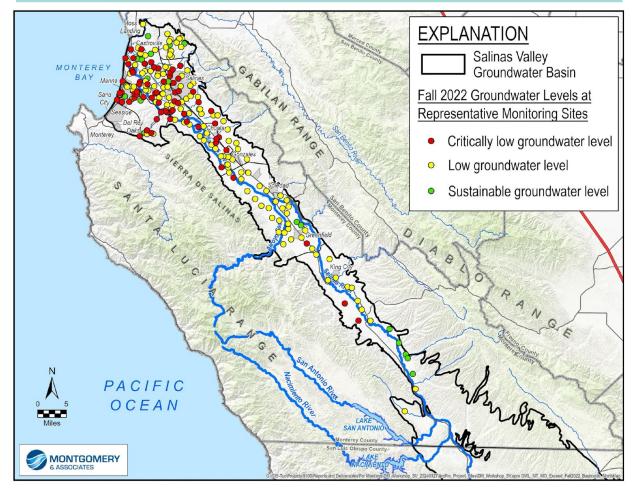
Declines in some wells

Increases in many wells

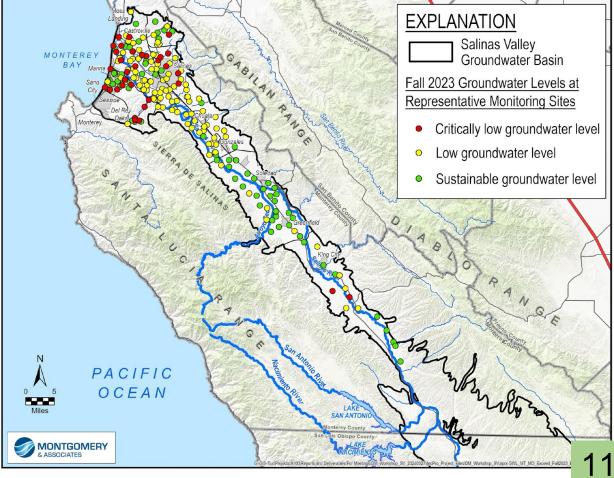


Still Wells with Critically Low Groundwater Levels

Dry-Normal 2022



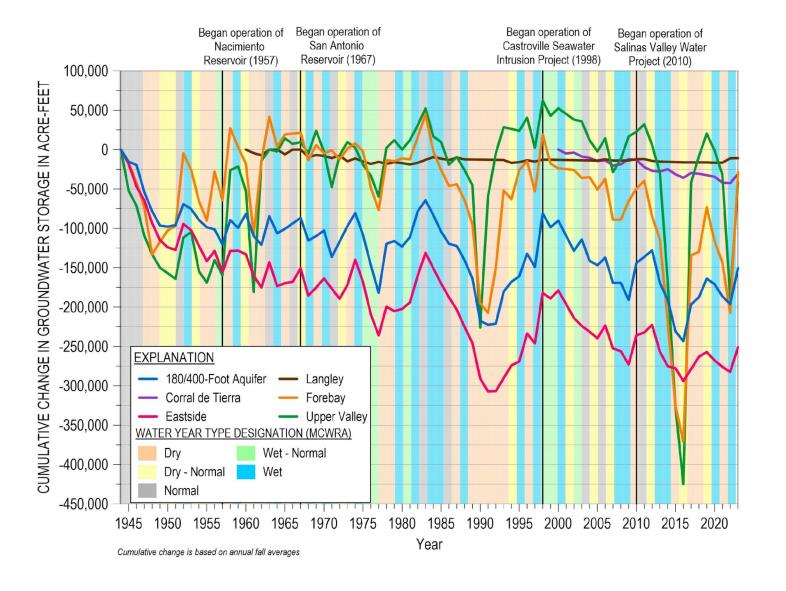
Wet 2023



Loss of Groundwater in Storage

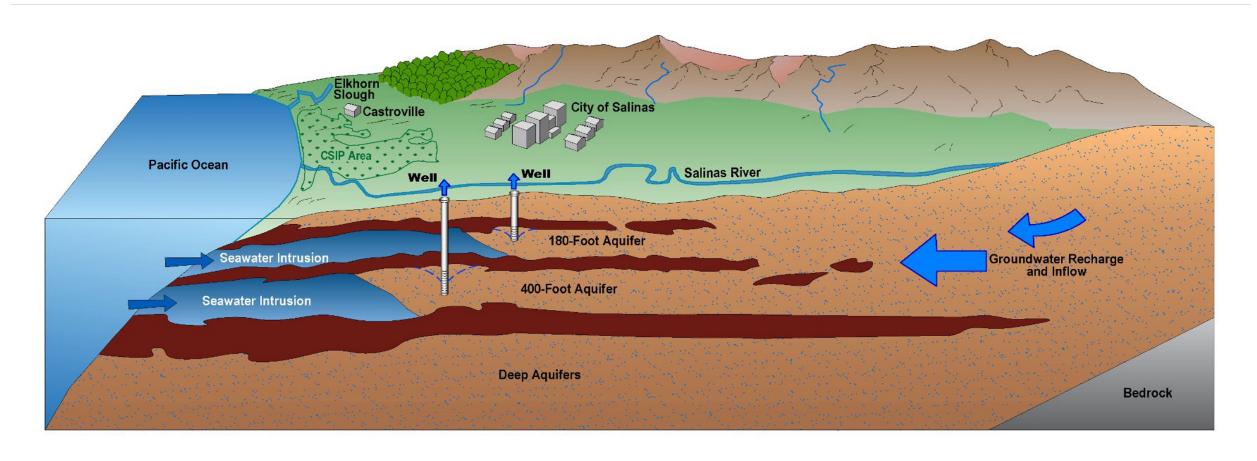
Long-Term Loss of Groundwater Throughout the Valley

- Result of groundwater level declines
- Less water to supply agriculture and municipalities
- Exacerbated by droughts



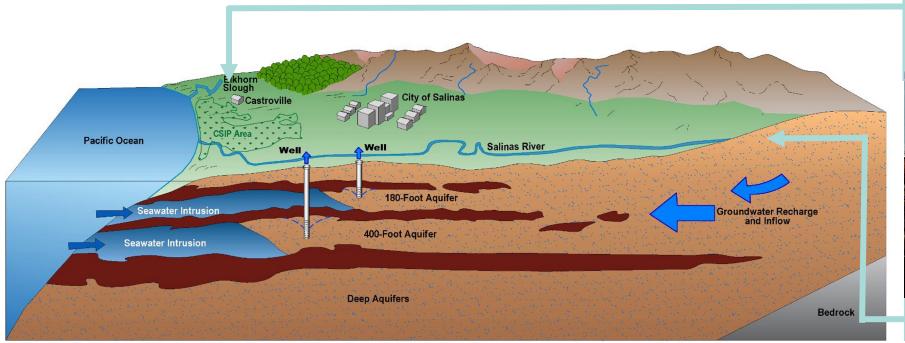
Seawater Intrusion

Decline in Groundwater Levels Contributes to Seawater Intrusion



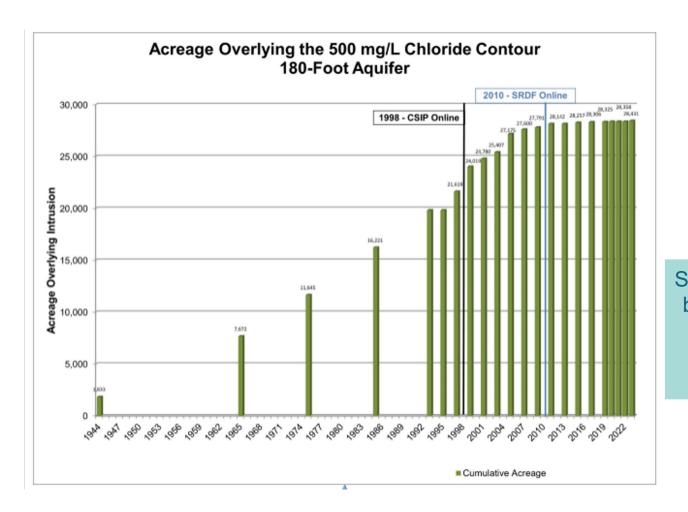
Monterey County Water Resources Agency Developed

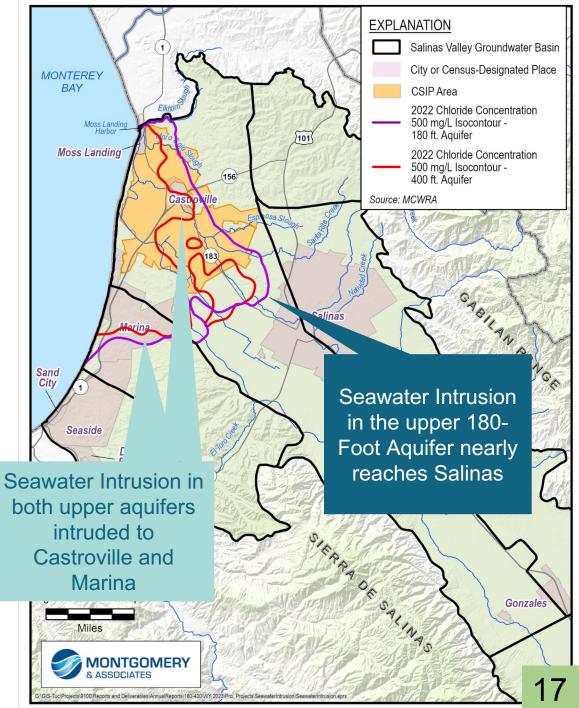
Water Infrastructure





Rate of Seawater Intrusion has Slowed but not Stopped





Additional Water Challenges

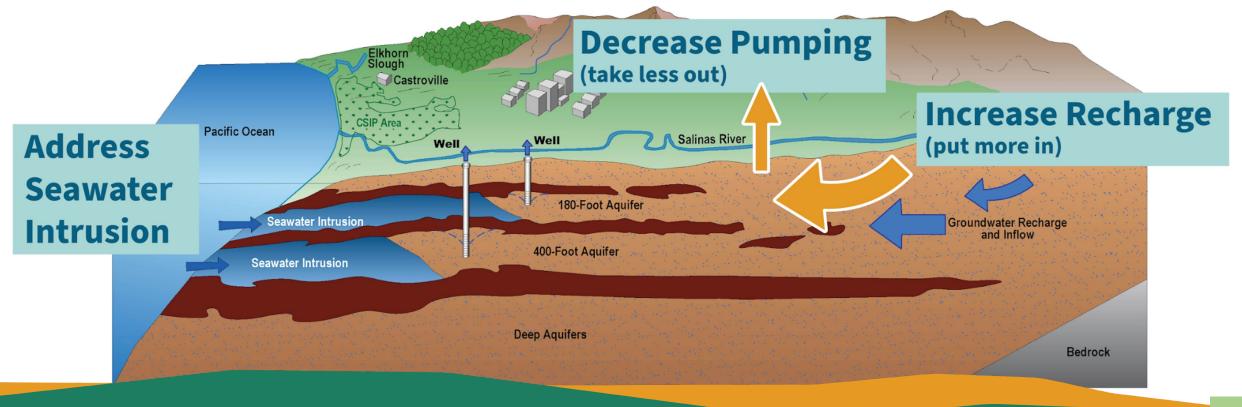
- Dry wells
- Nitrate contamination
- Naturally occurring arsenic
- Environmental habitat degradation

Need to Plan for Uncertainty

- Groundwater Levels have fluctuated over time
- Negative impacts from both floods and droughts
- Need to manage and plan for uncertainty and extremes
- Groundwater levels need to be raised in many areas

How Can Groundwater Levels

BE RAISED?



Questions 7