Our Water Future in the Salinas Valley

PLANNING FOR UNCERTAINTY

Management Options: What Can We Do?

Salinas Valley Basin Groundwater Sustainability Agency

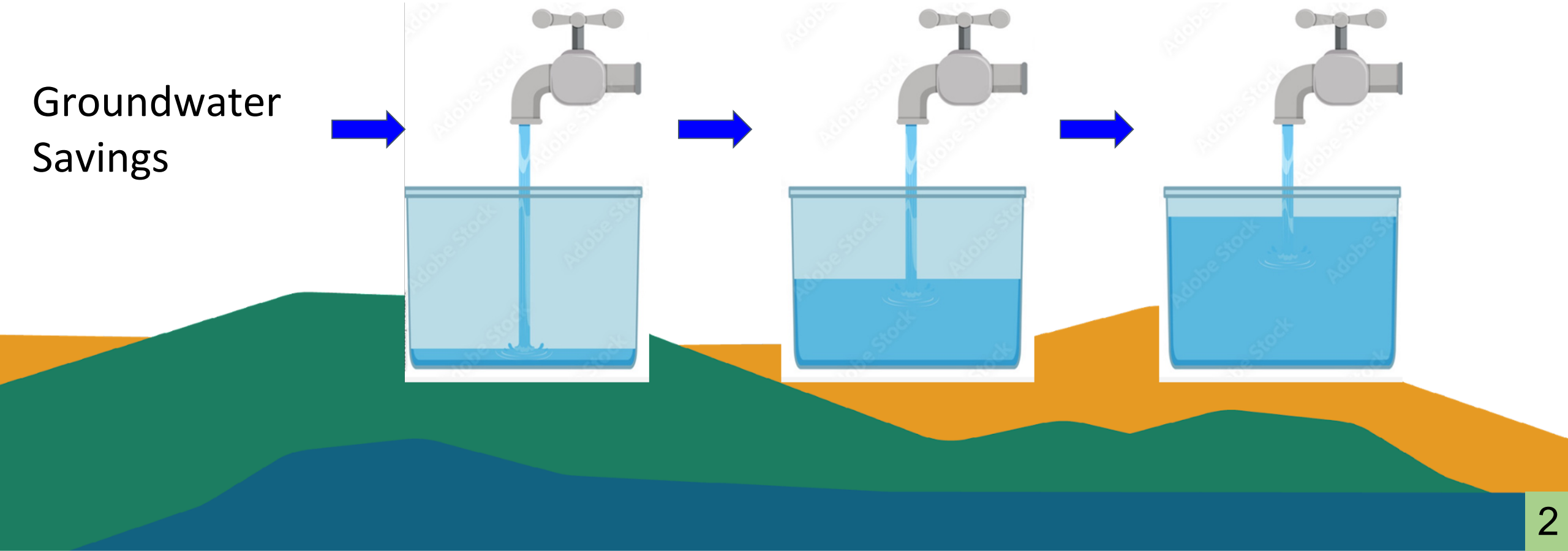
Actions Are Part of Our Portfolio

Groundwater Savings

Existing Actions

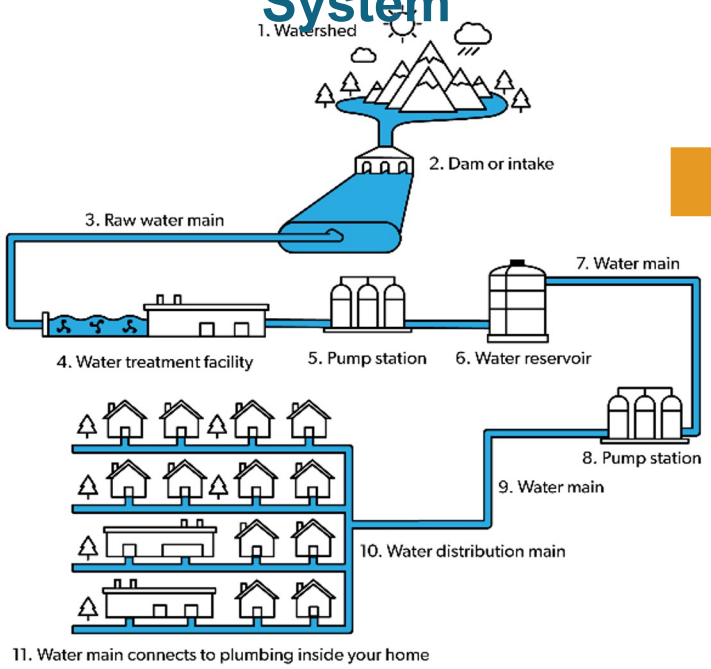
Projects

Future Actions



Focusing on How to Address Uncertainty and Scarcity

Existing Water System



Uncertainty and Unavoidable Challenges

Drought
Growth
Change in Demand Pattern
Infrastructure Failure
Regulatory Changes

What Actions Can We Take as a Community?

Management Action Differentiators

All Actions are Not Equal

Temporary vs. Permanent

- Temporary addresses short term problems such as drought.
- Permanent support other projects attaining long-term sustainability

Reliance of Benefits

- Some actions have the same benefit every year
- Some actions have variable annual benefits, depending on rainfall, public participation, etc.

All Actions are Not Equal

Voluntary vs. Obligatory

- Voluntary might be implemented by some people. Success relies on how many people implement the action
- Obligatory requires all people to participate

Variable Cost

- Cost to implement
- Cost to maintain
- Cost to the local economy vs. cost to individuals

Examples of Management Actions

Example Management Actions

- NOT an Exhaustive List
- Ranked generally from low cost/low benefit to high cost/high benefit
- They can be implemented together or separately
- Some are variations on each other

LOW-COST ACTIONS

Urban Conservation

Water savings come from individuals investing in new practices/ technology

- Permanent
- Voluntary for individuals - likely obligatory for municipalities
- Low cost
- Recurring, but low benefit every year

LOW-COST ACTIONS

Decentralized Residential Water Capture

Water savings come from individuals storing rainwater for non-potable use

- Permanent
- Voluntary
- Low cost
- Recurring, but low benefit every year

Promote Best Agricultural Practices

LOW-COST ACTIONS

Water savings come from individuals investing in new practices or technologies

- Permanent
- Voluntary
- Low cost
- Recurring, but low benefit every year

LOW-COST ACTIONS

Limit Place of Use

Water savings come from limiting how far water can be moved

- Temporary or Permanent
- Obligatory
- Low to Medium cost
- Recurring benefit every year

Provide Water-Use Data

Water savings come from individuals assessing their individual water use, and increasing efficiency

- Permanent
- Voluntary
- Medium cost to implement and maintain
- Likely recurring benefit every year

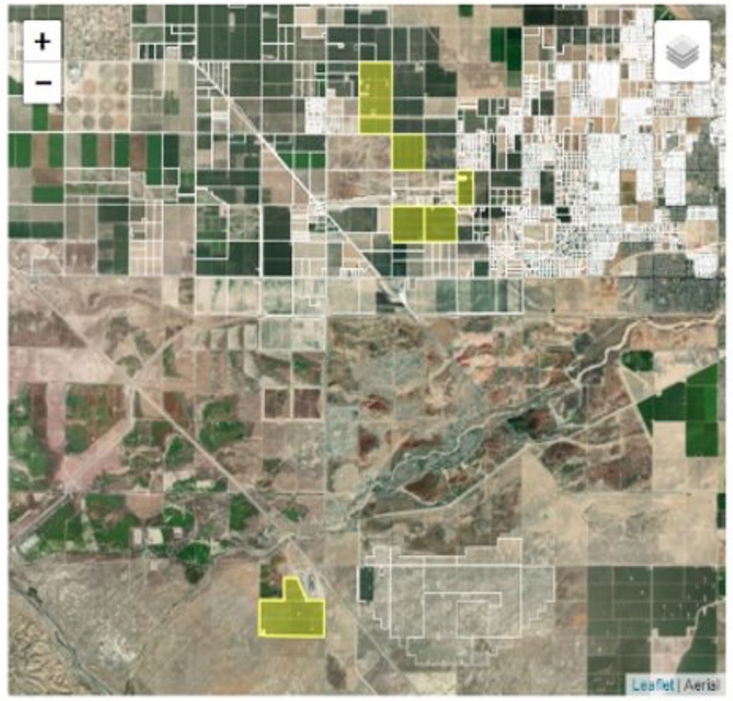
Water Use

Estimated through 12/31/2018*

APN	Water Usage
104-220-04	1,384.0 ac-ft
160-130-36	1,017.7 ac-ft
407-111-01	457.1 ac-ft
407-112-23	195.5 ac-ft
408-121-06	585.4 ac-ft
408-121-07	585.7 ac-ft

*Estimated water usage is based on satellite imagery and may not be accurate at the APN level.

Parcel Map



MEDIUM-COST ACTIONS

Fallowing Options

- Agricultural land is idled
- Groundwater is not pumped for irrigation
- Land must still be managed
- Various, related options

MEDIUM-COST ACTIONS

Delay Crop Replacement

Water savings come from occasionally fallowing fields before crops are replaced

- Temporary or permanent policy
- Voluntary
- Low cost to public, medium cost to individual growers
- Variable and likely low, benefit every year

MEDIUM-COST ACTIONS

Rotational Fallowing

Water savings come from resting different fields on a rotating basis

- Permanent
- Obligatory
- Low cost to public, medium cost to individual growers
- Recurring benefit every year

MEDIUM-COST ACTIONS

Fallow Bank

Water savings come from resting different fields on a rotating basis. All growers fund a “bank” that reimburses fallowing costs.

- Temporary or Permanent
- Voluntary fallowing
- Medium cost to public and individual growers
- Variable benefit every year

MEDIUM-COST ACTIONS

Repurpose/Retire Agricultural Land

HIGH-COST ACTIONS

Water savings come from permanently stopping irrigation on certain parcels

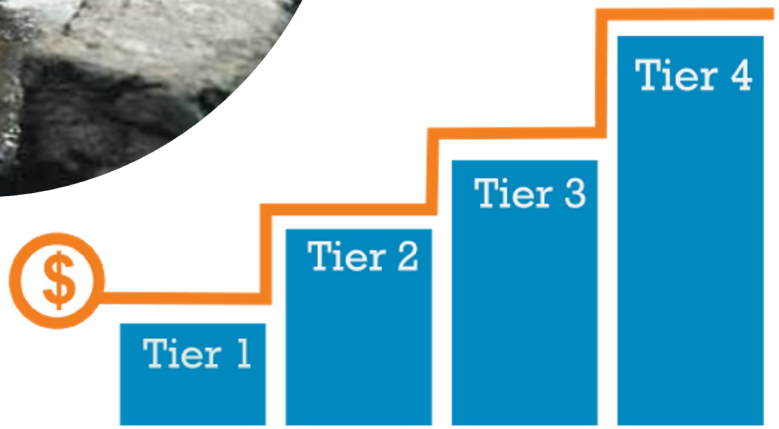
- Permanent
- Voluntary
- High cost – land must be bought or otherwise be compensated for
- Recurring and benefit every year

Tiered Extraction Fees

HIGH-COST ACTIONS

Water savings come from economic incentive to reduce water use

- Permanent or Temporary (but difficult)
- Obligatory
- High cost for managing program
- Recurring and potentially high benefit every year



Compulsory Rationing

HIGH-COST ACTIONS

Water savings come from enforcing strict limits on water use

- Permanent or Temporary
- Obligatory
- High cost for managing program
- Recurring and high benefit every year

Simplified Actions for the Exercise

Simplifications

Simplified to 2 factors

- Cost
- Benefit

Three categories of actions

- Pay one (smaller cost), receive annual benefit
- Receive benefits in year it is paid for
- Pay one (larger cost), receive annual benefits

Questions?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