



DRAFT WORK PRODUCT



Borrego Valley Groundwater Basin Borrego Springs Subbasin Municipal Allocations

Projects and Management Actions

Project #2:

Water Conservation and Efficiency



Projects and Management Actions

Project #2: Water Conservation and Efficiency

■ Potential Water Savings & Cost

- Preliminary, high level examples based on historical water usage and practices
- Each potential project will be evaluated by cost, benefit, and feasibility
- Conservation measures could easily amount to 25% of the estimated sustainable yield of the Borrego Springs Subbasin

Sector:	Potential Savings:	Approximate Cost: (per AFY/over 25 years)
Agriculture (Irrigation Efficiency)	264 AFY	\$382
Municipal (Outdoor)	315 AFY	\$339
Municipal (Indoor)	84 AFY	Variable
Recreation (Golf Courses)	674 AFY	\$128 - \$329
Total	1,337 AFY	\$128 - \$382

Projects and Management Actions

Project #2: Water Conservation and Efficiency

■ Benefits of Comprehensive Conservation Program

- Reduction of water use and ensured water reliability and affordability
- Consistency with California Water Policy
- Increased awareness of a critical resource
- Customer participation and ownership
- District commitment to efficient water use and Subbasin management
- Municipal and recreational water use will be an increasingly larger percentage of overall water use as sustainability measures are implemented

Projects and Management Actions

Project #2: Water Conservation and Efficiency

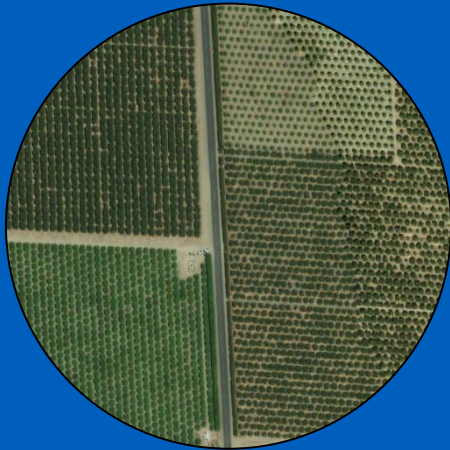
- **Existing and Historical Conservation Programs**
 - Incentivized water rate structure
 - Rebate Programs for water fixtures and appliances
 - Turf replacement with xeriscape (limited implementation)



Projects and Management Actions

Project #2: Water Conservation and Efficiency

Water Savings Potential by Sector



Agriculture



Municipal



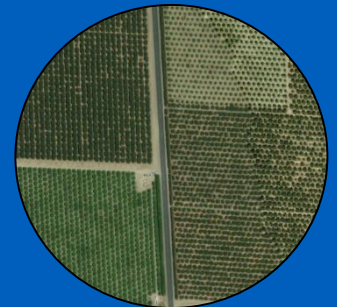
Recreation

Projects and Management Actions

Project #2: Water Conservation and Efficiency

■ Agricultural Sector

- Modification of Irrigation systems and operations
- Crop types
- Irrigation Audits – Report with recommendations
 - Potential Water Savings: Dependent on extent of utilization and degree of implementation
 - Possible Funding Sources: RCD, grants, land owner
- Potential Savings (for citrus only)
 - 264 AFY
 - \$382/AFY over 25 years



Projects and Management Actions

Project #2: Water Conservation and Efficiency

■ Municipal Sector (Outdoor)

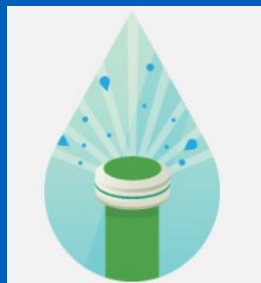
- 75% of water use is outdoors
- Potential programs:
 - HOA Landscape Reductions
 - Potential water savings: 66 AFY
 - Approximate cost of water saved: \$339/AF over 25 years
 - HOA Irrigation Efficiency Improvements
 - Potential water savings: 26 AFY
 - Approximate cost water saved: \$1,200/AFY over 25 years



Projects and Management Actions

Project #2: Water Conservation and Efficiency

- **Municipal Sector (Outdoors)**
75% of water use is outdoors
 - Other programs
 - Landscape Irrigation Audits
 - Smart Irrigation Controllers
 - Landscape Watering Calculator
 - Watering Index



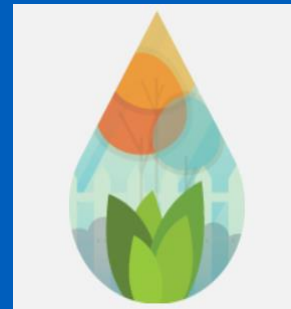
ADJUST SPRINKLER
HEADS
& FIX LEAKS



INSTALL DRIP
IRRIGATION
& ADD A SMART
CONTROLLER



REIMAGINE YOUR
YARD



DROUGHT RESISTANT
TREES & PLANTS

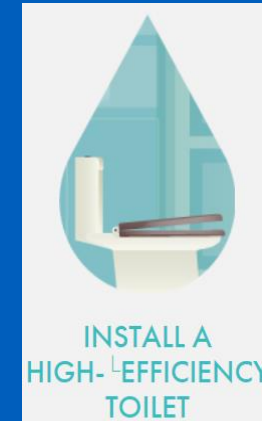
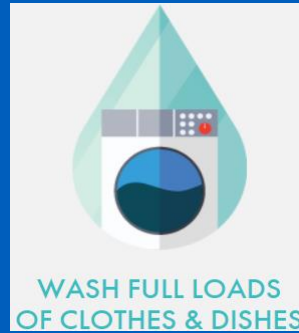
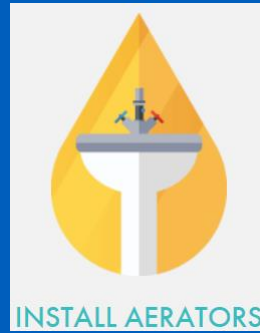
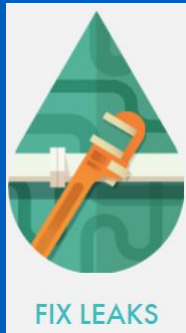


USE MULCH

Projects and Management Actions

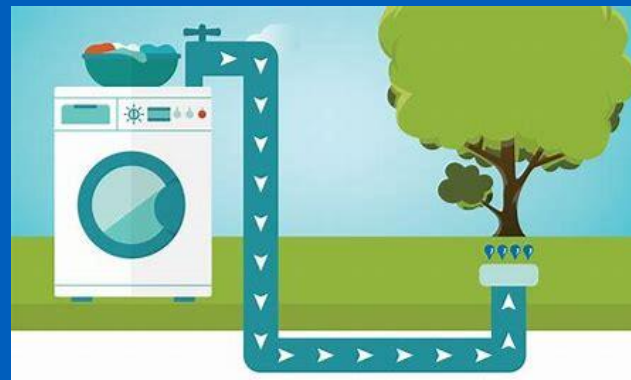
Project #2: Water Conservation and Efficiency

- **Municipal Sector (Indoor) 20% of water use is indoors**



- **Greywater Systems**

- Potential water savings: 40 gallons/person/day
- 30% less fresh water used on landscape



Projects and Management Actions

Project #2: Water Conservation and Efficiency

■ Recreational Sector

- Main Potential is for golf courses
- Potential Program:
 - Conversion of turf to native landscaping
 - Potential water savings: 471 AFY
 - Approximate cost of water saved: \$128/AF over 25 years
 - Irrigation System Management
 - Potential water savings: 203 AFY
 - Approximate cost: \$329AFY over 25 years



Projects and Management Actions

Project #2: Water Conservation and Efficiency

■ Other Conservation Actions

- Dedicated Conservation Coordinator
- Conservation Webpage
- California Water Efficiency Partnership
- School Education Programs
- Materials provided In Spanish

