



# ROARING FORK WATERSHED SUMMIT

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## *Roaring Fork Water Efficiency Plan*



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# REGIONAL WATER EFFICIENCY PLAN



- **Water Loss Control Technical Assistance**
- **Regional Water Efficiency Education and Information Campaign**
  - **Coordinated public outreach/communication campaign**
  - Business and HOA water efficiency challenge and awards
- **Reduce Outdoor Water Use**
  - **Regional model landscape ordinance for new landscapes**
  - Certification program targeting property managers & landscaping professionals
  - **Encourage rain sensor devices**
- **Improve Water Resource Management**
  - Linking water savings to environmental benefits
  - Mechanisms to protect water rights and enhance instream flows
  - Improved water accountability for raw water systems
  - Expand regional climate resiliency measures

# WATER LOSS CONTROL TECHNICAL ASSISTANCE



## ■ What is it?

- Auditing, loss tracking, infrastructure maintenance, leak detection and repair
- Water balance identifies real and apparent losses

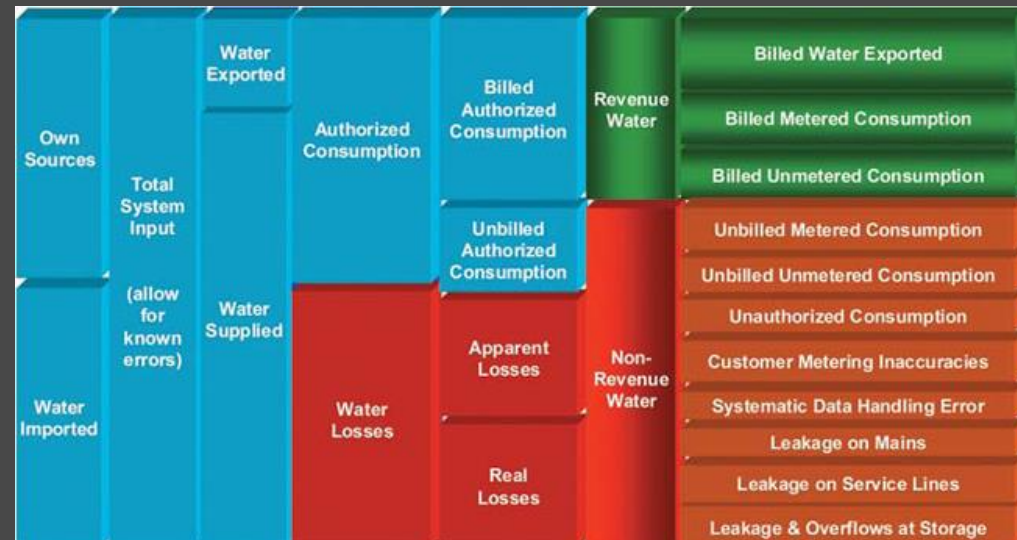


## ■ Cost / Benefit Analysis

- Drives implementation

## ■ Best Practice for Water Utilities

- AWWA M36 Manual of Water Supply Practices

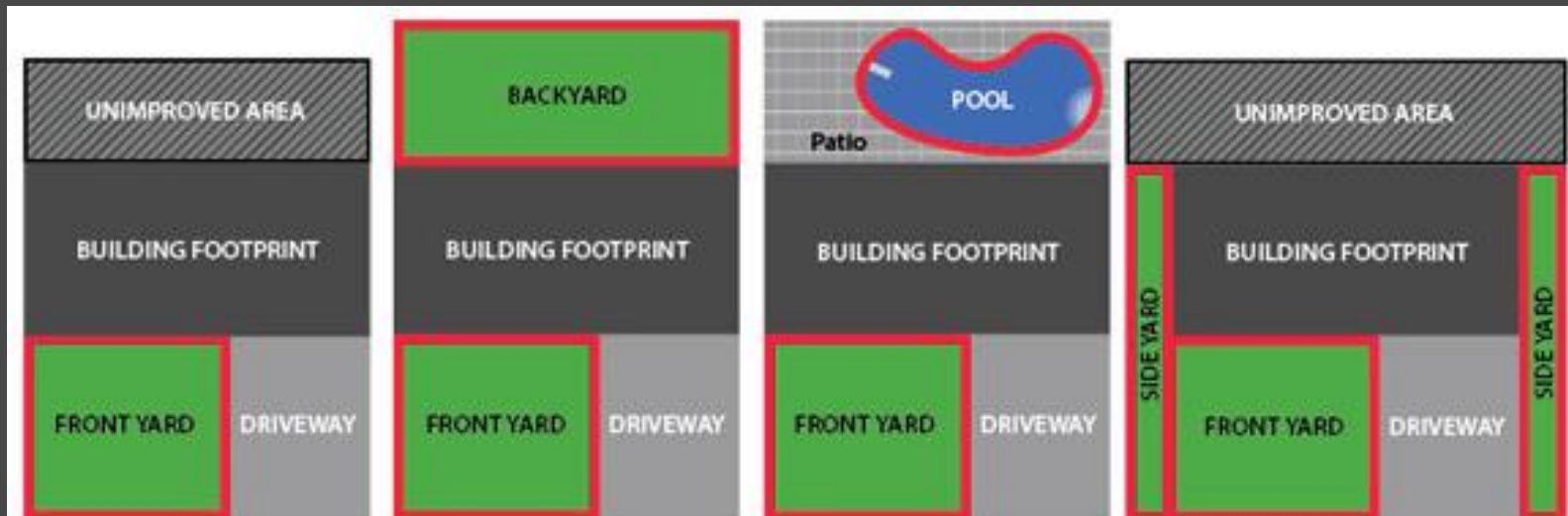


# REGIONAL MODEL LANDSCAPE ORDINANCE



## ■ What is it?

- Landscape Water Budgets
- Landscaping Design
- Irrigation Design, Install, Maintenance



# REGIONAL MODEL LANDSCAPE ORDINANCE

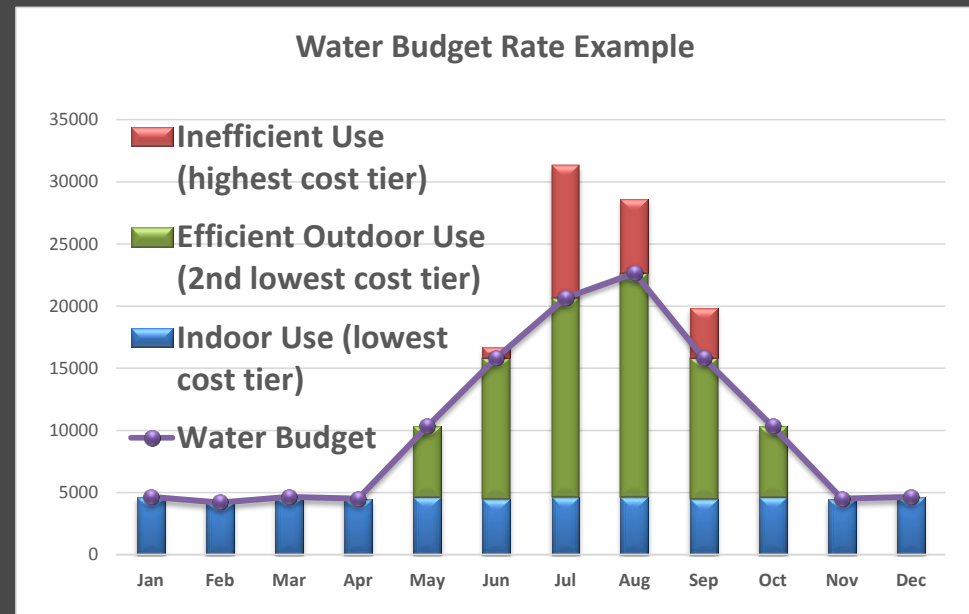


## ■ How Can it be Used?

- Customers: education and perspective
- Utilities: data for focusing programs
- Can be tied to water rates/tap fees
- Can be integrated with land use regulations
- Stormwater management

## ■ Examples

- DOLA, California
- Water utility/project specific



# RAIN SENSORS & SHUTOFF DEVICES



## ■ Rain Shutoff

- Reduce excess outdoor use by 25% to 40%
- Relatively inexpensive
- Particularly good for part-time residents
- Good for dispersed precipitation events



## ■ Soil Moisture Sensors

- More expensive, higher skill level to install
- May be more effective in a dry climate



# EDUCATION & INFORMATION CAMPAIGN



- Branding/Awareness
- Building Public Understanding
- Regional Messaging
  - Irrigation hours of day
  - Drought tolerant plant types
  - How much to irrigate
- Partnerships with Local Businesses, Non-profits, Schools



# REGIONAL PLAN SAVINGS AND COSTS



**Table 1. Summary of Estimated Water Savings and Costs.**

Program Measure	Estimated Water Savings at 2050 (AF/yr)		Estimated Annual Cost (\$)		Estimated One-Time Cost (\$)	
	Low	High	Low	High	Low	High
Water loss control technical assistance	400	600			\$ 5,000	\$ 20,000
Regional Water Education and Information Campaign	90	120	\$ 5,000	\$ 100,000		
Business and HOA Challenge and Awards	50	75	\$ 5,000	\$ 15,000		
Model landscape ordinance	80	100			\$ 0	\$ 10,000
Certification program	80	100	\$ 5,000	\$ 15,000		
Rain sensor device program	100	150	\$ 5,000	\$ 25,000		
Link Efficiency and Environmental Benefits	50	75	\$ 25,000	\$ 75,000		
<b>Total</b>	<b>850</b>	<b>1,220</b>	<b>\$ 45,000</b>	<b>\$ 230,000</b>	<b>\$ 5,000</b>	<b>\$ 30,000</b>





*Thank you for  
your time and  
commitment*



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