## **IRRIGATION PROCEDURES** To Improve Irrigation Efficiency

### Toni Monzón Bilingual Training Institute - BTI

# WHAT IS THE POWER OF WATER?



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Essential for the establishment and longevity of landscape plants.















# WHAT IS THE POWER OF WATER?



## WHAT IS THE POWER OF WATER?

In time, it deteriorates every surface it comes in contact with.







# POOR MANAGEMENT & DEFECTIVE SYSTEMS

#### 1. Costly deterioration of the community.





# POOR MANAGEMENT & DEFECTIVE SYSTEMS

#### 2. Creation of <u>high-risk</u> areas.



## **INFORMED DECISION**



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Determine ALL the expenses caused by the <u>inefficiencies</u> of the system:

1. To justify the investment in the irrigation system.



#### **INFORMED DECISION**

Determine ALL the expenses caused by the <u>inefficiencies</u> of the system:

2. To estimate the payback period.



#### Just look around the property!















































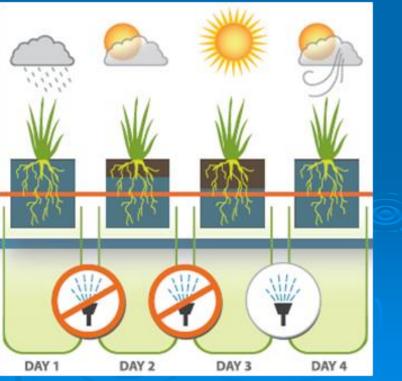
## PREVENTION



### PREVENTION

# Severe <u>damage</u> and <u>liability</u> can be prevented through:

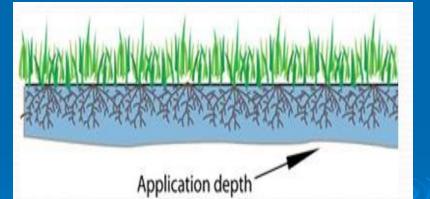
1. Sound irrigation practices.



### PREVENTION

# Severe <u>damage</u> and <u>liability</u> can be prevented through:

2. Efficient irrigation systems.



Example of a good DU

## 1. PREVENTION: SOUND IRRIGATION PRACTICES

# Does their installation result on sound irrigation practices?





Their installation does NOT result on sound irrigation practices:

- UNLESS...

1. Each valve zone is surveyed to collect the required field data.



#### 1) Water requirements of landscape plants.





#### 2) Microclimate.



#### 3) Root zone depth.





#### 4) Type of soil.



#### 5) Type of irrigation system.



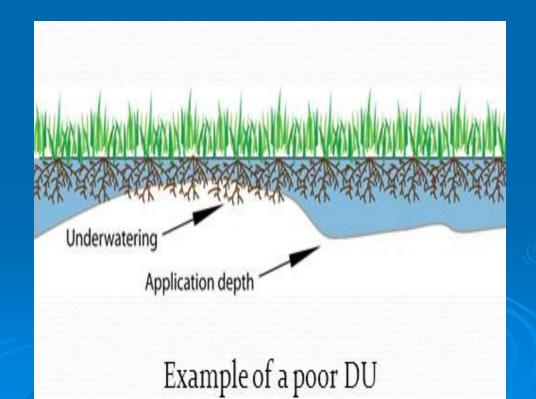






#### 6) System efficiency.

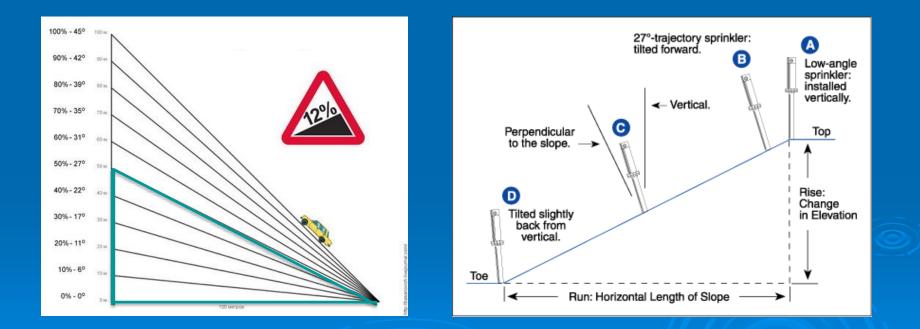




#### 7) System precipitation rate.



#### 8) Degree of slope / Sprinkler location

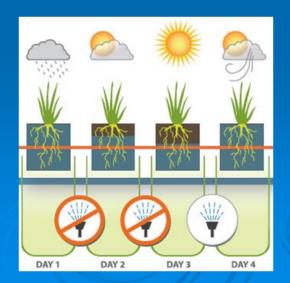


# 2. The field data is correctly programmed in the controller.





 The irrigation schedules are monitored for possible input errors.





4. The irrigation system is <u>inspected</u> regularly to maintain its efficiency.



# 2. PREVENTION: EFFICIENT IRRIGATION SYSTEMS

Does its installation increase the efficiency of irrigation systems?



Its installation does NOT increase the efficiency of irrigation systems:

- UNLESS...

1. The system is designed and installed correctly.



















2. The system is inspected regularly.











# Landscape renovations that do not address the irrigation system.





# Landscape renovations that do not address the irrigation system.

