IRRIGATION PROCEDURES To Improve Irrigation Efficiency

Toni Monzón Bilingual Training Institute - BTI

WHAT IS THE POWER OF WATER?



WHAT IS THE POWER OF WATER?

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



INFORMED DECISION

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!















































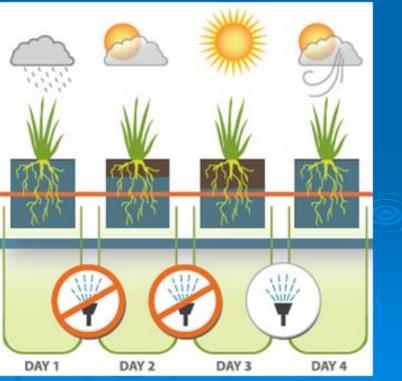
PREVENTION



PREVENTION

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

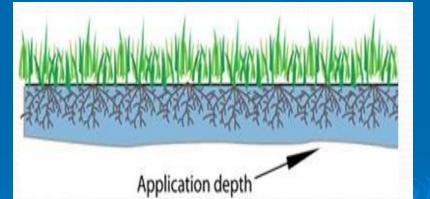
1. Sound irrigation practices.



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.



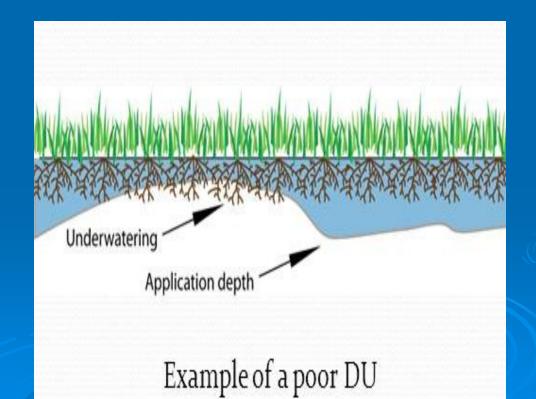






6) System efficiency.

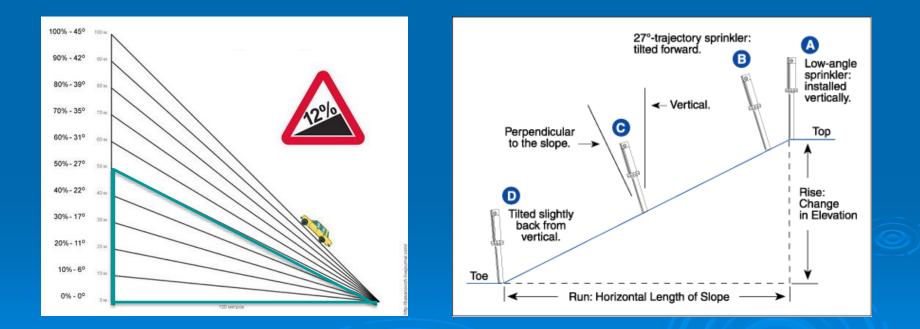




7) System precipitation rate.



8) Degree of slope / Sprinkler location

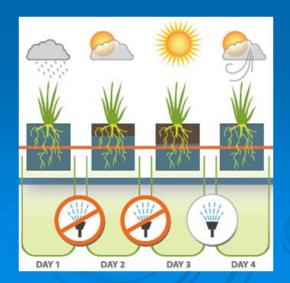


2. The field data is correctly programmed in the controller.





 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.

