

CTA Training Module 4 – Part 1 - Water

Key Concepts

1. Hydrologic (Water) Cycle – Be able to draw
2. Watershed – Be able to describe and/or draw
3. Be able to name at least three (3) local watersheds in your region
4. Know reasons why a watershed needs to be managed
a. To protect our Water Supply
b. To improve Water Quality in our streams, rivers and in our groundwater
c. To reduce pollution from Stormwater Runoff
d. To minimize soil erosion from construction or following wildfires
e. Mitigate pollution from fertilizers
5. Definition of Water conservation

Key Concepts Continued

6. Be able to name at least three (3) Water Conservation practices

7. What is "grey water"?

8. What is "reclaimed water?

9. Be able to name and describe two (2) methods of using "grey water" for landscape irrigation

10. Be able to name at least 3 principles that should guide landscape and irrigation design

11. Know the relative percolation rate differences between soils of different soil texture:

a) Clay
b) Sandy Loam
c) Sand

12. Be able to define "percolation"

Key Concepts Continued

13. Know why filters are so important in irrigation systems, especially low flow or drip irrigation installations

14. Know the function of a"backflow preventer"

15. Know why a pressure regulator is needed on drip or low flow irrigation system installation

16. Know the difference between pressure pipe and non-pressure pipe in irrigation installation

17. Know why it is important to properly apply solvent on pipe fittings when installing irrigation systems

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Key Concepts Continued

18. Know why it is important to be able to adjust the radius and arc of a sprinkler's spray

19. Know why it would be important to have automated irrigation controllers that can be adjusted from a central computer or from a wireless device in the field

20. Know why it is important to connect irrigation controllers to soil moisture sensors and/or a rain gauge. Can this be considered a water conservation practice

Hydrologic Cycle

Trespot

Condensation

Principal for

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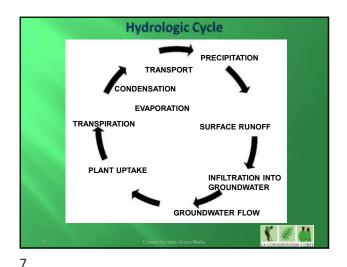
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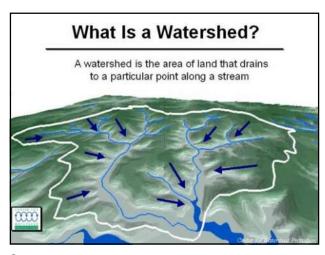
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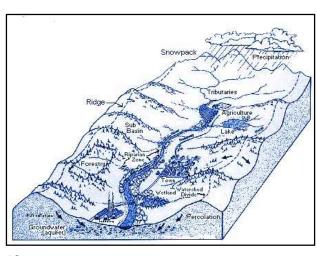
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Water Conservation Definition

Any beneficial reduction in:

1. Water use or

2. Water losses

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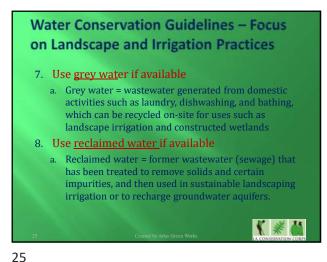


Water Conservation Guidelines – Focus on Landscape and Irrigation Practices
 Design irrigation to eliminate overspray onto adjacent hardscape
 Water in early a.m. before sunrise & avoid watering on windy days if possible
 Divide irrigation system in zones with plants with similar water requirements

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Atlas Green Works

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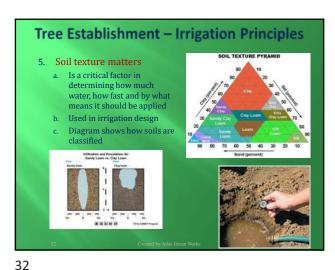
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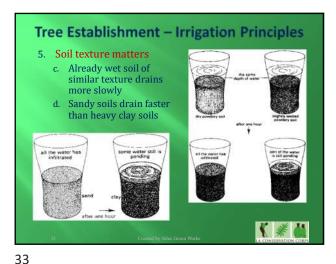


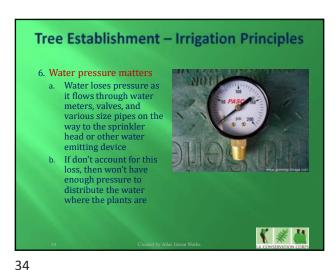


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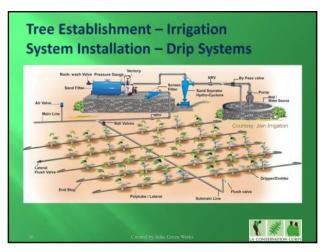






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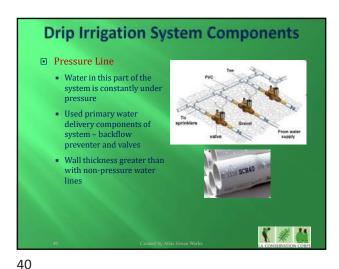
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