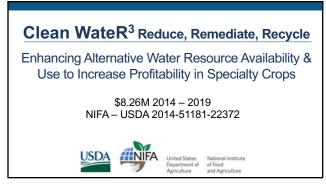




1

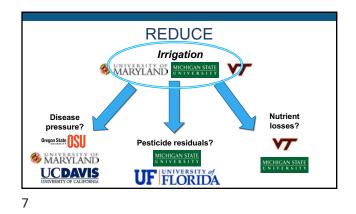


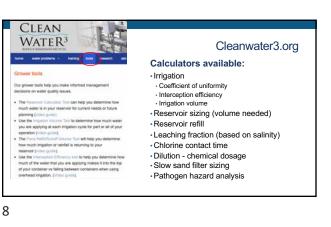
Purpose of the Clean WateR³ project

Ensure water does not limit grower economic sustainability



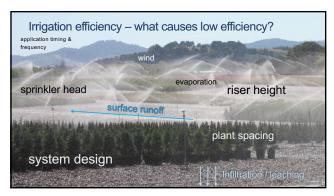
- conservative use of water resources
- mitigate environmental impact
 use viable alternative
- water resources

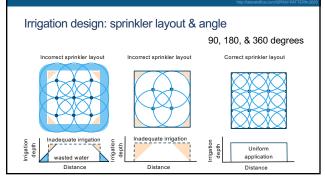








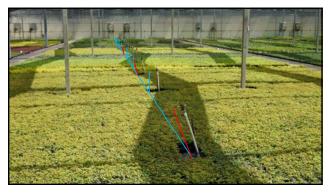


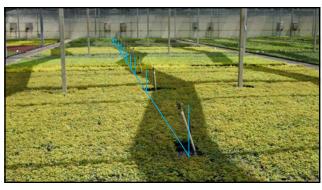


Irrigation Efficiency

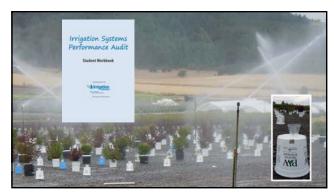
The ratio of the volume of water taken up by plants to the volume pumped or delivered for use.

System type	Range (%)	Average (%)
Sprinkler irrigation systems		
Solid set systems - field production	70 - 80	75
For container nurseries	15 - 50	20
Micro-irrigation systems		
Surface	70 - 90	85
Spray systems	70 - 85	80

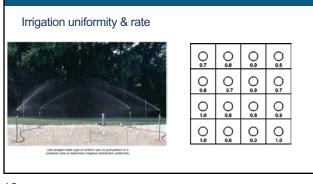






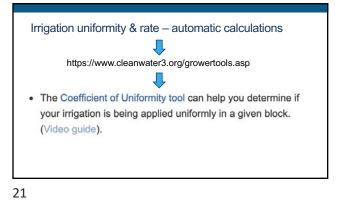


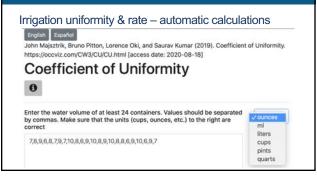


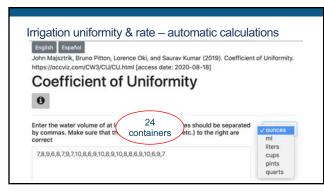


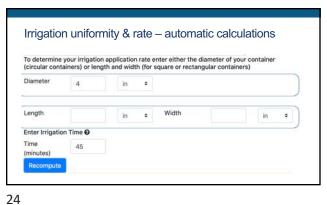
Irrigation uniformity & rate - measuring example • Catch cans spaced between 4 Ο Ο Ο Ο sprinklers in a square grid pattern 0.0 0.5 Ο Ο Ο Ο Value below each circle = depth / . 0.8 0.7 0.9 0.7 volume captured per unit time 0 0 0.5 0 (hour) at that location 0 0 0 0 $(0.7 + 0.8 + 0.9 + 0.6 + \dots + 0.9 + 1.0 + 0.8 + 0.9 + 1.0) / 16 = 0.83 in/hr$ Slide adapted from Matt Chappell, UGA 20

19



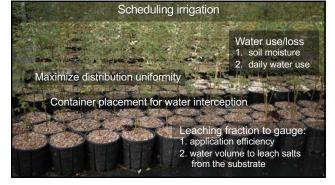






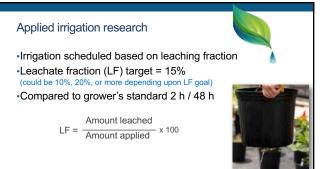
rrigation uniformity & rate – auton	
Mean value of volumes entered:	
8.08 ounces	
Computed coefficient of uniformity: 86.4 %	
Rate of application	
1.548	
inch/hr	











Amy Fulcher - UT

