

Regulatory Precipitation Rate Limits

Water Saver or Waster?

Ron Wolfarth

The Intelligent Use of Water.™

LEADERSHIP • EDUCATION • PARTNERSHIPS • PRODUCTS

Do You Like Chocolate?

- Tastes Great!
 Makes Me Happy
- Easy to FindInexpensive



Chocolate For Every Meal?

- Doesn't taste THAT great!
- Makes me sick now.
- Makes me fatter.
- I hate Chocolate!



What is Precipitation Rate?

PR =

GPM X 96.3

Head Spacing X Row Spacing

 Rate at which irrigation applies water to the landscape



Is Low PR Good or Bad?

- That is not the Question!
- Good Sometimes
- Not Good Others
- Real Question:
- All the Time Or Not?



What Is 'Good' About It? (Regulator POV)

 More Closely Matches the Soak-In Rate

Reduces Runoff

- Easier to Inspect/Plan Check
- Forces the "Right" Behavior



What Is Not Good? (Real World POV)

University of Arizona

- Wind Drift &
 Evaporation Losses
- California State
 Polytechnic
 University Pomona
 - 2/3 of Total Losses
 - No Runoff With Cycle+Soak



Should Low Precipitation Rate be Required ... At All Times?

- Some Regulators Want This!
- Believe It Saves Water!
- Don't See the Potential Water Losses



Does It Save Water?

Show Me The Science!

- California State Polytechnic University – Pomona
 - 2/3 of Loss = Wind Drift & Evaporation;
 - No Run-off with Cycle+Soak Programming
- Eugene Water and Electric Board
 No Savings
- Inland Empire Utilities Agency
 2% Greater Water Use
- Municipal Water District of Orange County
 10% Savinge
 - 10% Savings
- Southern Nevada Water Authority
 - No Savings
- University of Arizona

 12% More Wind Drift & Evaporation Loss
 With Low PR



Conclusions

- Reduces Some Runoff
- Can be Wasteful
- Does Not Reduce
 Water Use
- MSMT May Mitigate Some Losses
- Don't Ban More Efficient Products



Conclusions

- Like Chocolate, Low PRs Are Good in Moderation
- Low PRs Should Not Be Required by Law
- Industry Should Oppose PR Limit Regulation





Ron Wolfarth <u>RWolfarth@RainBird.com</u> (520) 907-0682 Cell

The Intelligent Use of Water.[™] — LEADERSHIP · EDUCATION · PARTNERSHIPS · PRODUCTS

© Rain Bird Corporation