

Mobile Apps and Data-Driven Water Savings

PAST

Mobile App / Wi-Fi Controller

ET / Weather Data

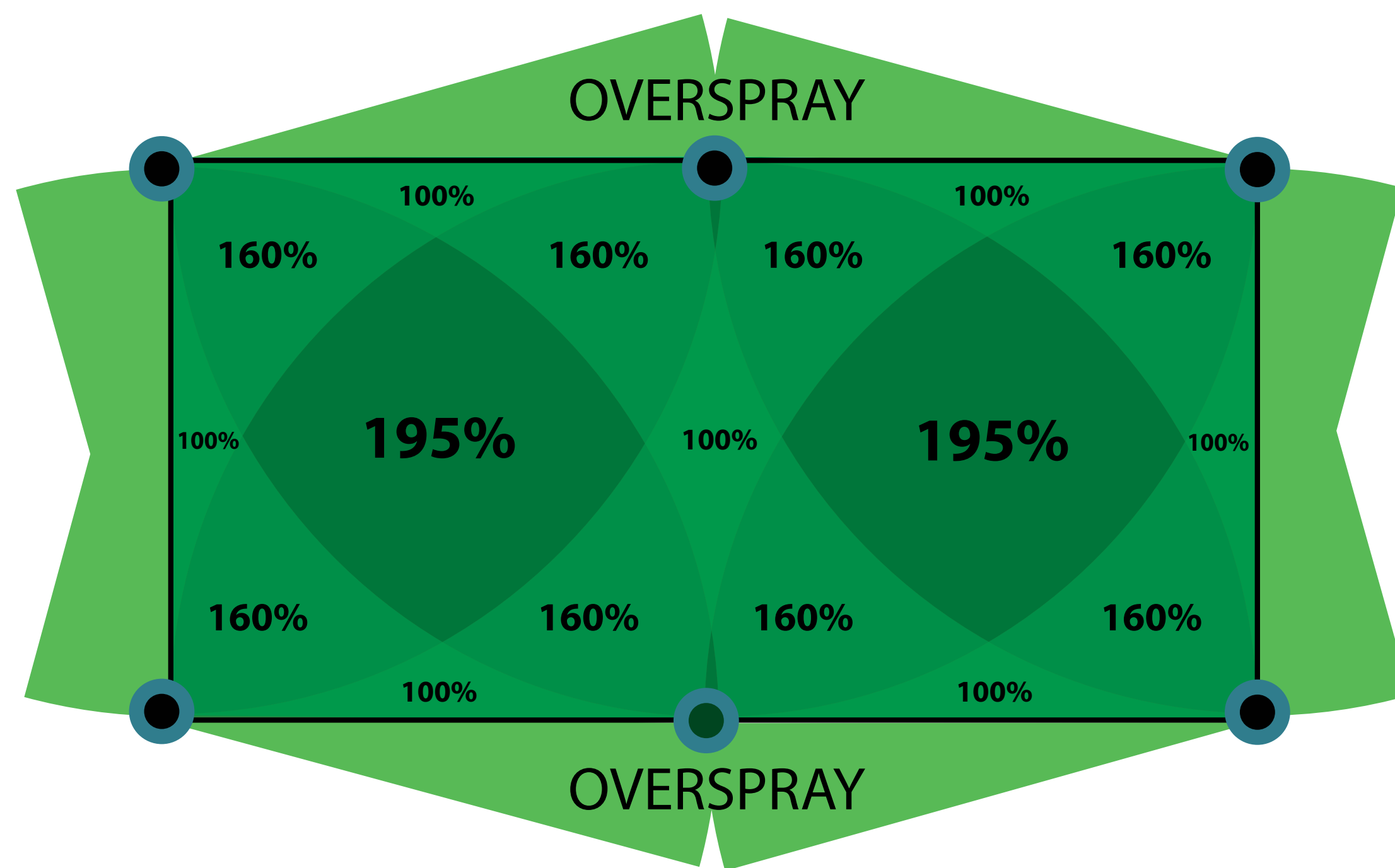
System adjusts run times

Mechanical Sprinklers

- Manually calculate precipitation rates
- Precipitation set in minutes

20% Water Savings

Mechanical Sprinkler Water Distribution
 .65 DU – “Good Quality” Irrigation System¹



75% overlap, 15% overspray²

“Sprinklers do not deliver a uniform quantity of water over their distribution area.”

Whiting, David, *Watering Efficiently*, CMG Garden Notes, 2017

PRESENT

Mobile App / Wi-Fi Controller

Digital Zone Map Data

Flow Data

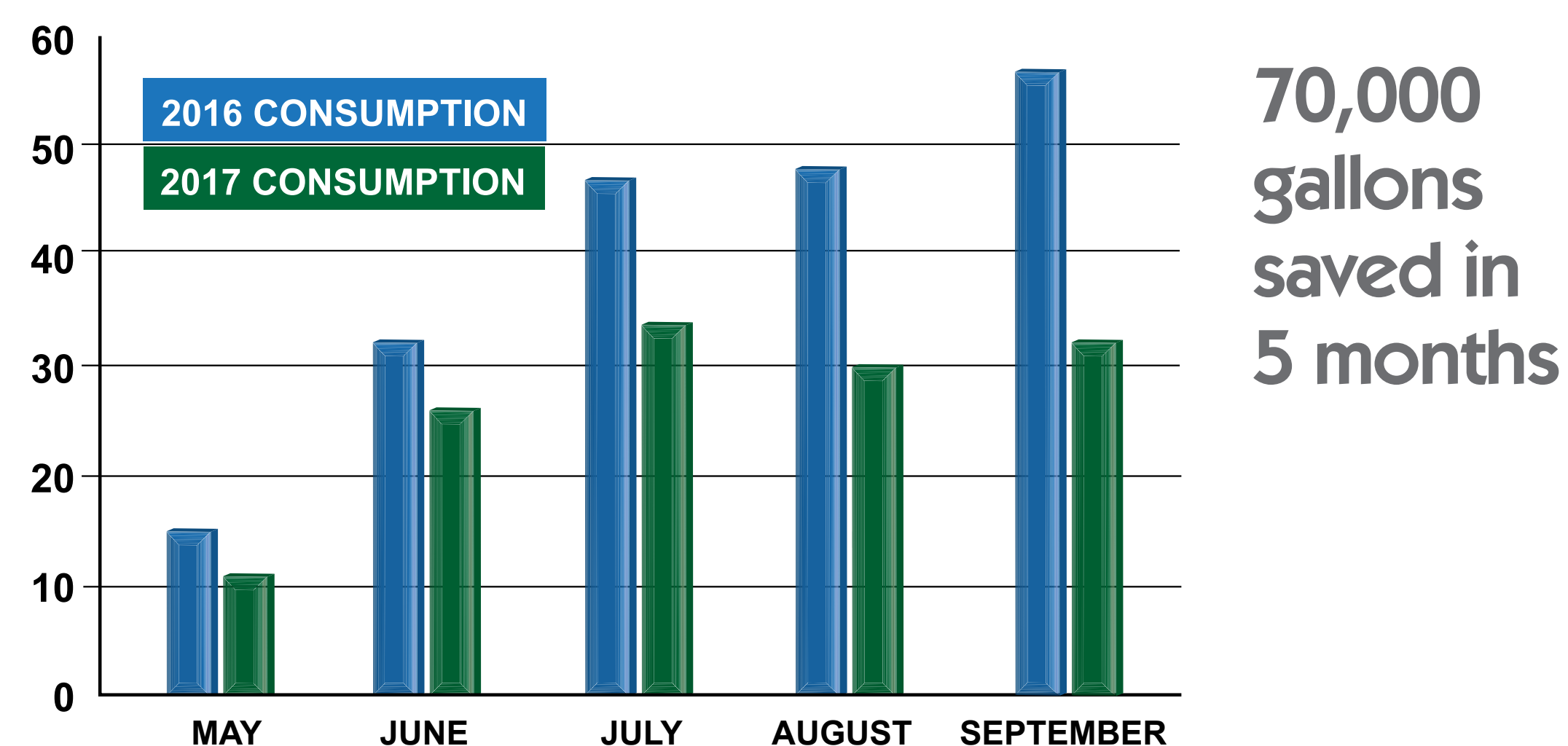
Digital Sprinklers

- Uniformly water to zone map, any shape
- Precipitation set in inches of water

40% Water Savings

Digital Sprinkler Upgrade: Twin Falls, ID

Usage History - Twin Falls Water Department



2016

38 MP Rotators®
 Rachio® Controller
 70% Uniformity

2017

5 IrriGreen® Heads
 IrriGreen Controller
 EcoZone™ Uniformity



- 1 • Digital sprinklers water to zone map
- 2
- 3 • CIT study: digital sprinklers use 40% less water
- 4
- 5

FUTURE

Mobile App / Wi-Fi Controller

Digital Zone Map, Flow and ET Data

Digital Sprinklers

Water Budget / Efficiency Data Feedback

- Create real-time water budgets with digital zone map and ET data
- Compare flow data to water budget
- Adjust precipitation to match/beat water budget
- Real time alerts
 - a) Leaks
 - b) Sprinkler maintenance
 - c) System performance
- Flow data analytics
- Calculate irrigated turf area

50% Water Savings

¹ Mecham, Brent, *Using DU to Evaluate Quality of a Sprinkler System*, 2004

² Table 2: *Water Waste from Typical Irrigation Inefficiencies*, www.allianceforwaterefficiency.org (September 2017)

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One Sprinkler per Zone. EcoZone™.