

This presentation premiered at WaterSmart Innovations

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**Controlling Water Usage on
School Landscapes**
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Procedures

- 1. Site Information**
- 2. Zone Data**
- 3. Run Time Schedules**
- 4. Implement**
- 5. Compare water usage to past water department bills per area**

Site Information

- I. General School Information
- II. Turf
- III. Plant Material
- IV. Hydrology
- V. Controllers & Communication

Site Information

General School Information

- **Site:**
- **Date:**
- **Address:**
- **Staff:** (custodian, principal, etc.)
- **Contact Links:** (phone #'s, email)
- **Prepared By:**

:

Site Information

Turf

- **Variety of Grass:**
 - 2 Soil Samples and Root Zone
- **Acres or Square Footage of Turf:**
 - Note slope, shade, and hard to water locations

Site Information

Plant Material

- **Define Plant Material:**
- **Irrigated with turf or independently:**
 - **Note specifics of beds (i.e. spray, drip, etc.)**
- **Soil type in garden beds if different than turf:**

Site Information

Hydrology

- Potable or Non-potable Water:
- Water Meter:
- Service Line Size:
- Pump:
- Pump Size and specifics:
- Back Flow Size (RP) and Water Pressure at Backflow:
- Master Valve / Hydrometer:
- Size of Master Valve / Hydrometer:
- Main Line Size:
- Flow Sensor:

Site Information

Controllers and Communication

- **Controller Make, Model, and Location**
- **Number of Controllers:**
- **Central or Stand Alone:**
- **ET Based:**
- **Weather Information: (location, type)**
- **Grounding: (lightning protection)**
- **Number of Stations Turf:**
- **Number of Stations Drip:**
- **Remote Control:**
- **Sensors: (Rain Can, Wind, Flow)**
- **Communication system (i.e. Ethernet, Radio, etc.)**

Zone Data

Zone	Location	Heads	Head Type	Arc	Nozzle	Head GPM	Zone GPM	PSI	Pattern	Precip. Rate	Comment
1	NW Corner Building	8	Hunter I-25	180	Green	11.1	89	60	Rect.	.79	Full Sun, Children Play area
2	East Parking Island Teachers Parking	15	RB 1804	360	15'	3.70	55.5	30	Rect.	1.58	Shade, 12% Grade

Site:
Controller:
Date Updated:

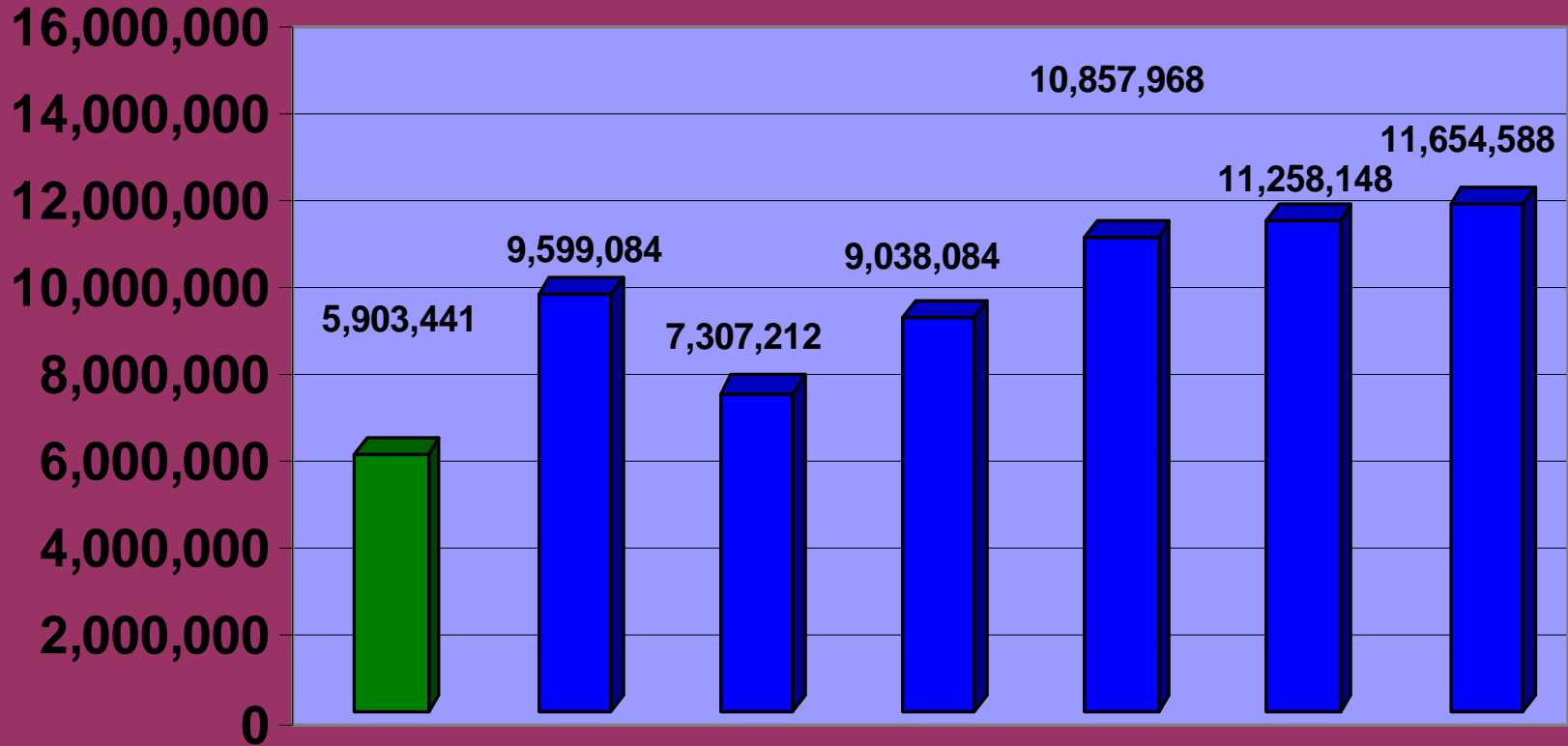
Zone	Precip. Rate	Cycle Run Time	Total Run Time	April	May	June	July	Aug.	Sept.	Oct.	GPM	Gallons Per Cycle
1	.60	18.63	75	15.07	3.86	3.05	2.86	3.11	7.56	33.25	80	6000
2	.79	18.63	52.58	15.07	3.86	3.05	2.86	3.11	7.56	33.25	90	4732

High School

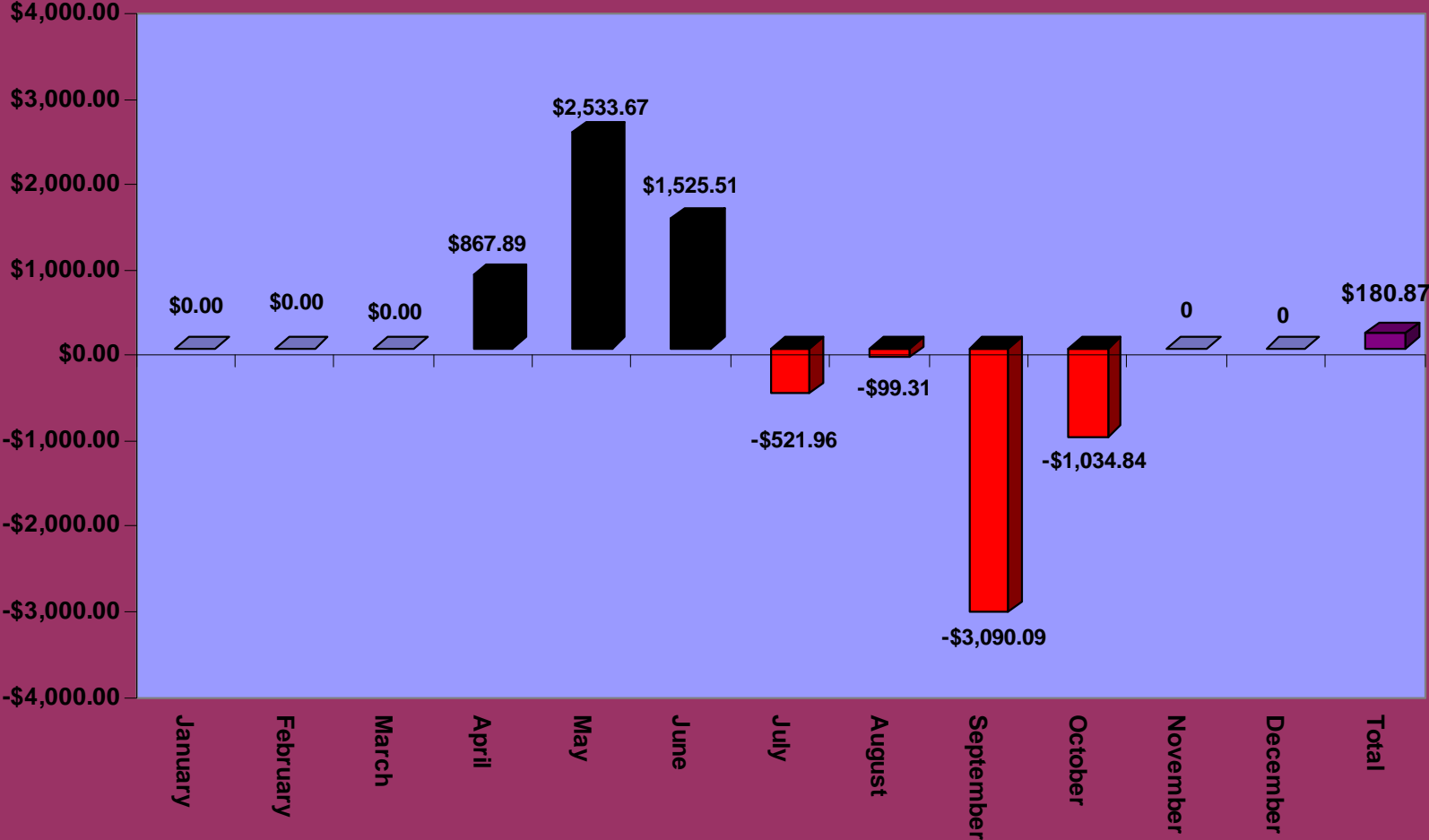


Elementary 2007

Gallons



Elementary 2007



Review of Procedures

1. Site Information
2. Zone Data
3. Run Time Schedules
4. Implement
5. Compare water usage to past water department bills per area



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- 1980 B.S. Geology, University of Utah
- 24 years landscape management and irrigation experience
- CID , Certified Irrigation Designer by National Irrigation Association
- CLIA, Certified Landscape Irrigation Auditor by National Irrigation Association
- Utah Landscape Contractor
- CIC, Certified Irrigation Contractor by National Irrigation Association
- Central Control operator / owner 3 years
- Attending ITT Technical Institute studying Electronics and Technology