


Southern Nevada Water Authority (SNWA)

Water Efficient Technologies Program

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**SAVE WATER
SAVE MONEY**

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Water Efficient Technologies Program -- W.E.T.

The SNWA provides
incentives for customers
to find their *own* creative solutions
to conserve water.


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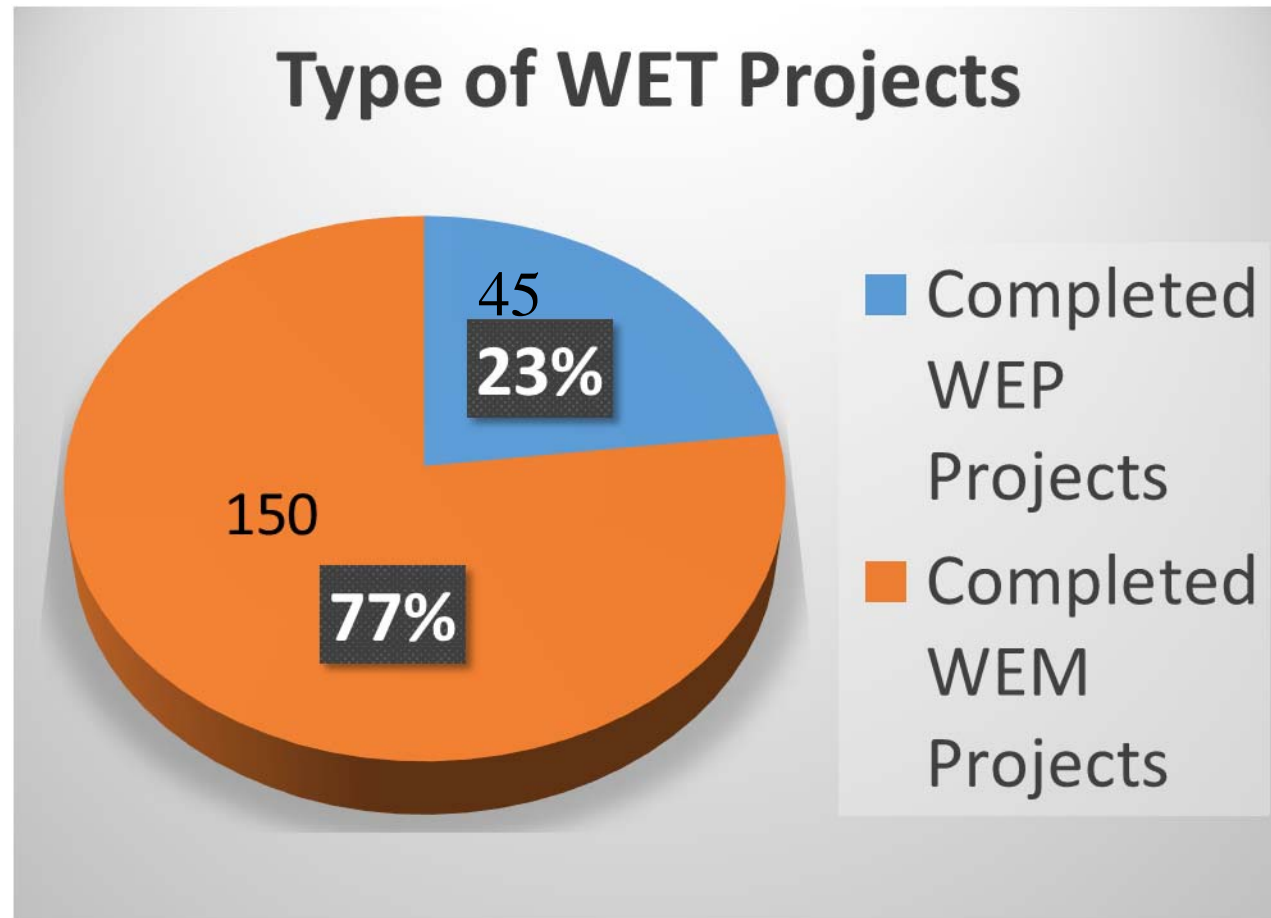
W.E.T. program

- Program is designed to encourage capital improvements that can result in saving **at least 100,000 gallons per year**
- Incentive of up to **\$50,000** per property per fiscal year (customers can phase projects across multiple fiscal years_)
- Two Program Tracks:
 - Menu Item – Select from a list of pre-approved technologies with assigned incentive values
 - Performance-based – For custom conservation solutions (rebate contingent on performance)


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W.E.T. program

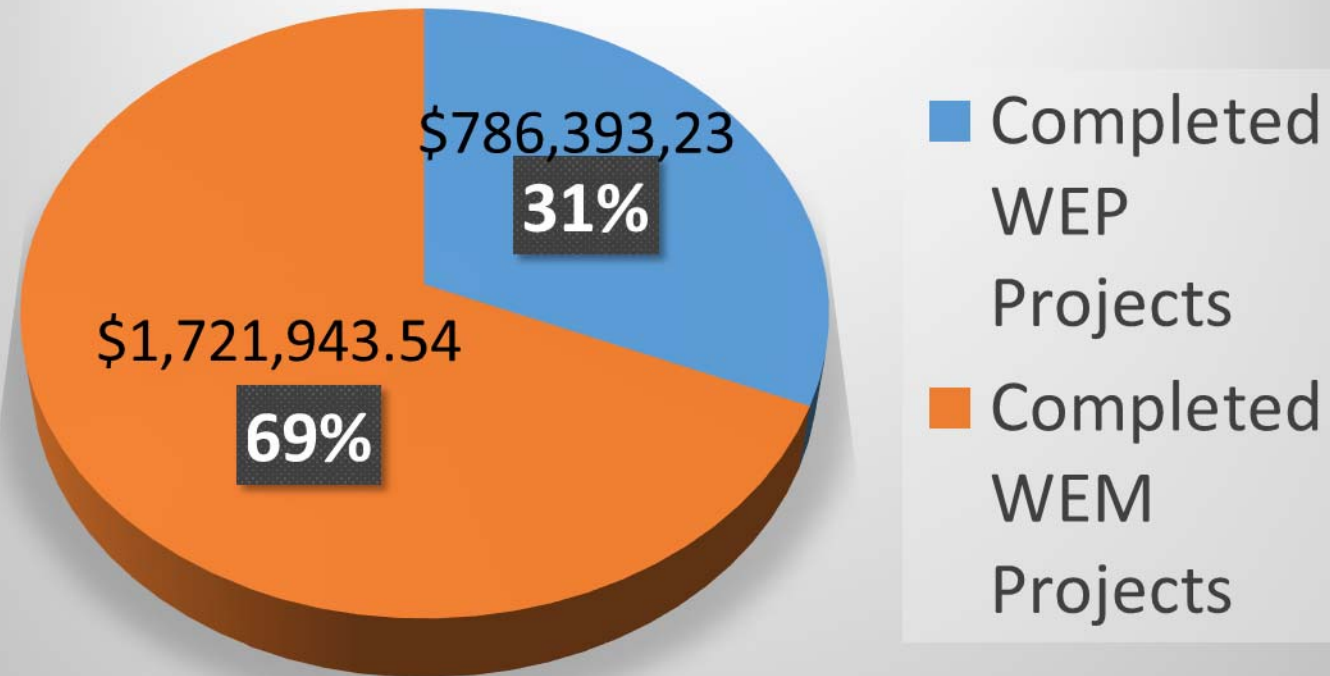


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W.E.T. program

Expenditures per Track



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W.E.T. incentive levels



- Up to \$8.00 per 1,000 gallons conserved annually for non-consumptive water saving technologies (most *indoor*)
- Up to \$25.00 per 1,000 gallons conserved annually for consumptive water saving technologies (most *outdoor*). We pay this premium because it actively helps to extend our supplies.


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Menu-item applications

- Applicant selects from a list of pre-approved technologies available from SNWA
- List includes minimum project sizes and assigned per unit incentive values
- May combine across multiple locations for the same business to reach minimum project thresholds
- Options for new and retrofit applications for select technologies
- Easy and Fast!
No performance period or additional research requirements

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Menu Items

- High Efficiency Toilets (HETs) and Urinals (HEUs).
We recommend WaterSense
- Waterless Urinals
- High efficiency showerheads (including WaterSense)
- Converting sports-field turf to artificial play surface (typically artificial turf)
- Retrofit water-cooled air conditioning to dry conventional A/C
- Retrofit standard cooling tower controllers with more sophisticated efficient models with a proven record



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Menu Items

- Retrofit cooling towers with high efficiency drift-elimination technologies
- Convert older washing machines to Energy Star labeled models
- Convert washer-extractors to tunnel washers
- Use Energy Star qualified steamers and combo ovens
- Install/convert older high-capacity dishwashers to modern high-efficiency models



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Customized performance-based solutions



- SNWA evaluates suitability of project and available information about savings potential
- SNWA makes a projected savings estimate
- After program acceptance and technology installation there is a six-month monitoring and evaluation period
- After six months, SNWA awards the appropriate incentive based on the performance, the corresponding incentive rate, and the purchase cost
- More appropriate for technologies that are untested or when it's difficult to estimate savings


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Other requirements

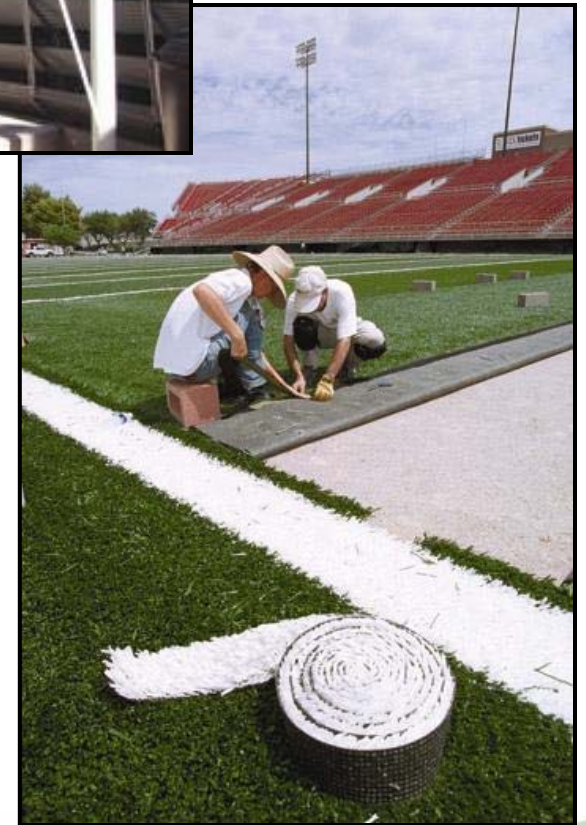
- 10-year minimum life cycle (released for future improvements)
- Pre-installation inspection to qualify
- Post-installation inspection to confirm installation
- Incentive will equal the menu item value calculated amount, up to 50 percent of the product purchase price (excl. labor)
- Six month period to install after acceptance
- SNWA final authority on acceptability of a project

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Popular W.E.T. applications

- High-efficiency indoor fixtures
- Artificial turf for sports surfaces
- Cooling tower improvements
- On-site water reuse systems



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CR Improvements Observed

<u>Measure</u>	<u>Start CR</u>	<u>End CR</u>	<u>Improved</u>
Acid Injection	2.33	3.91	1.58
Ozonation	2.15	3.17	1.02
Advanced Controls	1.85	3.25 – 4.5*	1.40
Improved Mgmt. Only	3.19	3.70	0.51 (at least?)

* Tagged Dispersal Polymer-based Control


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Cooling Tower Successes

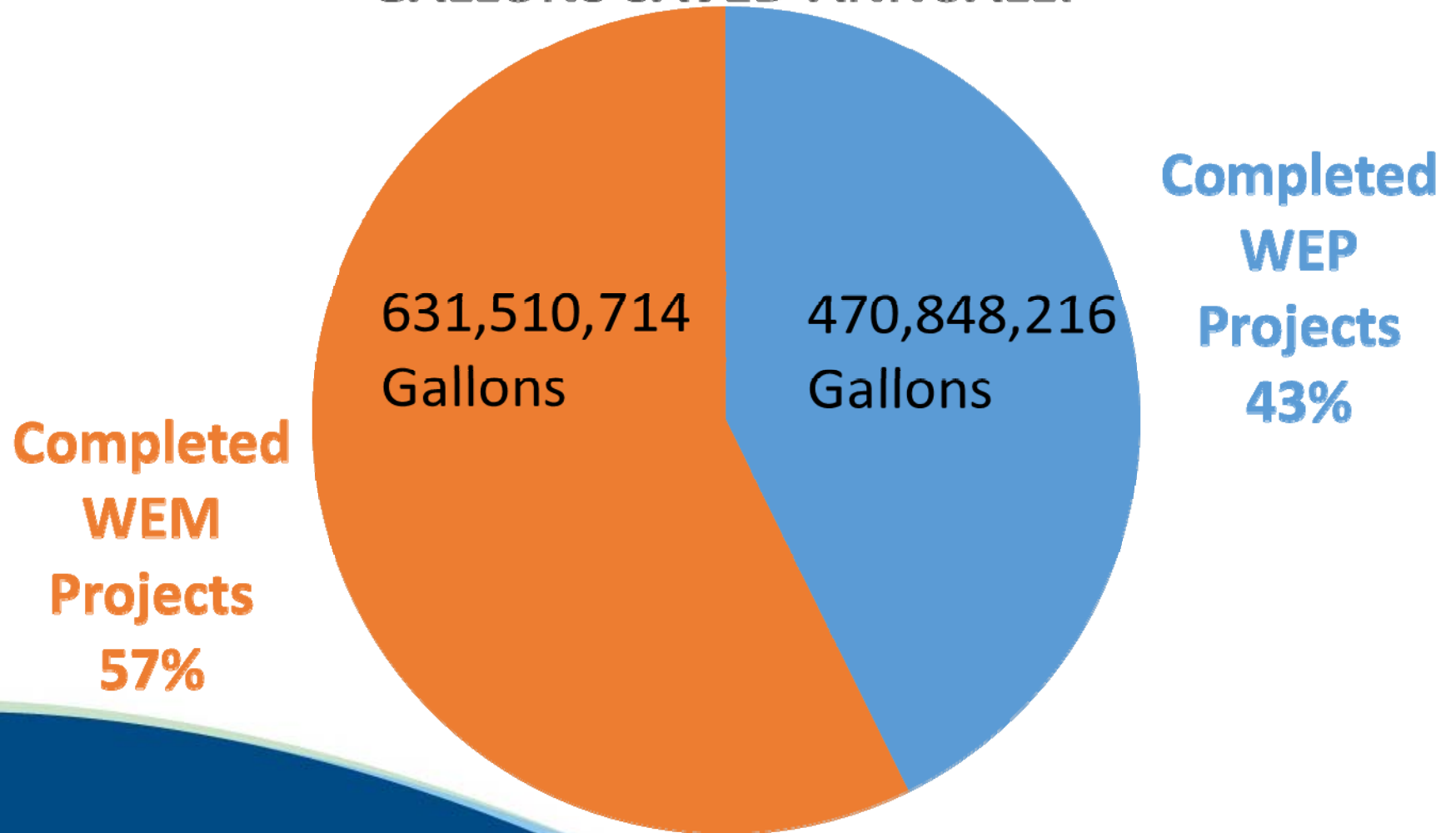
- Have raised W.E.T. program participants concentration ratios from 2.22 average to 3.45.
- This is a savings of 673,760 gallons for every 100 tons of cooling capacity.
- The average facility participant has saved 17.7 million gallons annually.
- This equates to a 45% savings in blow down water.

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W.E.T. savings

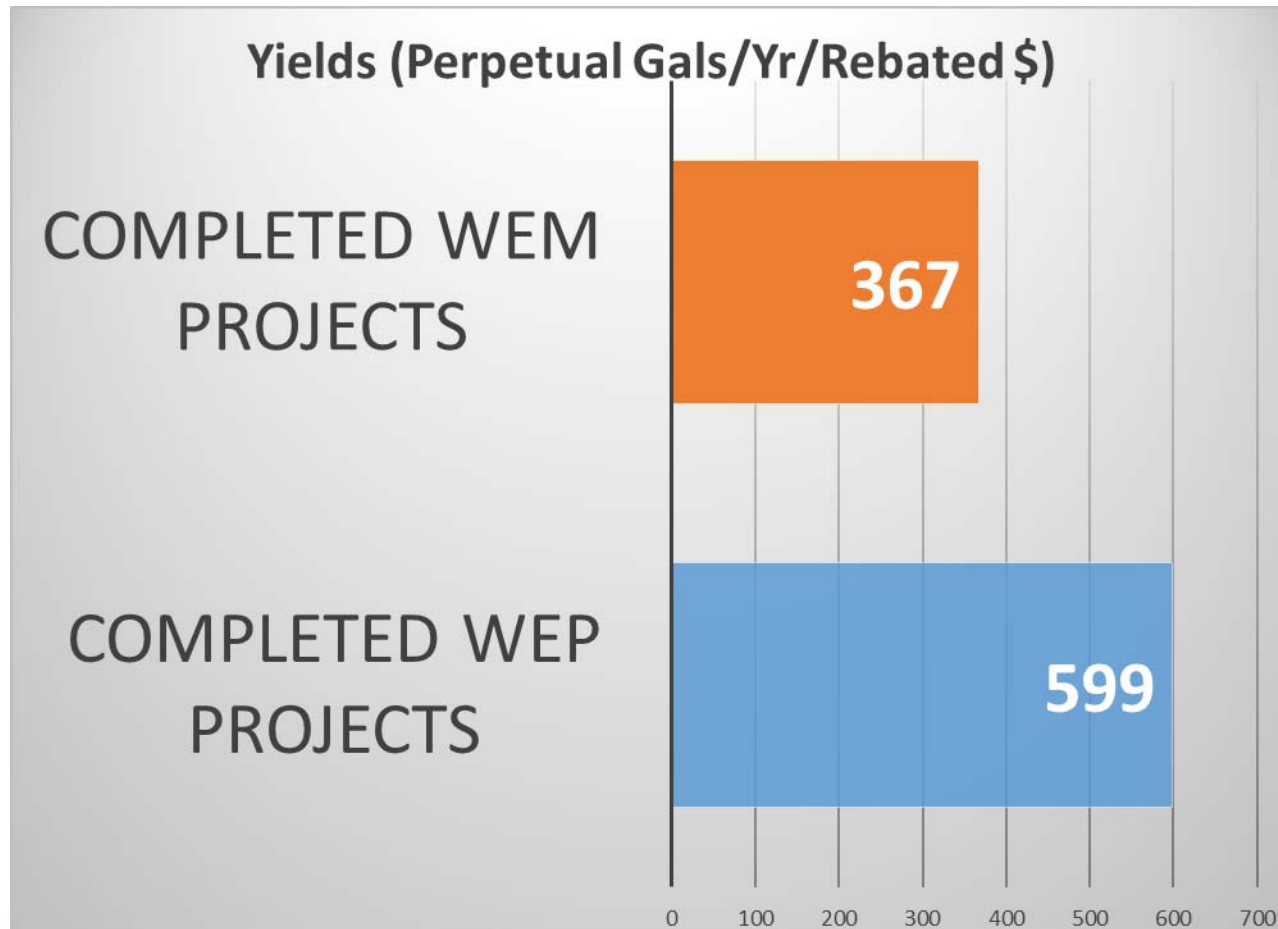
GALLONS SAVED ANNUALLY




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W.E.T. savings

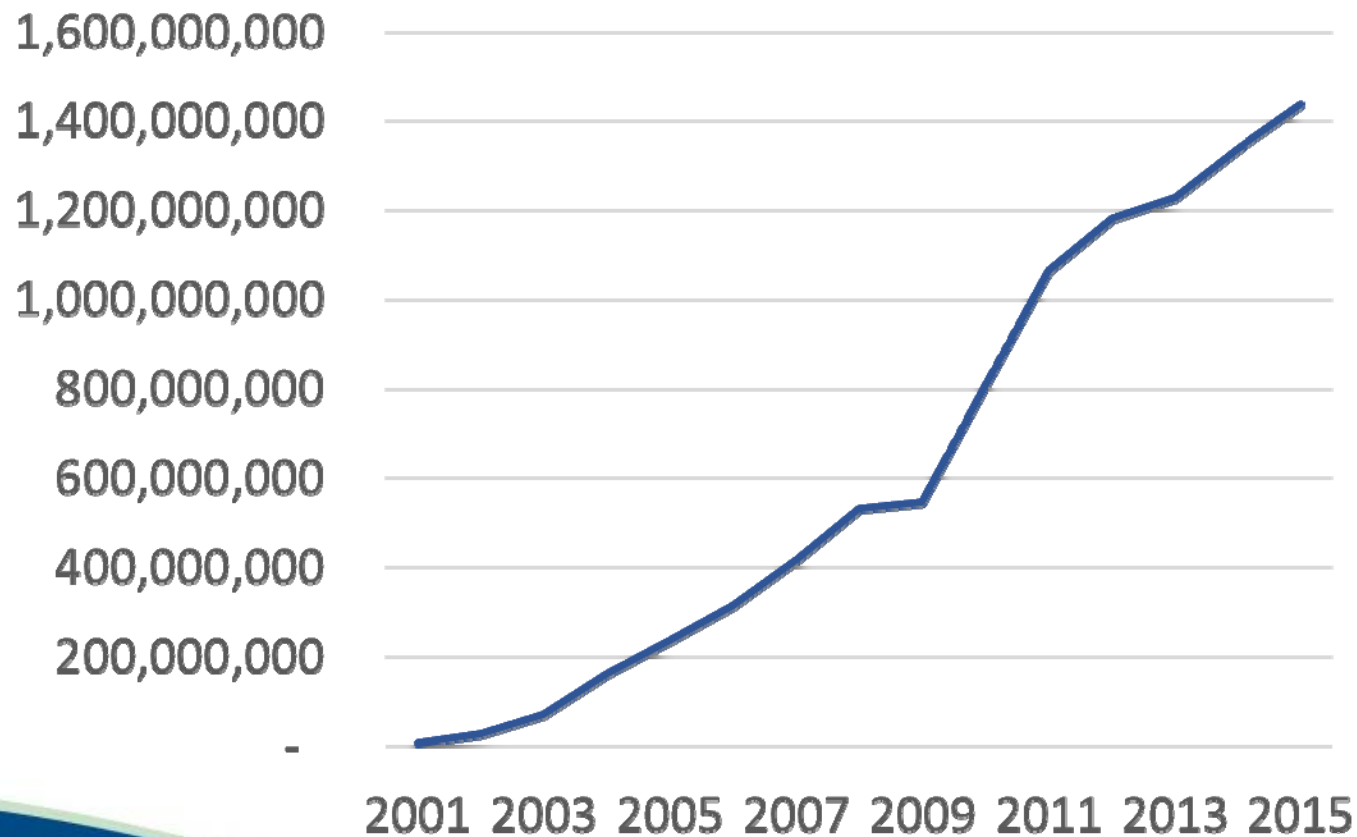


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W.E.T. Savings

W.E.T. Program Gallons Saved Annually



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W.E.T. Savings

- Annual Yield (Savings) now at 1.44 billion gallons.
- Difficult to envision.
- What does this equate to?



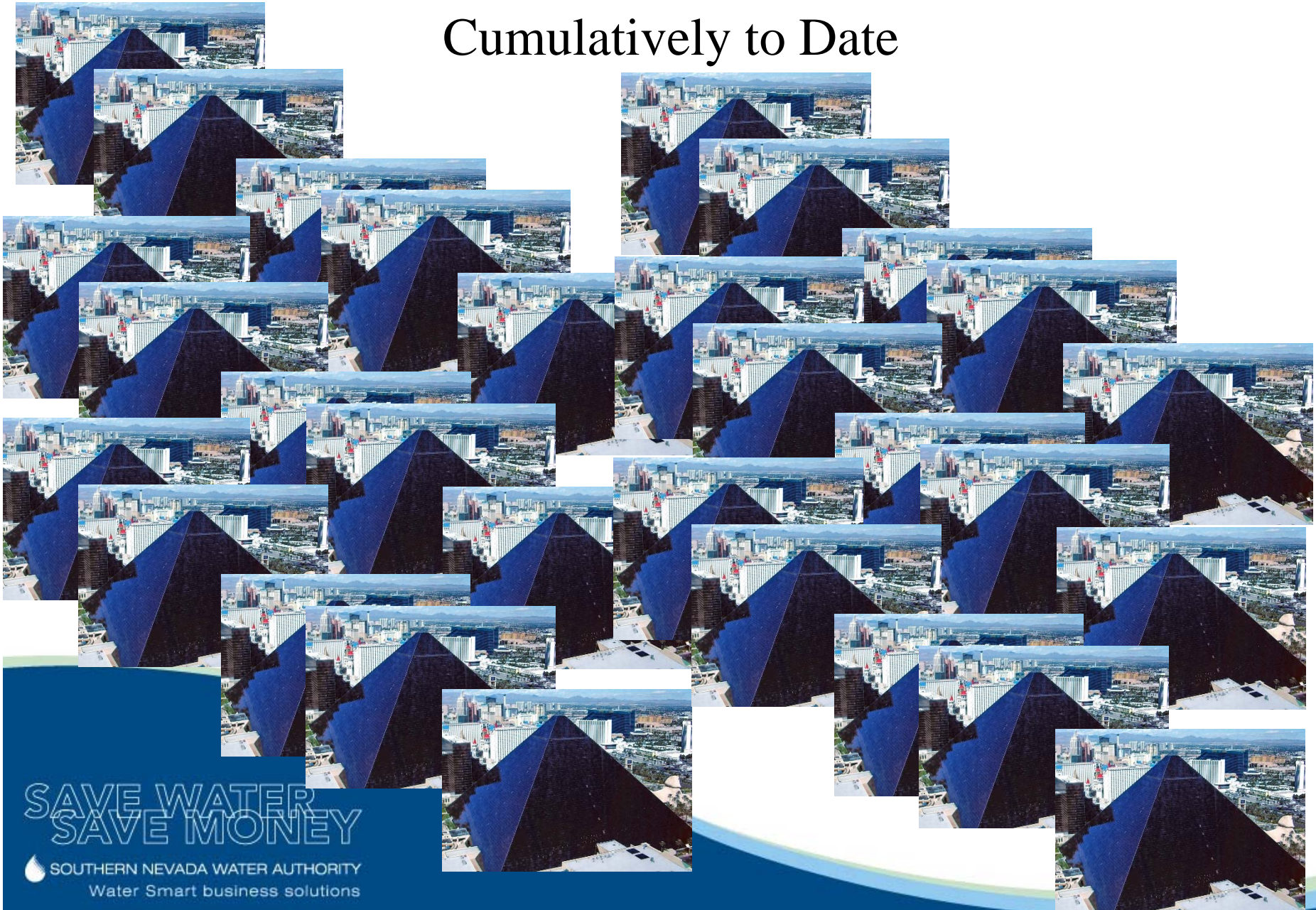
And remember this is per year . . .

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W.E.T. Savings

Cumulatively to Date




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Questions?

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