

WATER UNIVERSITY

RESEARCH, PUBLIC OUTREACH AND CONTINUING EDUCATION

WATER USE EFFICIENCY IN THE URBAN ENVIRONMENT

WaterUniversity.tamu.edu









8,000 Square ft Teaching space for 300 attendees





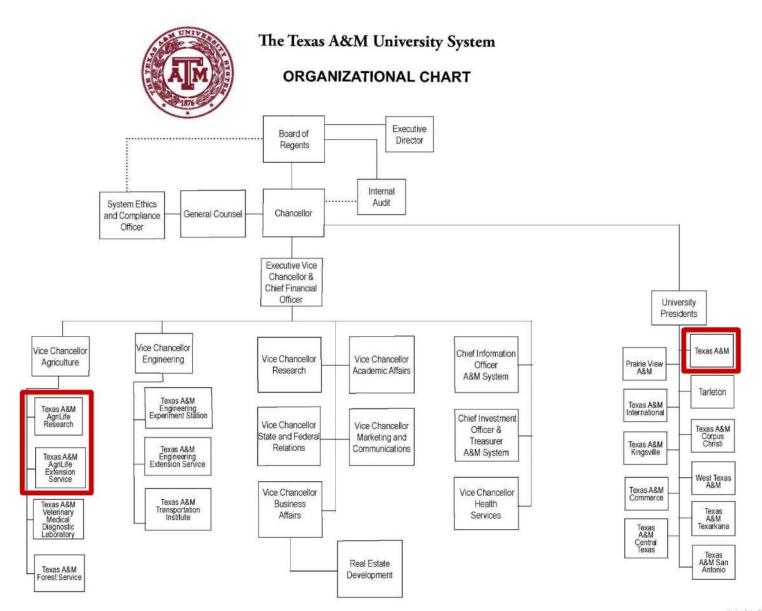
30,000 Gallons of Harvested Rainwater for Irrigation and Toilet Flushing





Green Infrastructure













THE WATER UNIVERSITY TEAM



CLINT WOLFE Program Leader



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The Communications Team











ABOUT 50%

Of any urban area is covered by lawns and landscaping.

TURFGRASS

Is the largest irrigated crop in the US



Over 50%

Of all water used in north Texas is used outdoors

Up to 50%

Of all water used outdoors is wasted due to overwatering or inefficient irrigation

Conservation Potential

Outdoor Use

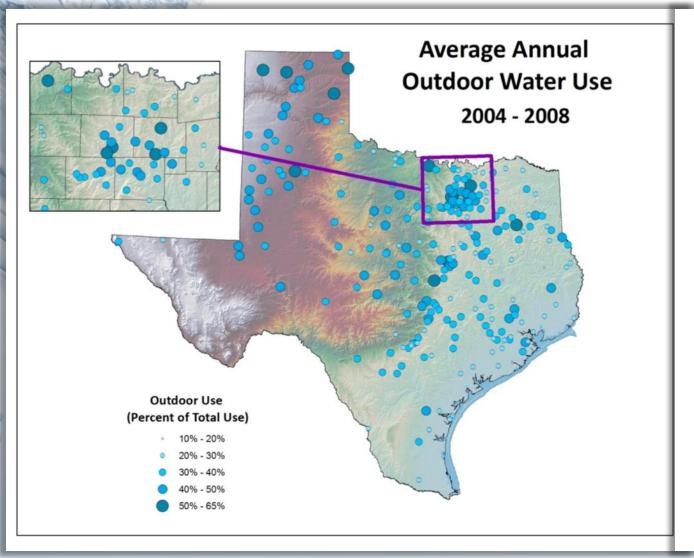


Table 3: Annual average water use by city for 2004 through 2011.

	City	Indoor use (gallons)	Outdoor use (gallons)	Outdoor use as a percentage of total use	Gallons per household per day for indoor use (gallons)	Gallons per household per day for outdoor use (gallons)
1	Amarillo	4,203,333,000	3,110,188,125	42	194	143
2	Arlington	6,579,447,000	3,806,411,375	36	198	114
3	Austin	11,532,894,150	5,879,032,288	33	176	89
4	College Station*	1,510,618,286	922,872,143	38	-	-
5	Corpus Christi	4,983,501,000	1,839,473,375	26	179	66
6	Dallas	16,293,358,200	11,668,235,723	41	173	125
7	El Paso	12,676,702,014	6,231,936,280	33	220	105
8	Fort Worth	11,576,921,511	6,819,864,226	37	166	97
9	Garland	4,398,659,640	2,234,119,198	33	198	100
10	Houston	22,287,783,000	5,629,024,250	20	148	37
11	Katy	281,554,500	202,737,375	40	188	135
12	Laredo	5,013,600,000	1,707,862,500	25	265	93
13	Lubbock	4,332,784,500	2,341,568,000	36	177	96
14	Odessa	2,327,562,000	1,358,331,500	37	205	119
15	Pflugerville	558,544,200	393,038,375	39	219	152
16	San Antonio**	23,242,411,406	7,713,879,696	25	202	67
17	Tyler	1,682,887,500	1,937,568,750	53	171	195
	City average			35	192	108
	City median			36	191	102
	Statewide			31	181	86
	average				10000	







Effective Figure 1997. Programmer 1997.











Rainwater Harvesting

Courses

Home

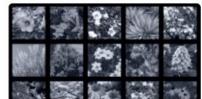


About

Plants

Turfgrass

Plant Database



Irrigation

ULandscapeIt

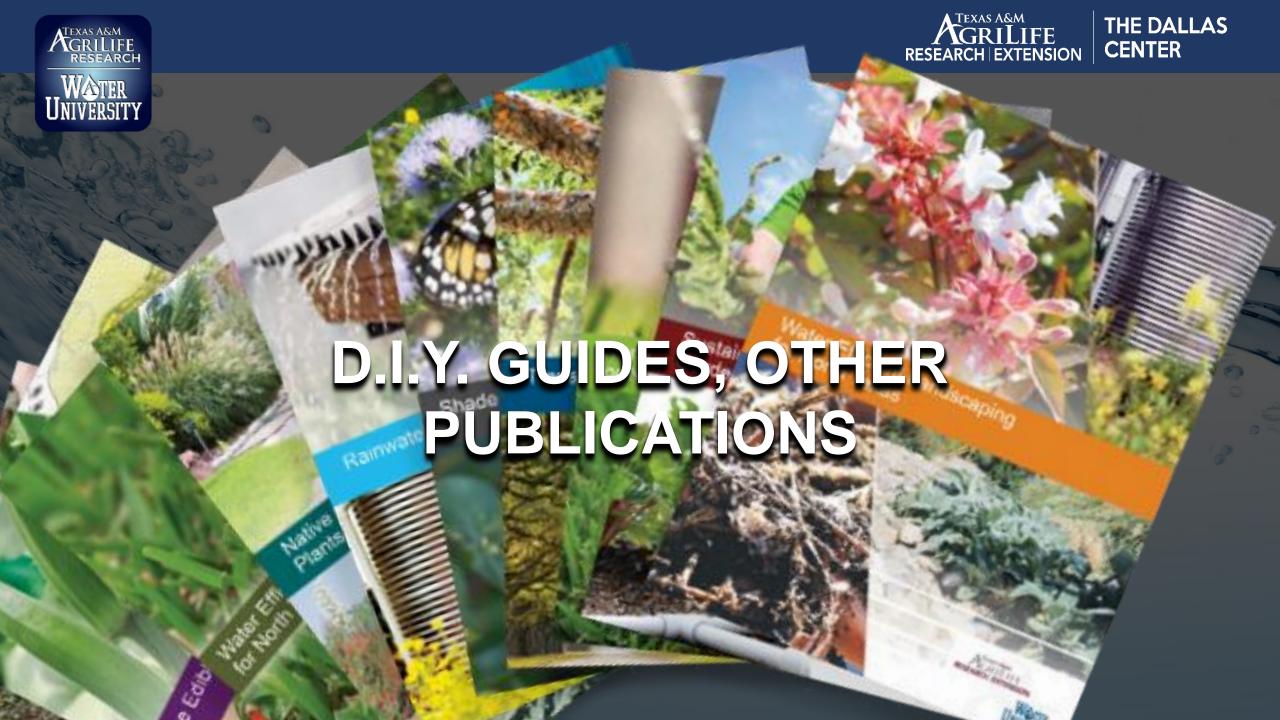


Publications

WaterSense Demonstrations



Stream Trailer





@AgriLife Water University



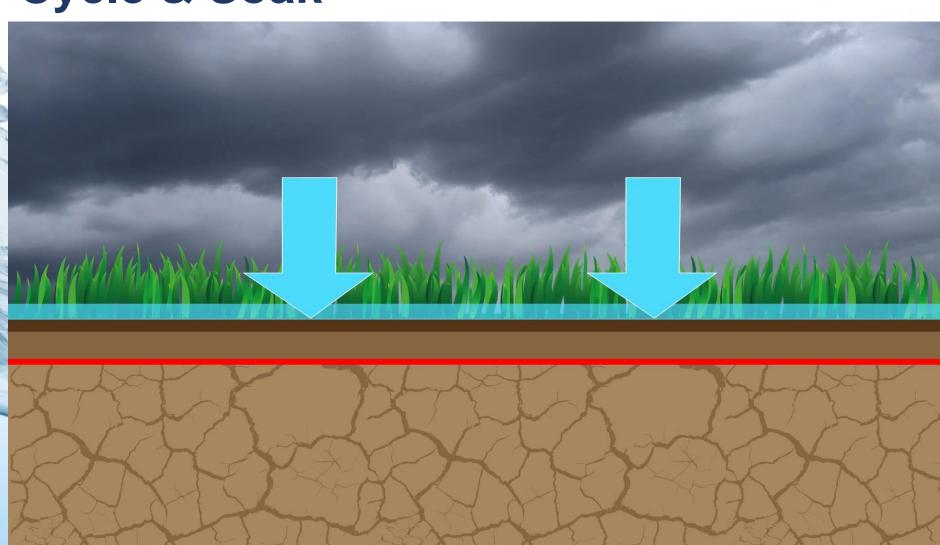






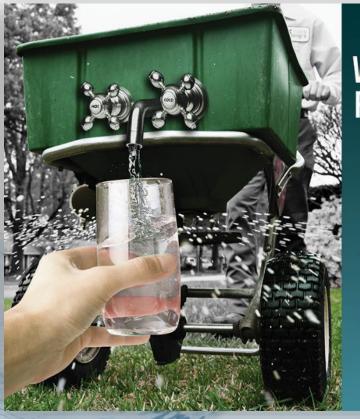
Cycle & Soak

Digital Multi Media





Multi Media Campaigns



KNOW WHERE THE FERTILIZER GOES.



CLICK FOR CLEAN WATER.

KNOW Where the Fertilizer Goes.



CLICK FOR CLEAN WATER.





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Water University Savings Impact

Outdoor Irrigation 160,000 gallons per year, per household on average



70,000 home owners trained for efficient use by Water University



10% water use reduction per trainee household

1.1 Billion gallons saved per year

20% water use trainee household

reduction per ___ 2.2 Billion gallons saved per year

By the Numbers

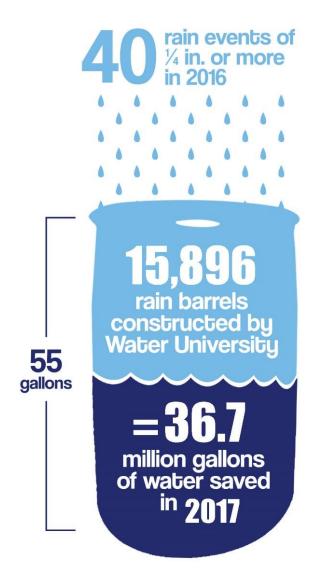
Water University maintains a comprehensive set of impact statistics based on water use national averages, patron surveys, and regional water use trends. The statistics listed here reflect a conservative estimate of actual water resource savings garnered as a direct result of Water University's educational outreach efforts.

Water University Course Patrons 80% more likely to install 95% more likely to plant native or adapted plants

Will consume about 40% less water outdoors

40% more likely to reduce









Research Programs

- Water use coefficients of landscape plants
- Effectiveness of landscape BMPs
- Holistic landscape management systems
- Modeling of landscape systems and water requirements
- Rainwater, grey water and alternative water source technologies
- Irrigation technologies
- Landscape design and public acceptance of low water use landscapes



"The "real world" of the Texas homeowner is far removed from the ongoing research being done in landscape water conservation. He is not privy to the reams of information being published on all sorts of new findings and more efficient watering techniques. He is at the mercy of his own limited knowledge and that of the "neighborhood" expert."

Benny Simpson - 1982

