

Sustainability Facilities Services

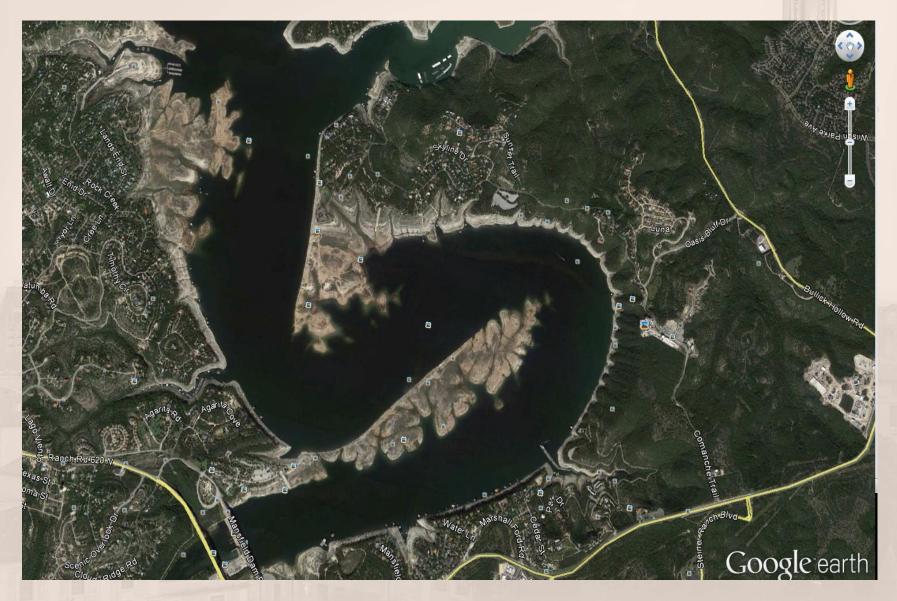
Markus Hogue

Program Coordinator: Irrigation & Water Conservation The University of Texas at Austin

Lake Travis - 2008



Lake Travis - 2013



President's Sustainability Steering Committee

- In May 2007, President William Powers established the University Task Force on Sustainability
- University adopted a policy regarding sustainability in April 2008
- By August 31, 2020, UT Austin will reduce domestic water use by 20% with at least 40% of total water use coming from reuse/reclaimed sources





September 20, 2011 Valid 7 a.m. EST

Texas

	0	nought (Conditio	ns (Per	cent An	ea)
	None	00-04	D1-04	02-04	03-04	D4
Current	0.00	100.00	100.00	99.03	96.10	85.43
Last Week (09/13/2011 map)	0.00	100.00	100.00	99.17	96.75	87.83
3 Months Ago (06/21/2011 map)	3.33	96.67	96.71	94.52	91.31	70.61
Start of Calendar Year (12/25/2010 map)	7.89	92.11	69.43	37.46	9.59	0.00
Start of Water Year (09/26/2010 map)	75.57	24.43	2.43	0.99	0.00	0.00
One Year Ago (05/14/2010 map)	77.93	22.07	3.37	0.97	0.00	0.00

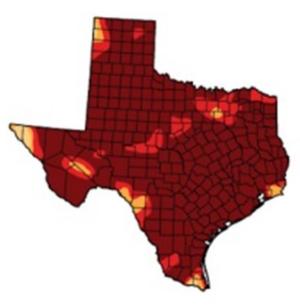




D3 Drought - Extreme D4 Drought - Exceptional

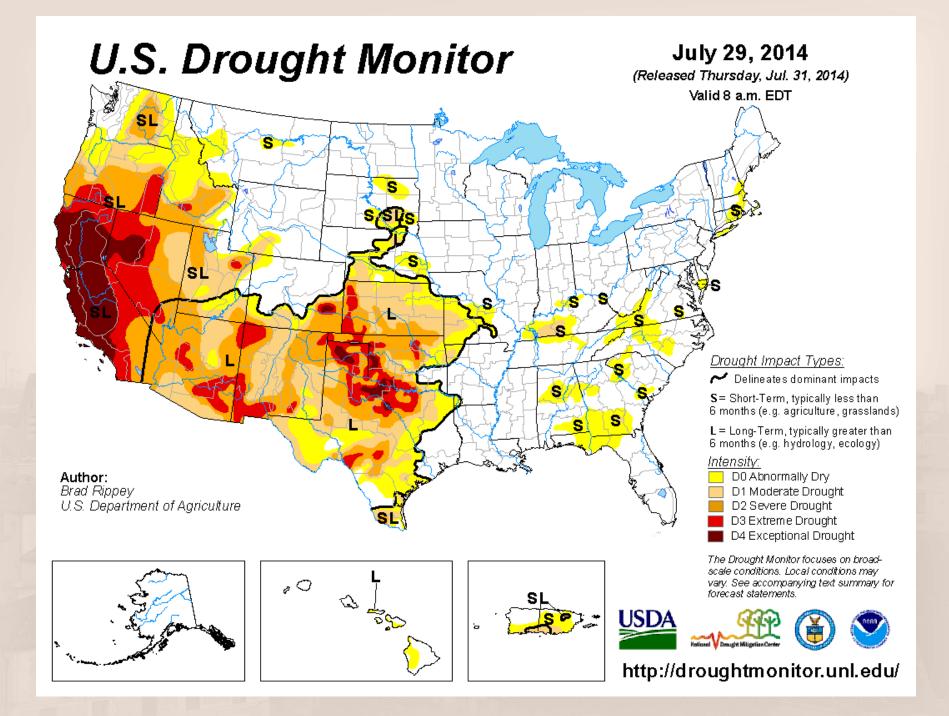
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

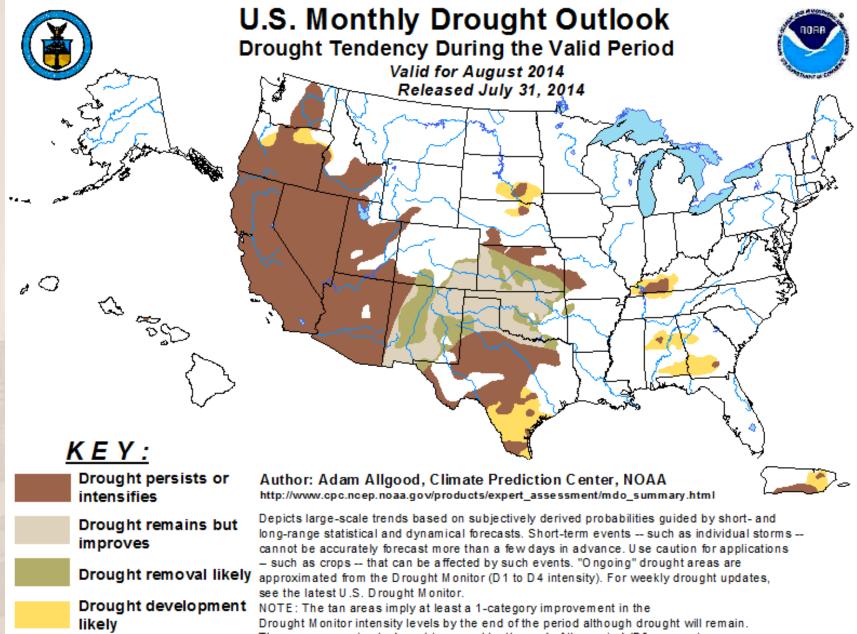
http://drought.unl.edu/dm





Released Thursday, September 22, 2011 Michael Brewer, National Climatic Data Center/NOAA





The green areas imply drought removal by the end of the period (D0 or none)

UT Main Campus

109 Automatic Irrigation Controllers

2,288 irrigation zones

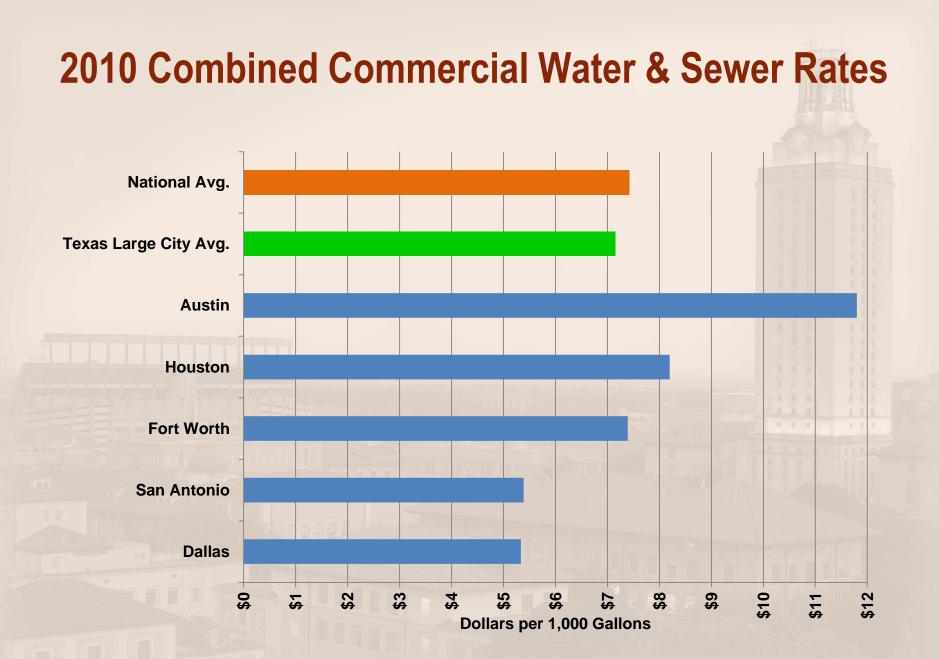
29,744 irrigation heads

53 manual zones

Past yearly irrigation consumption 175 million gallons of water

2012 consumption was 66% lower on automated systems





Pricing trend comparison

Long-term trends in consumer prices (CPI) for utilities (1983=100) Water & sewer (1953) Local phone (1978) Postage (1935) CPI (1913, 1983=100) Electricity (1913) Natural gas (1935) 175--CPI (1997=100) ——— Tel. services (1997=100) Wireless (1997=100) Landline interstate (1978) CTT 1 Bearber Power

Irrigation and Water Management

- Distribution methods
- Central Irrigation System
- Flow Sensors
- Data analysis
- Transparency
- Xeriscaping
- Internships
- Dashboard
- Future



Replaced over 18,000 nozzles

AFTER: No Misting + No Drifting = Minimal Water Waste



Nozzles



Nozzles



Drip Irrigation

- Water applied where it is needed
- Reduced water waste





Squirrel problems!



Texas Style Solution



Squirrel Solution



Irrigation and Water Management

- 2.1 million dollar modernization of UT's Irrigation system
- Adhere to City Watering Regulations
- Maintenance/Repair
- High Water usage Systems



Centralized **Irrigation Management**

show GIS information for

Central Reports Water Reports Flow Reports Window Help

Central

Computer

Reports

Handheld CALSENSE Remote Station Run Times

Ho Water Days

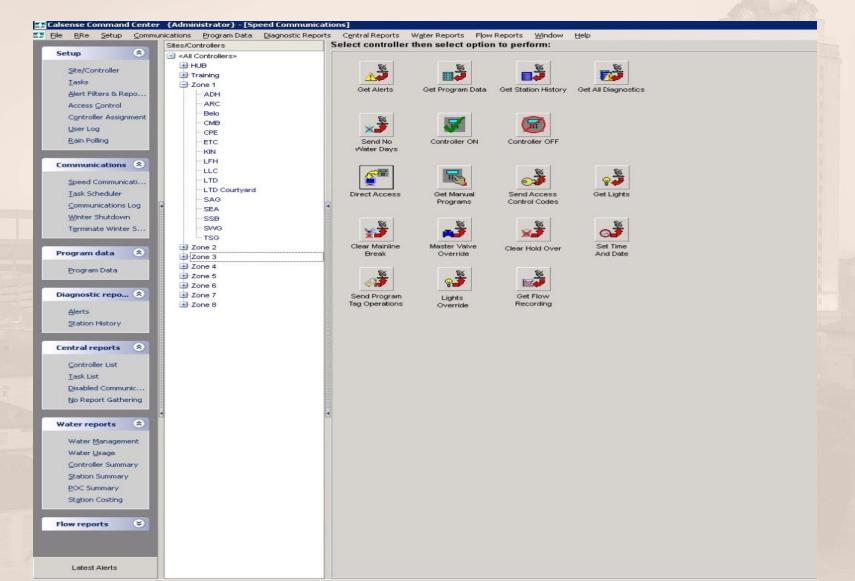
Expected Flow Rates

Field Controller

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ET Comparing

Universal Control and Data Access



Calsense Controllers

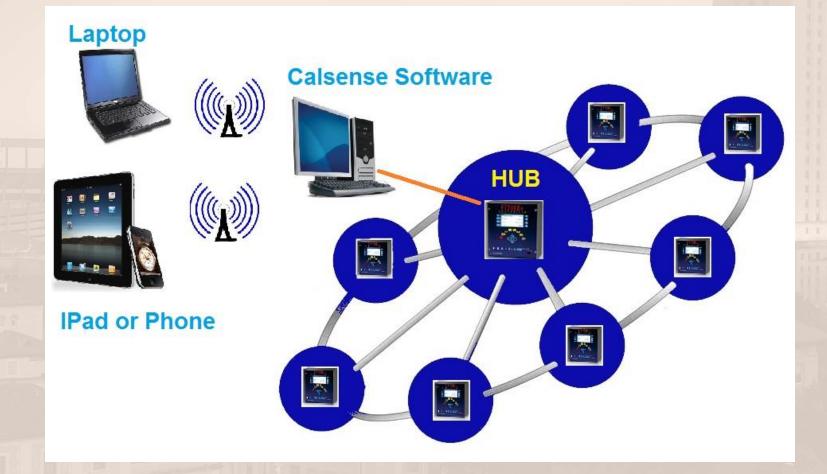




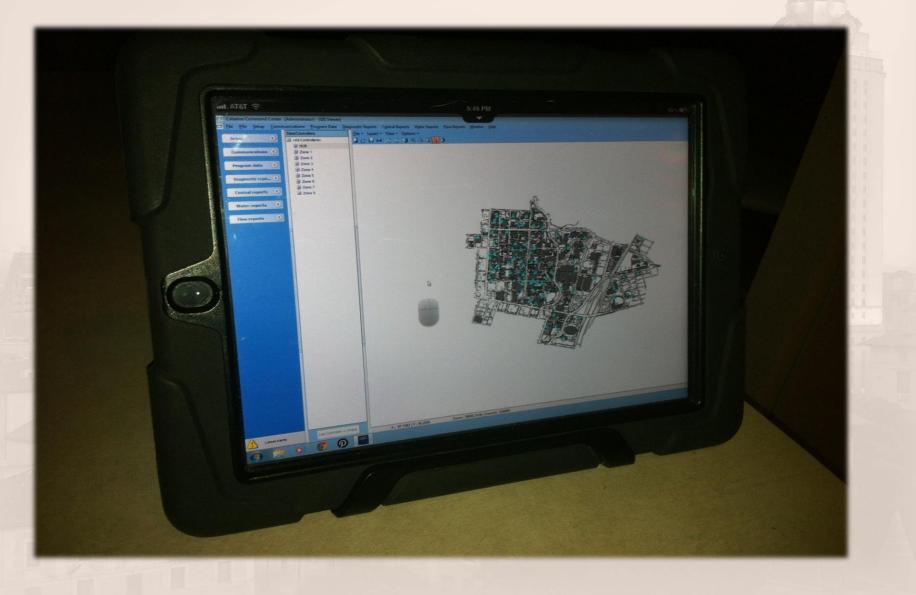
Hand Held Remote



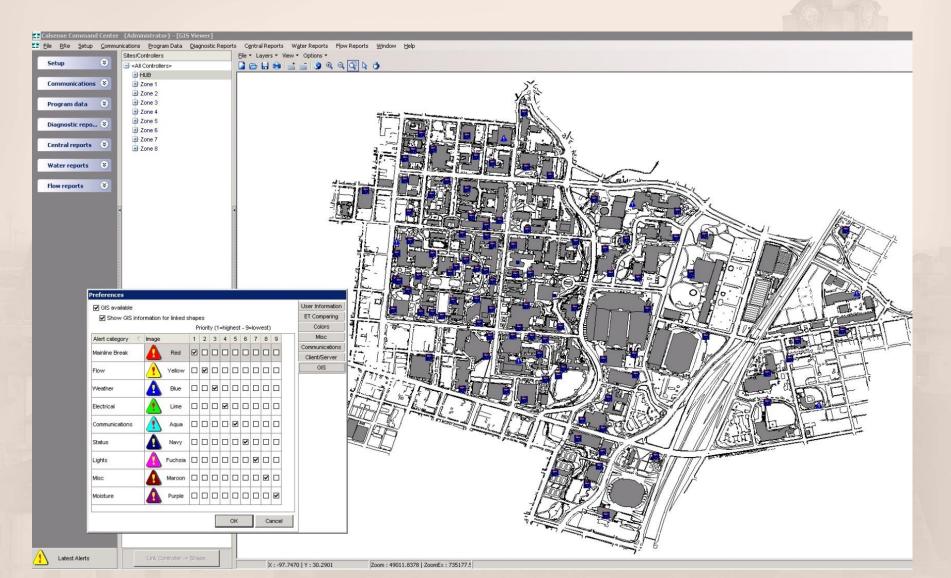
Communication Method



Offsite Management



GIS Map with Alert Notification



Alerts

BROKEN hard west side by entrance

2-6-13 EV

Alerts By Site Zone 1

February 05, 2013 7:37 AM

Time Stamp		Alert Message
02/04/2013	10:02 PM	LOW FLOW: Programmed irrigation, station 1, Measured 6 gpm, Expected 13 gpm
	10:05 PM	LOW FLOW: Programmed irrigation, station 2, Measured 8 gpm, Expected 14 gpm
	10:07 PM	LOW FLOW: Programmed irrigation, station 3, Measured 7 gpm, Expected 18 gpm
	10:09 PM	HIGH FLOW: Programmed irrigation, station 4, Measured 33 gpm, Expected 22 gpm
	10:11 PM	LOW FLOW: Programmed irrigation, station 5, Measured 16 gpm, Expected 22 gpm
	10:13 PM	LOW FLOW: Programmed irrigation, station 6, Measured 6 gpm, Expected 15 gpm

- Location
- Time

Savings

Alerts By Zone 1	Site	February 05, 2013 7:37 AM									
LLC		609									
Time Stamp		Alert Message									
02/04/2013	10:02 PM	NO FLOW: Programmed irrigation, station 9, Measured 0 gpm, Expected 5 gpm									
	11:51 PM	LOW FLOW: Programmed irrigation, station 3, Measured 5 gpm, Expected 8 gpm									
	11:53 PM	LOW FLOW: Programmed irrigation, station 10, Measured 8 gpm, Expected 11 gpm									
	11:59 PM	LOW FLOW: Programmed irrigation, station 11, Measured 13 gpm, Expected 16 gpm									
02/05/2013) 12:01 AM	HIGH FEOW: Programmed irrigation, station 2, Measured 17 gpm, Expected 7 gpm									
	12:03 AM	HIGH FLOW: Programmed irrigation, station 6, Measured 21 gpm, Expected 10 gpm									
	12:05 AM	HIGH FLOW: Programmed irrigation, station 12, Measured 21 gpm, Expected 10 gpm									
	12:07 AM	HIGH FLOW: Programmed irrigation, station 1, Measured 25 gpm, Expected 14 gpm									
	12:09 AM	HIGH FLOW: Programmed irrigation, station 4, Measured 19 gpm, Expected 11 gpm									
	12:12 AM	HIGH FLOW: Programmed irrigation, station 5, Measured 19 gpm, Expected 9 gpm									
	12:14 AM	HIGH FLOW: Programmed irrigation, station 7, Measured 19 gpm, Expected 10 gpm									
	12:16 AM	HIGH FLOW: Programmed irrigation, station 8, Measured 22 gpm, Expected 11 gpm									

VATUE # 11 SHICK ON 2-6-13 2-11-13 EV

609.0

Above water loss 4,620 gallons \$33 a month Right water loss 17,820 gallons \$128 a season

Adjusting for Climate by Gauging Evapotranspiration



Evapotranspiration ET definition: is a term used to describe the sum of evaporation and plant transpiration from the Earth's land surface to atmosphere.

Rain Buckets

Locations : MAI JON Facilities Services

Turns off irrigation due to rain

Uses rain amount to modify program operating times

Shares data with controllers that are near the Rain Bucket's location

Rain Buckets at MAI and Facilities Services have had different amounts of up to half an inch



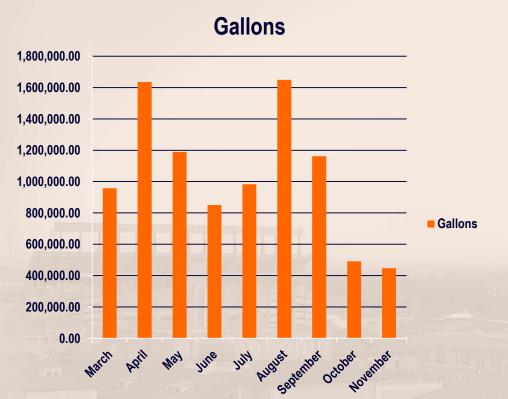
Measurement & Automatic Shut-Off Installed flow sensors & master control valves



Old irrigation control box New irrigation controls Flow sensor

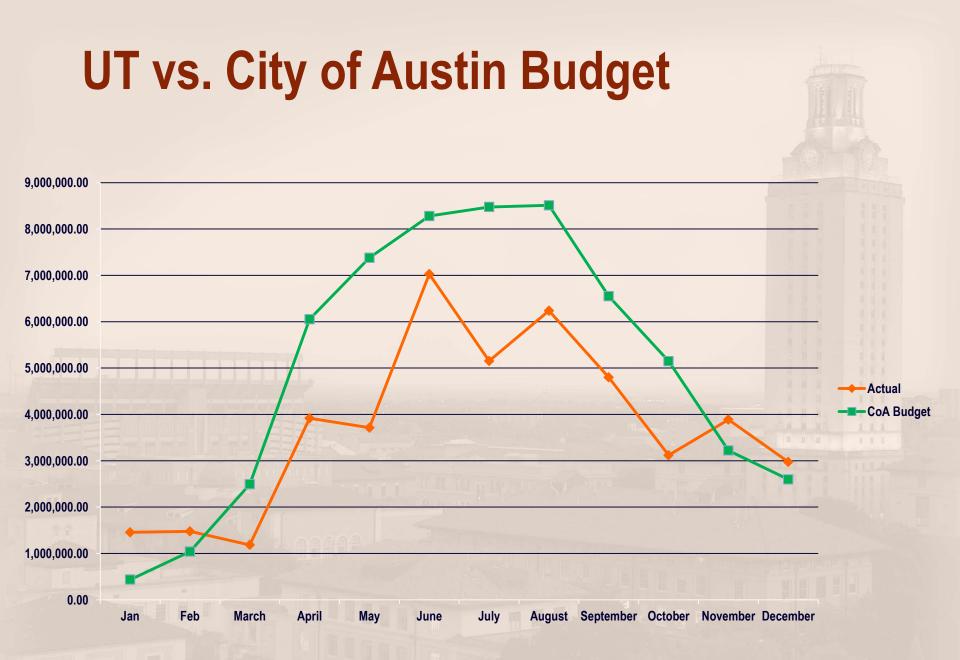
Master control valve

Water Savings from Flow Sensor



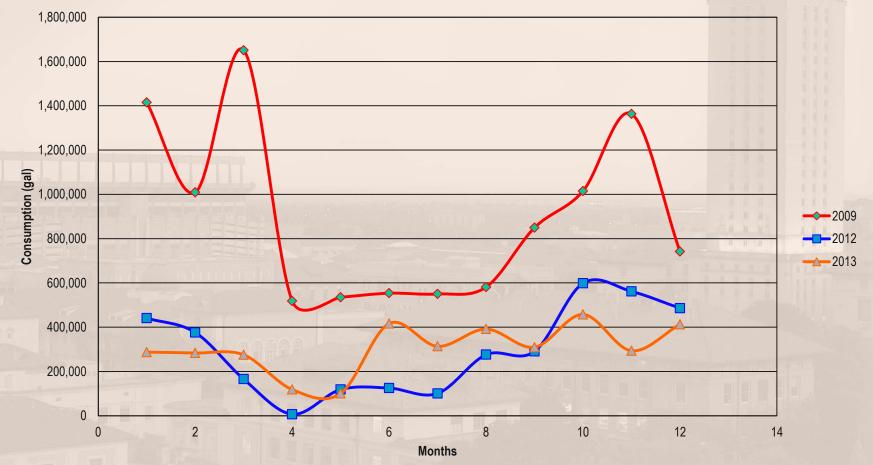
Over 9.3 Million gallons in 2012!!!!





Water meter data

All Automated



Past Irrigation Information

Present Data Collection

Water Meter Data from Irrigation Meters

285 million gallons average for past 3 years

Calculation based on nozzle precipitation

182 million gallons per year

WMI Irrigation Audit in 2007-2008

176 million gallons per year

Nater Usage	July 27, 20	Jun/01/2012 - Jun/30/201							
	Usage (Gallons)	ET Table (Inches)	Rain Table (Inches)						
Zone 1 LFH									
Jun-2012	61,043	7.93	0.00						
Total	61,043	7.93	0.00						
LLC									
Jun-2012	53,175	8.28	0.00						
Total	53,175	8.28	0.00						
LTD									
Jun-2012	352	8.28	0.00						
Total	352	8.28	0.00						
LTD Courtyard									
Jun-2012	4,716	7.93	0.00						
Total	4,716	7.93	0.00						
SAG									
Jun-2012	3,788	8.28	0.00						
Total	3,788	8.28	0.00						
SEA									
Jun-2012	138,540	8.28	0.00						
Total	138,540	8.28	0.00						
SSB									
Jun-2012	51,392	8.28	0.00						
Total	51,392	8.28	0.00						

CINIC

Water Usage Data

Z CALSENSE.

Calsense 2075 Corte del Nogal Carlsbad, CA 92011 (800) 572-8608 July 17, 2012 6:43 AM

Jun/01/2012 - Jun/30/2012

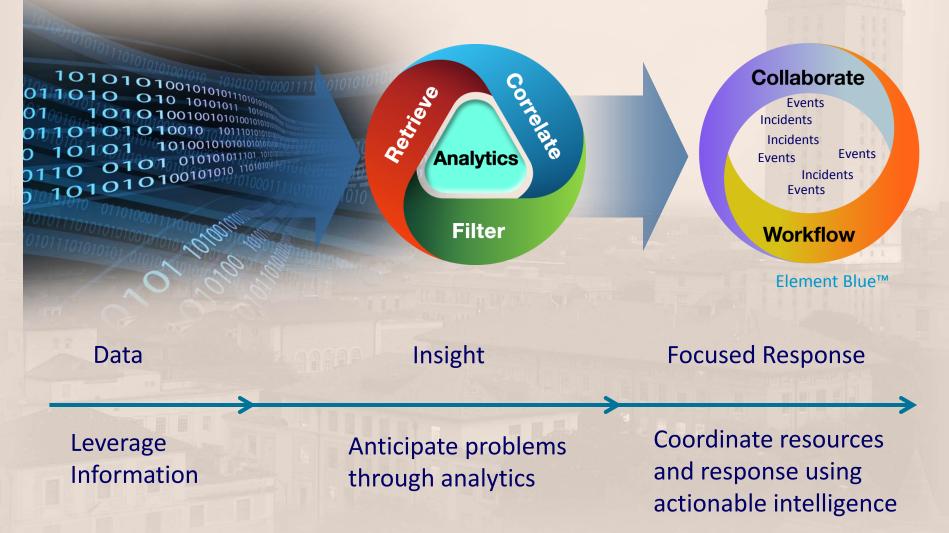
Controller Summary Zone 7

MMS

Date	Hist.	ET	Total Rain Budget Irrigation Irrigation		Irrigation	Manual	Manual	Test	Test	Remote	Remote	Non-Controller	Non-Controller		
06/01/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
06/02/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	12,922	260.3
06/03/2012	0.28	0.28h	0.00	0.000	317,529	13,235	248.5	0	0.0	0	0.0	0	0.0	396	85.3
06/04/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	12,804	260.3
06/05/2012	0.28	0.28h	0.00	0.000	317,529	9,555	180.3	0	0.0	0	0.0	0	0.0	12,723	259.1
06/06/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	12,871	260.3
06/07/2012	0.28	0.28h	0.00	0.000	317,529	14,094	265.8	0	0.0	0	0.0	0	0.0	2	0.1
06/08/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
06/09/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	19,015	385.3
06/10/2012	0.28	0.28h	0.00	0.000	317,529	14,144	268.6	0	0.0	0	0.0	0	0.0	597	73.9
06/11/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	19,499	401.3
06/12/2012	0.28	0.28h	0.00	0.000	317,529	9,750	248.1	0	0.0	0	0.0	0	0.0	0	0.1
06/13/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	11,096	401.1
06/14/2012	0.28	0.28h	0.00	0.000	317,529	10,126	258.3	0	0.0	0	0.0	0	0.0	1	0.1
06/15/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
06/16/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	11,059	401.1
06/17/2012	0.28	0.28h	0.00	0.000	317,529	9,922	259.8	0	0.0	0	0.0	317	8.6	342	77.4
06/18/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	139	4.3	0	0.0	10,847	401.1
06/19/2012	0.28	0.28h	0.00	0.000	317,529	10,130	252.4	980	45.0	0	0.0	0	0.0	7,243	348.2
06/20/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	1,014	45.1	0	0.0	0	0.0	15,241	497.0
06/21/2012	0.28	0.28h	0.00	0.000	317,529	13,935	268.1	1,576	45.0	0	0.0	0	0.0	2	0.1
06/22/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	1,646	45.3	0	0.0	0	0.0	2	0.1
06/23/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	19,779	401.3
06/24/2012	0.28	0.28h	0.00	0.000	317,529	14,123	268.5	0	0.0	0	0.0	0	0.0	4,032	148.3
06/25/2012	0.28	0.28h	0.00	0.000	317,529	9,815	180.7	0	0.0	0	0.0	0	0.0	19,503	398.3
06/26/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	2,772	60.1
06/27/2012	0.28	0.28h	0.00	0.000	317,529	9,973	180.7	0	0.0	0	0.0	0	0.0	18,542	368.3
06/28/2012	0.28	0.28h	0.00	0.000	317,529	13,952	262.1	0	0.0	0	0.0	0	0.0	2	0.1
06/29/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
06/30/2012	0.28	0.28h	0.00	0.000	317,529	0	0.0	0	0.0	0	0.0	0	0.0	18,878	371.3
Jun-2012	8.28	8.28	0.00	0.00	317,529	152,754	3,141.9	5,216	180.4	139	4.3	317	8.6	230,178	5,860.0
Totals:	8.28	8.28	0.00	0.00	317,529	152,754	3,141.9	5,216	180.4	139	4.3	317	8.6	230,178	5,860.0
Site Totals:					317,529	152,754	3,141.9	5,216	180.4	139	4.3	317	8.6	230,178	5,860.0
Grand Totals:					317,529	152,754	3,141.9	5,216	180.4	139	4.3	317	8.6	230,178	5,860.0

Intelligent Operations

Collecting and analyzing data, while automating a collaborative response



Transparency Dashboard

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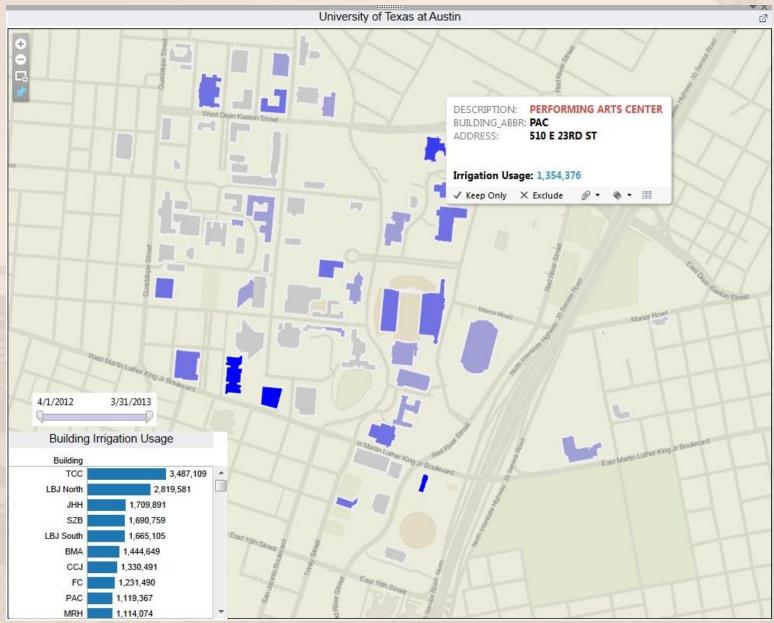
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Transparency



Sustainable Landscaping

Lower Maintenance

Requires less water

Can be very colorful

Local plant material



Xeriscaping



Utilizing Interns

Hands on experience!!!

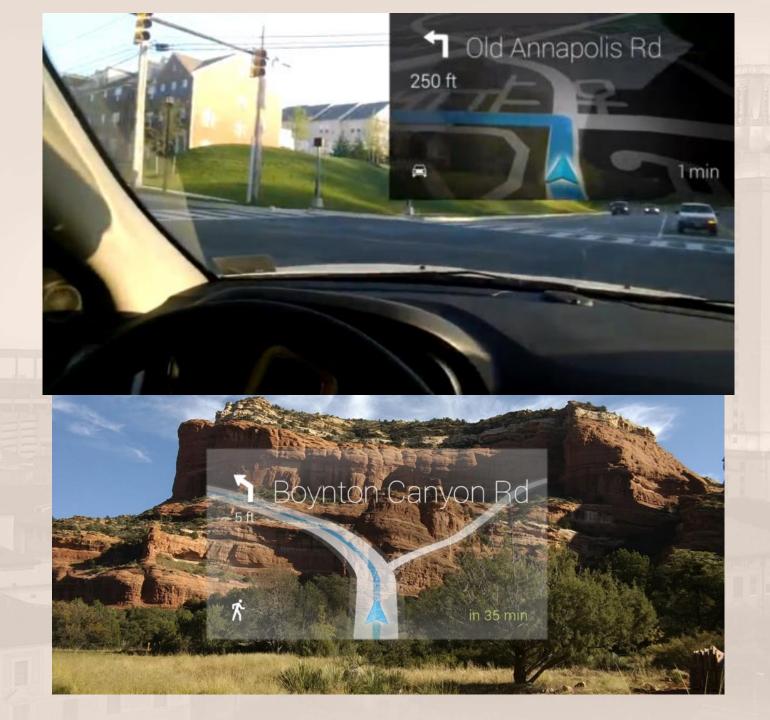
Combining class lessons with real life applications





Google Glass





Future

Facilitie

Control Irrigation from anywhere in the world

See piping in the ground

Access irrigation plans from anywhere

What Starts Here Changes the World

Contact Information

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