

**LCCN LONE STAR WATER SMART CONSERVATION STUDY
ESTIMATED COST FOR PERMANENT WATER CONSUMPTION REDUCTION**

**NOTE: THIS TABLE IS FOR RETROFIT. NEW CONSTRUCTION
INCREMENTAL COST FOR THESE CHANGES IS VERY LOW WITH THE
EXCEPTION OF TURF GRASS WHICH SHOULD ABOUT THE SAME AS
BELOW**

REVISED OCTOBER 16, 2010

HOME OWNER IRRIGATION @ 120,000 GALLONS PER YEAR (20,000/MONTH)						
ITEM	COST	AVAILABLE AT	INSTALLED COST (1)	SAVINGS GAL/YEAR	WATER COST SAVINGS/YR	1ST YEAR SAVINGS
RAIN SENSOR	\$20.00	BOX STORES	\$25.00 (1)	@ 15 % 18,000	@ \$5.00/1000G \$90	\$ 65
MOISTURE SENSOR	\$150-\$300 (2)	IRRIGATORS OR WEB	\$250-\$400	@ 25 % 30,000	\$ 150	-\$100 to -\$150 (3)
DRIP IRRIGATION	100 LF \$100	BOX STORES	\$100	@ 50 % 30,000	\$150	\$ 50
RETROFIT TURF GRASS 6,000 SQ -FT	Zoysia @ \$0.39/sq ft Bermuda @ \$0.22 sf		Z @ \$ 2,340 B @ \$ 1,320	@ 50 % 60,000	\$300 \$300	-\$2,000 (3,4) -\$1,020 (3,4)
PLUMBING FIXTURES AT 2.3 PEOPLE PER HOUSE HOLD (6)						
TOILETS 3.4 > 1.6 G/F	TWO @ \$ 300	BOX STORES	TWO @ \$550	8,815	\$ 44	(\$506) (4)
SHOWER HEADS	TWO @ \$40	BOX STORES	TWO @ \$40	2,183	\$ 11	(\$25) (4)
AERATORS	FIVE @ \$25	BOX STORES	FIVE @ \$25	168	\$ 1	(\$24) (4)
CLOTHES WASHER	ONE @ \$600	BOX STORES	ONE @ \$600	3,778	\$ 19	(\$ 581) (4)
(4) SOURCE: http://www.texaswatermatters.org/pdfs/articles/conservation_tips_3.pdf						

(1) Home owner installed. Add \$30-\$50 for contractor installed.

(2) Moisture sensor technology and installation techniques are developing quickly. Suggest careful analysis before purchase and installation.

(3) Break even on Zoysia is 11.5 years. Break even on Bermuda is 6.5 years. Irrigation and plumbing water reduction investments should be long term without significant maintenance.

(4) Retrofitting is expensive. Incentives will expedite.

(5) Low energy clothes washers also save electrical cost.

(6) Census Quick Facts