

Estimation of savings using better irrigation technologies.

Practice	Irrigation volume per year		Electricity used per year	Electricity rate per year	Water rate per year	Annual water savings	Total annual savings	System costs	Ease of installation	Lawn quality
	gal	ccf/month	kWh	\$US	\$US	gal	\$US	\$US		
Set schedule with timer	264,752	29	41.6	\$5.11	\$1,106.08			Base unit	*****	**
Timer with rain sensor*	198,564	22	31.2	\$3.83	\$700.36	66,188	\$407.00	\$20	****	***
ET controller	172,088	19	27.0	\$3.32	\$526.48	92,663	\$581.39	\$210	***	****
Timer with soil water sensor	132,376	15	25.0	\$3.07	\$340.47	132,376	\$767.65	\$200	**	*****

* This is required by Florida law.

Uncaptured cost: lawn quality, fertilizer, embarrassment, foot print

Assumptions:

irrigation lawn area is 0.15 acre

Electricity is \$122.76/1000 kWh

Controllers use 1.2 kW

Rain sensors reduce irrigation by 25%, ET controllers by 35%, and SWS by 40%

Water costs based on MDC rates

Irrigation rate 0.5 in 2x weekly

Assumed an 80% efficiency of irrigation system

Irrigation metered separately and not included in waste treatment costs

Phase I of water restrictions imposed and surcharge included