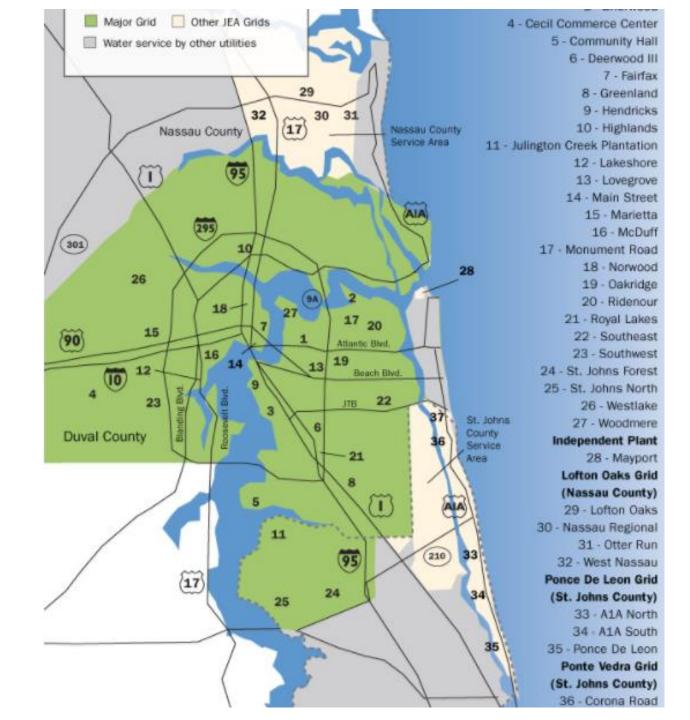
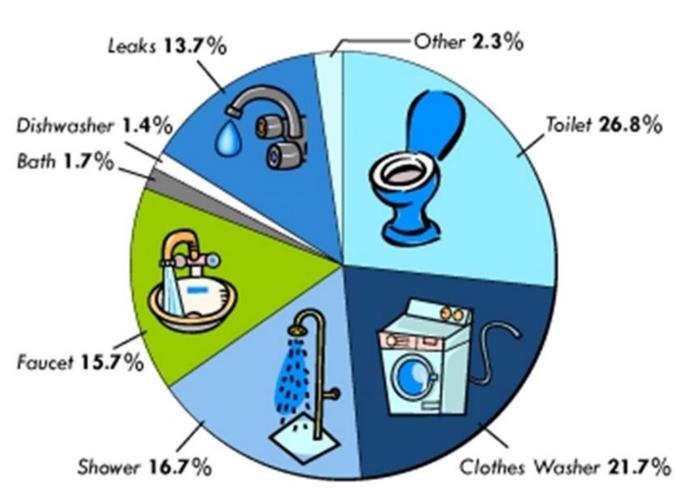
Water Conservation

David Reed JEA Account Executive







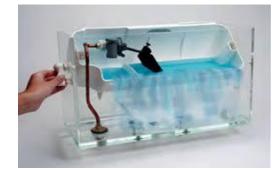
Indoor Household Water Use

Source: Awwa Research Foundation (1999)

What Can Be Done?

- Low flow Showerheads (1.5-2 GPM)
- High efficiency toilets (low flow, dual flush, flapperless)
- Efficient dishwashers and clothes washers
- Faucet aerators

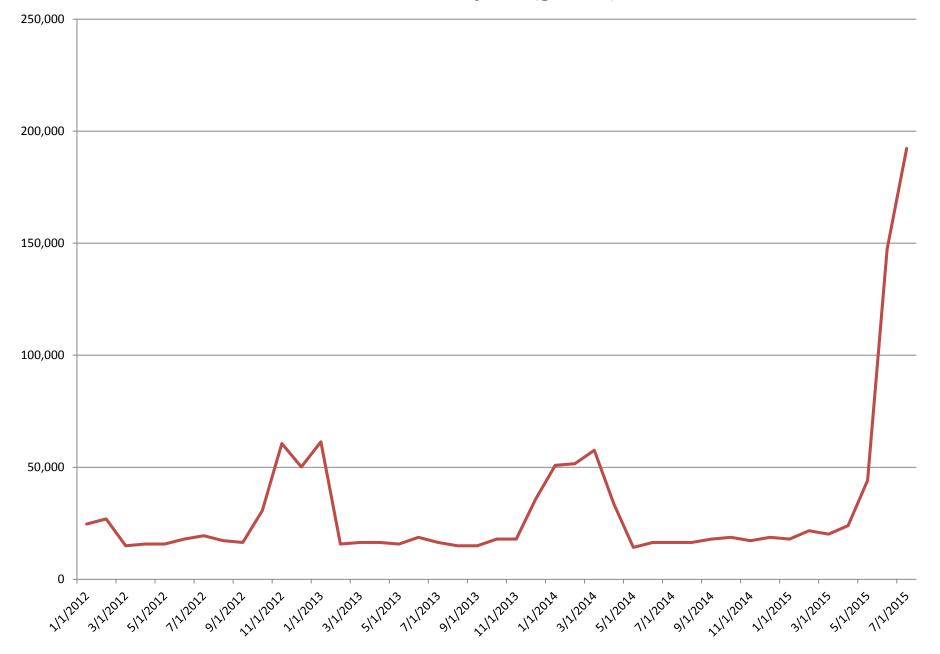




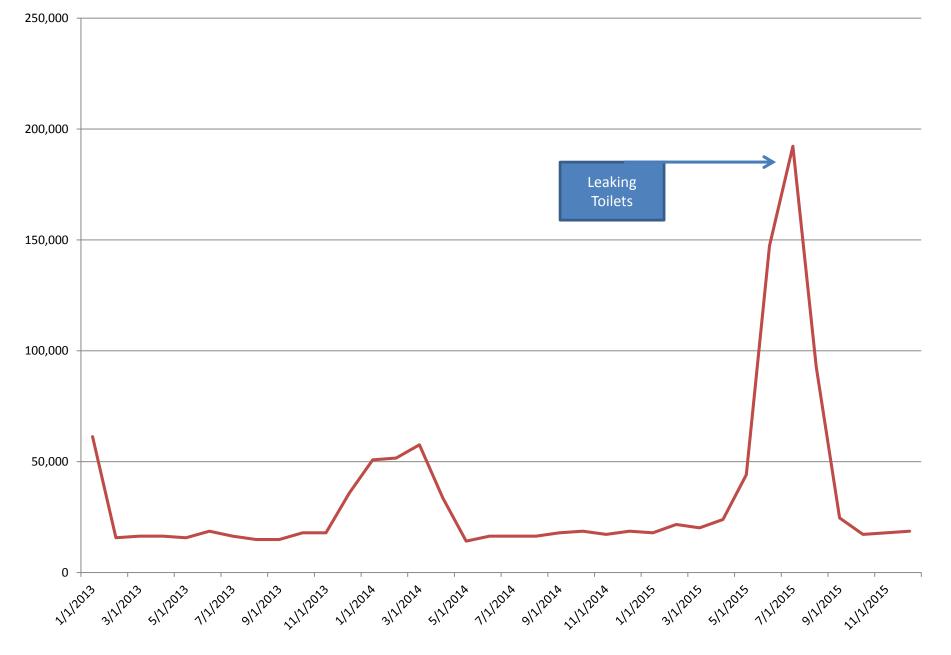




Water Consumption (gallons)



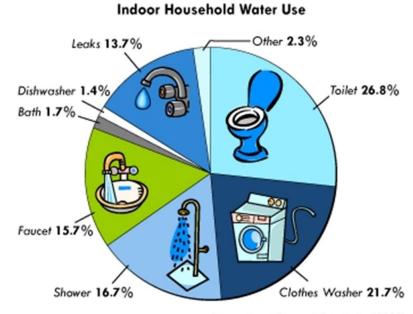
Water Consumption (gallons)



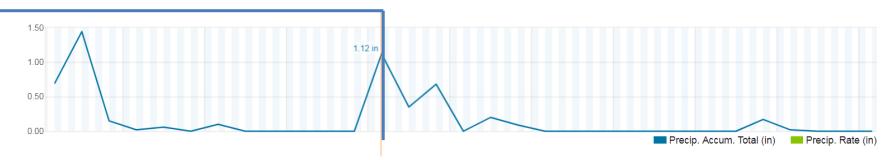




	Irrigation	Home
07/13/17 23:57 Thu	0	0
07/12/17 23:57 Wed	1980	0
07/11/17 23:54 Tue	0	10
07/10/17 23:40 Mon	2150	0
07/09/17 22:40 Sun	1980	0
07/08/17 23:55 Sat	0	80
07/07/17 23:32 Fri	2150	440
07/06/17 23:14 Thu	0	180
07/05/17 23:38 Wed	2060	120
07/04/17 23:47 Tue	0	110
07/03/17 23:52 Mon	0	40
07/02/17 23:43 Sun	2140	430
07/01/17 23:44 Sat	0	60
06/30/17 23:17 Fri	2290	50
06/29/17 23:47 Thu	0	80
06/28/17 21:27 Wed	2160	110
06/27/17 23:40 Tue	0	220
06/26/17 23:39 Mon	2180	160
06/25/17 23:56 Sun	2020	160
06/24/17 23:00 Sat	0	300
06/23/17 23:09 Fri	2150	170



Source: Awwa Research Foundation (1999)



Read Date	Badge #	Module ID	Bill Read (GAL)	Actual Read	Usage	Outage Counter	Outage	Magnet	Read Origin
11/06/17 23:57 Mon			685	685520	1940	0	N	N	AMR
11/05/17 23:59 Sun			683	683580	290	0	N	N	AMR
11/04/17 23:47 Sat			683	683290	330	0	N	N	AMR
11/03/17 23:49 Fri			682	682960	2140	0	N	N	AMR
11/02/17 23:05 Thu			680	680820	190	0	N	N	AMR
11/01/17 23:59 Wed			680	680630	2020	0	N	N	AMR
10/31/17 23:38 Tue			678	678610	330	0	N	N	AMR
10/30/17 23:55 Mon			678	678280	1990	0	N	N	AMR
10/29/17 23:26 Sun			676	676290	450	0	N	N	AMR
10/28/17 23:57 Sat			675	675840	440	0	N	N	AMR
10/27/17 23:57 Fri			675	675400	2110	0	N	N	AMR
10/26/17 23:51 Thu			673	673290	380	0	N	N	AMR
10/25/17 23:44 Wed			672	672910	2200	0	N	N	AMR
10/24/17 23:53 Tue			670	670710	320	0	N	N	AMR
10/23/17 23:55 Mon			670	670390	2190	0	N	N	AMR
10/22/17 23:16 Sun			668	668200	480	0	N	N	AMR
10/21/17 23:45 Sat			667	667720	370	0	N	N	AMR
10/20/17 23:50 Fri			667	667350	2150	0	N	N	AMR
10/19/17 23:52 Thu			665	665200	320	0	N	N	AMR
10/18/17 23:47 Wed			664	664880	2120	0	N	N	AMR
10/17/17 23:02 Tue			662	662760	330	0	N	N	AMR
10/16/17 22:41 Mon			662	662430	1930	0	N	N	AMR
10/15/17 23:59 Sun			660	660500	700	0	N	N	AMR
10/14/17 23:52 Sat			659	659800	640	0	N	N	AMR
10/13/17 23:45 Fri			659	659160	2040	0	N	N	AMR
10/12/17 23:53 Thu			657	657120	350	0	N	N	AMR
10/11/17 23:49 Wed			656	656770	1980	0	N	N	AMR
10/10/17 23:20 Tue			654	654790	370	0	N	N	AMR
10/09/17 23:52 Mon			654	654420	1860	0	N	N	AMR
10/08/17 23:36 Sun			652	652560	0	0	N	N	AMR

Read Date	Badge # Moo	lule ID	Bill Read (GAL)	Actual Read	Usage	Outage Counte r	Outage	Magnet	Read Origin
11/01/17 23:58 Wed			31794	31794800	6300	0	N	N	AMR
10/31/17 23:54 Tue			31788	31788500	6300	0	N	N	AMR
10/30/17 23:47 Mon			31782	31782200	6400	0	N	N	AMR
10/29/17 23:31 Sun			31775	31775800	6800	0	N	N	AMR
10/28/17 23:48 Sat			31769	31769000	7300	0	N	N	AMR
10/27/17 23:54 Fri			31761	31761700	6800	0	N	N	AMR
10/26/17 23:50 Thu			31754	31754900	4900	0	N	N	AMR
10/25/17 23:37 Wed			31750	31750000	7200		N	N	BILLED
10/24/17 23:23 Tue			31742	31742800	9000	0	N	N	AMR
10/23/17 23:56 Mon			31733	31733800	10300	0	N	N	AMR
10/22/17 23:50 Sun			31723	31723500	10400	0	N	N	AMR
10/21/17 23:56 Sat			31713	31713100	10500	0	N	N	AMR
10/20/17 23:48 Fri			31702	31702600	9300	0	N	N	AMR
10/19/17 23:47 Thu			31693	31693300	13000	0	N	N	AMR
10/18/17 23:59 Wed			31680	31680300	10800	0	N	N	AMR
10/17/17 23:59 Tue			31669	31669500	6100	0	N	N	AMR
10/16/17 23:49 Mon			31663	31663400	9100	0	N	N	AMR
10/15/17 23:47 Sun			31654	31654300	8900	0	N	N	AMR
10/14/17 23:48 Sat			31645	31645400	10500	0	N	N	AMR
10/13/17 23:54 Fri			31634	31634900	11400	0	N	N	AMR
10/12/17 23:50 Thu			31623	31623500	9600	0	N	N	AMR
10/11/17 23:54 Wed			31613	31613900	11200	0	N	N	AMR
10/10/17 23:49 Tue			31602	31602700	11300	0	N	N	AMR
10/09/17 23:55 Mon			31591	31591400	11600	0	N	N	AMR
10/08/17 23:51 Sun			31579	31579800	11400	0	N	N	AMR
10/07/17 23:52 Sat			31568	31568400	10800	0	N	N	AMR
10/06/17 23:49 Fri			31557	31557600	11200	0	N	N	AMR
10/05/17 23:56 Thu			31546	31546400	9900	0	N	N	AMR
10/04/17 23:55 Wed			31536	31536500	10400	0	N	N	AMR
10/03/17 23:59 Tue			31526	31526100	0	0	N	N	AMR



252,000 gallons for water 299,000 gallons for irrigation

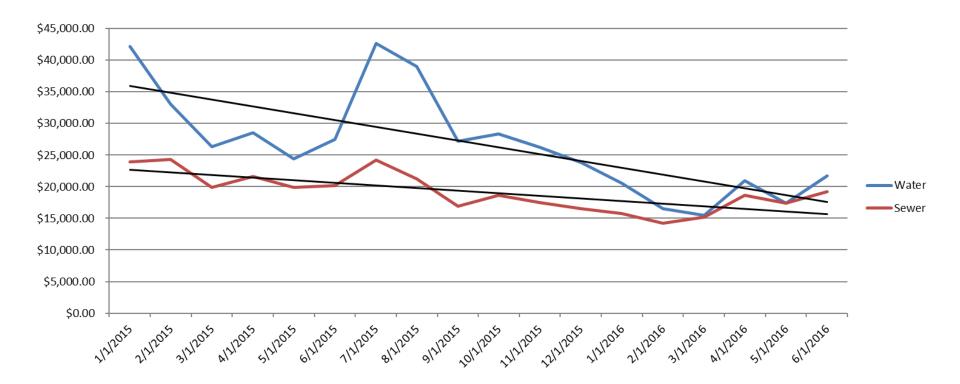
TOTAL SUMMARY OF CHARGES

Electric\$	133,225.60
Irrigation	1,572.82
Sewer	1,879.40
Water	692.86

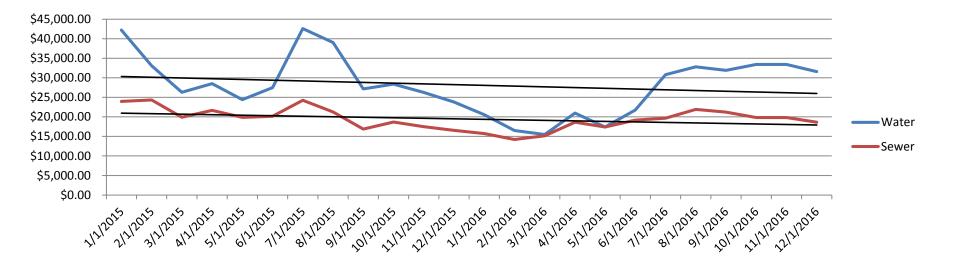
(A complete breakdown of charges can be found on the following pages.)

Total New Charges: \$ 137,370.68





Still at 5 MGM for 318 homes That's 16 kgals per home



First Quarter		Second Quarter			Third Quarter			Fourth Quarter				
Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total/YTD
41	114	89	103	93	96	90	90	76	66	48	54	960
214	269	244	227	273	267	193	237	184	178	187	236	2,709
38	62	50	122	115	82	78	97	92	77	72	45	930
279	306	262	289	323	292	328	327	254	243	216	188	3,307
572	751	645	741	804	737	689	751	606	564	523	523	7,906
1st Qu	uarter	1 ,968	2nd Qu	uarter	2,282						1,610	
Firs	st Quai	ter	Seco	Second Quarter					Fourth Quarter			
Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total/YTD
64	66	57	90	70	66	68	45	104	92	63	44	829
161	132	214	224	202	324	153	142	251	208	255	207	2,473
51	64	46	52	56	77	79	51	67	64	58	35	700
	1 4 5	000	171	170	321	216	354	255	258	191	243	2,723
177	145	222	171	170	201	0.0						-,
177 453	407		537	498	788	516	592	677	622	567	529	6,725
	407			498			592			567		
	Jan. 41 214 38 279 572 1st Qu Firs Jan. 64 161 51	Jan. Feb. 41 114 214 269 38 62 279 306 572 751 1st Quarter First Quart Jan. Feb. 64 66 161 132 51 64	Jan. Feb. March 41 114 89 214 269 244 38 62 50 279 306 262 572 751 645 1st Quarter 1,968 First Quarter Jan. Feb. March 64 66 57 161 132 214 51 64 46	Jan. Feb. March April 41 114 89 103 214 269 244 227 38 62 50 122 279 306 262 289 572 751 645 741 1st Quarter 1,968 2nd Quarter 2nd Quarter Jan. Feb. March April 64 66 57 90 161 132 214 224 51 64 46 52	Jan. Feb. March April May 41 114 89 103 93 214 269 244 227 273 38 62 50 122 115 279 306 262 289 323 572 751 645 741 804 1st Quarter 1,968 2nd Quarter 2nd Quarter First Quarter 1,968 2nd Quarter 51 66 57 90 70 161 132 214 224 202 51 64 46 52 56	Jan. Feb. March April May June 41 114 89 103 93 96 214 269 244 227 273 267 38 62 50 122 115 82 279 306 262 289 323 292 572 751 645 741 804 737 1st Quarter 1,968 2nd Quarter 2,282 First Quarter 1,968 Second Quarter 2,282 64 66 57 90 70 66 161 132 214 224 202 324 51 64 46 52 56 77	Jan. Feb. March April May June July 41 114 89 103 93 96 90 214 269 244 227 273 267 193 38 62 50 122 115 82 78 279 306 262 289 323 292 328 572 751 645 741 804 737 689 1st Quarter 1,968 2nd Quarter 2,282 115 114 First Quarter 1,968 2nd Quarter 2,282 114 G4 66 57 90 70 66 68 161 132 214 224 202 324 153 51 64 46 52 56 77 79	Jan. Feb. March April May June July Aug. 41 114 89 103 93 96 90 90 214 269 244 227 273 267 193 237 38 62 50 122 115 82 78 97 279 306 262 289 323 292 328 327 572 751 645 741 804 737 689 751 1st Quarter 1,968 2nd Quarter 2,282 115 101 302, First Quarter 1,968 2nd Quarter 2,282 115 40, 40, 64 66 57 90 70 66 68 45 161 132 214 224 202 324 153 142 51 64 46 52 56 77 79 51 <th>Jan. Feb. March April May June July Aug. Sept. 41 114 89 103 93 96 90 90 76 214 269 244 227 273 267 193 237 184 38 62 50 122 115 82 78 97 92 279 306 262 289 323 292 328 327 254 572 751 645 741 804 737 689 751 606 1st Quarter 1,968 2nd Quarter 2,282 572 50 <td< th=""><th>Jan. Feb. March April May June July Aug. Sept. Oct. 41 114 89 103 93 96 90 90 76 66 214 269 244 227 273 267 193 237 184 178 38 62 50 122 115 82 78 97 92 77 279 306 262 289 323 292 328 327 254 243 572 751 645 741 804 737 689 751 606 564 1st Quarter 1,968 2nd Quarter 2,282 500 500 500 500 Jan. Feb. March April May June July Aug. Sept. Oct. 64 66 57 90 70 66 68 45 104 92 161 132 214 224 202 324 153 142 2</th><th>Jan. Feb. March April May June July Aug. Sept. Oct. Nov. 41 114 89 103 93 96 90 90 76 66 48 214 269 244 227 273 267 193 237 184 178 187 38 62 50 122 115 82 78 97 92 77 72 279 306 262 289 323 292 328 327 254 243 216 572 751 645 741 804 737 689 751 606 564 523 1st Quarter 1,968 2nd Quarter 2,282 5</th><th>Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec. 41 114 89 103 93 96 90 90 76 66 48 54 214 269 244 227 273 267 193 237 184 178 187 236 38 62 50 122 115 82 78 97 92 77 72 45 279 306 262 289 323 292 328 327 254 243 216 188 572 751 645 741 804 737 689 751 606 564 523 523 1st Quarter 1,968 2nd Quarter 2,282 FourthQuarter 1,810 First Quarter 1,968 2nd Quarter 2,282 Aug. Sept. Oct. Nov. Dec. 64 666 57 90 70<</th></td<></th>	Jan. Feb. March April May June July Aug. Sept. 41 114 89 103 93 96 90 90 76 214 269 244 227 273 267 193 237 184 38 62 50 122 115 82 78 97 92 279 306 262 289 323 292 328 327 254 572 751 645 741 804 737 689 751 606 1st Quarter 1,968 2nd Quarter 2,282 572 50 <td< th=""><th>Jan. Feb. March April May June July Aug. Sept. Oct. 41 114 89 103 93 96 90 90 76 66 214 269 244 227 273 267 193 237 184 178 38 62 50 122 115 82 78 97 92 77 279 306 262 289 323 292 328 327 254 243 572 751 645 741 804 737 689 751 606 564 1st Quarter 1,968 2nd Quarter 2,282 500 500 500 500 Jan. Feb. March April May June July Aug. Sept. Oct. 64 66 57 90 70 66 68 45 104 92 161 132 214 224 202 324 153 142 2</th><th>Jan. Feb. March April May June July Aug. Sept. Oct. Nov. 41 114 89 103 93 96 90 90 76 66 48 214 269 244 227 273 267 193 237 184 178 187 38 62 50 122 115 82 78 97 92 77 72 279 306 262 289 323 292 328 327 254 243 216 572 751 645 741 804 737 689 751 606 564 523 1st Quarter 1,968 2nd Quarter 2,282 5</th><th>Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec. 41 114 89 103 93 96 90 90 76 66 48 54 214 269 244 227 273 267 193 237 184 178 187 236 38 62 50 122 115 82 78 97 92 77 72 45 279 306 262 289 323 292 328 327 254 243 216 188 572 751 645 741 804 737 689 751 606 564 523 523 1st Quarter 1,968 2nd Quarter 2,282 FourthQuarter 1,810 First Quarter 1,968 2nd Quarter 2,282 Aug. Sept. Oct. Nov. Dec. 64 666 57 90 70<</th></td<>	Jan. Feb. March April May June July Aug. Sept. Oct. 41 114 89 103 93 96 90 90 76 66 214 269 244 227 273 267 193 237 184 178 38 62 50 122 115 82 78 97 92 77 279 306 262 289 323 292 328 327 254 243 572 751 645 741 804 737 689 751 606 564 1st Quarter 1,968 2nd Quarter 2,282 500 500 500 500 Jan. Feb. March April May June July Aug. Sept. Oct. 64 66 57 90 70 66 68 45 104 92 161 132 214 224 202 324 153 142 2	Jan. Feb. March April May June July Aug. Sept. Oct. Nov. 41 114 89 103 93 96 90 90 76 66 48 214 269 244 227 273 267 193 237 184 178 187 38 62 50 122 115 82 78 97 92 77 72 279 306 262 289 323 292 328 327 254 243 216 572 751 645 741 804 737 689 751 606 564 523 1st Quarter 1,968 2nd Quarter 2,282 5	Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec. 41 114 89 103 93 96 90 90 76 66 48 54 214 269 244 227 273 267 193 237 184 178 187 236 38 62 50 122 115 82 78 97 92 77 72 45 279 306 262 289 323 292 328 327 254 243 216 188 572 751 645 741 804 737 689 751 606 564 523 523 1st Quarter 1,968 2nd Quarter 2,282 FourthQuarter 1,810 First Quarter 1,968 2nd Quarter 2,282 Aug. Sept. Oct. Nov. Dec. 64 666 57 90 70<

What Can Be Done?

- Don't irrigate Florida Friendly Landscaping
 - <u>http://duval.ifas.ufl.edu/lg_florida_yards.shtml</u>
 - <u>http://floridayards.org/</u>
 - Better development practices
 - Flip side jobs and economy
- Efficient irrigation
 - Micro and drip irrigation
 - Smart controllers
- Rainwater/greywater harvesting not very realistic
- Make it expensive to use too much. Go after waste and drive efficiency with cost.
- Change societal behavior The hardest but most sustainable thing that can be done



