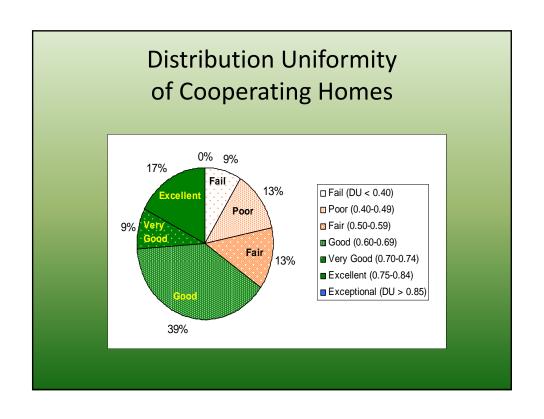
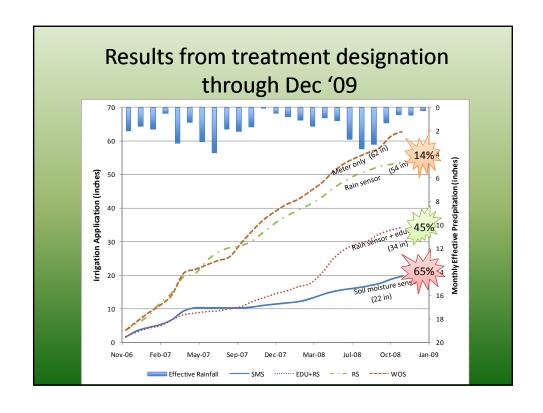
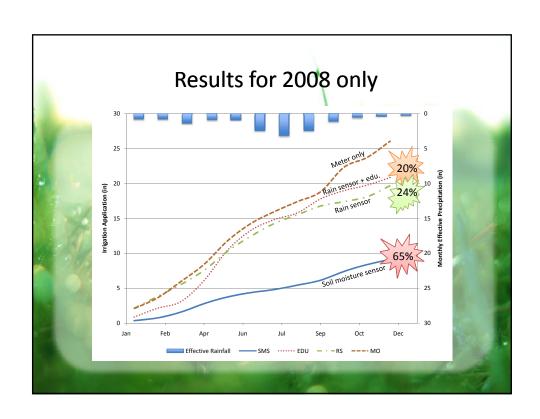


Estimated water use statistics two years prior to the study beginning, used for treatment determination.

		ed Irrigatio ion Depth		Estimated Irrigation Water Volume Usage (gal/30d)			
Quartile	Average	Min.	Max.	Average	Min.	Max.	
Low	1.2	0.8	1.4	5,029	1,875	9,000	
Medium	2.4	1.6	3.4	9,999	4,281	17,063	
High	5.3	3.6	8.4	19,517	6,719	33,000	









Average Number of													
Irrigation Events per Month													
		Number of Irrigation Events											
			I <sub>actual</sub> <sup>Z</sup>	$N^{Y}$	Max	Min	Std Dev	CV	$I_{calc}^{T}$				
			$(\#^S/_{mth})$	(#)	(#/mth)	(#/mth)	(#/month)	(%)	(#/month)				
ıt <sup>R</sup>	SMS		2.1c <sup>Q</sup>	185	11	0	2.8	136					
Treatment <sup>R</sup>	RS		4.7a	195	22	0	5.6	114	4				
eatı	MO		5.2a	173	29	0	6.5	125					
Tre	EDU		3.6b	187	20	0	4.1	113					
	2007	Spring	N	_	_	_	_	_	_				
ar		Summer	2.1	32	21	0	4.3	210	5				
Season <sup>p</sup> by Year		Fall	4.5	81	29	0	6.7	153	4				
		Winter	4.1	46	21	0	4.9	137	2				
	2008	Spring	5.6a	144	29	0	5.6	109	7				
		Summer	4.1b	138	26	0	5.0	135	3				
		Fall	2.8c	117	20	0	3.6	143	5				
		Winter	3.5bc	138	29	0	4.7 <sup>o</sup>	151	2				

Note: Uppercase superscript letters indicate footnotes.

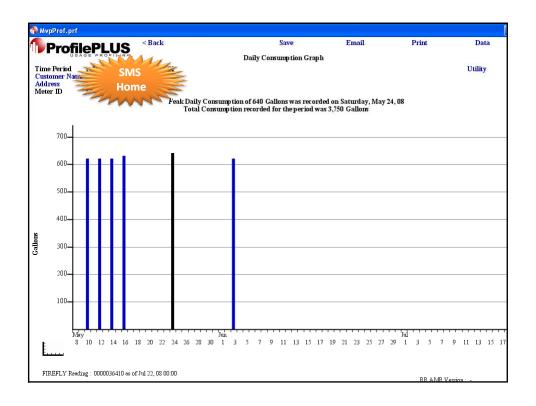
<sup>&</sup>lt;sup>Z</sup>Monthly average number of irrigation events applied.

 $<sup>^{</sup>Y}$  N = number of observations in the comparison.

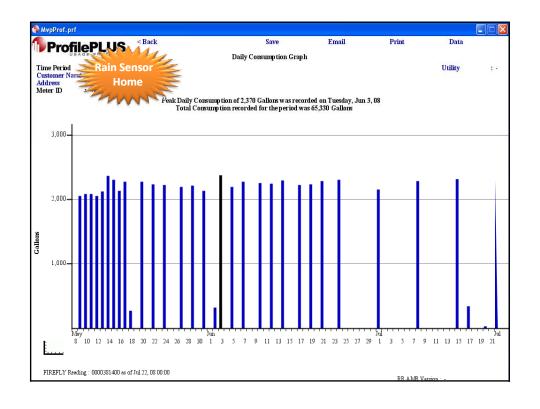
<sup>&</sup>lt;sup>T</sup>Number of irrigation events per month, calculated from the SWB.

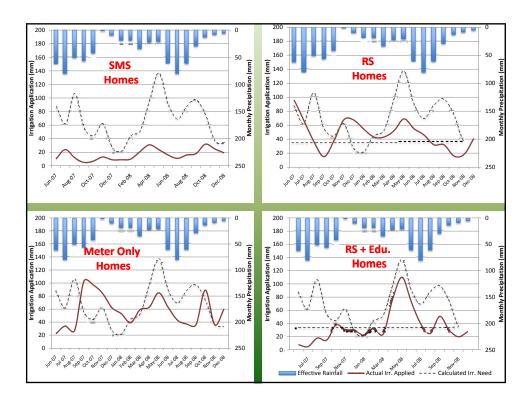
S Conversion: 1 inch = 25.4 mm

R Treatments are: SMS, time-based controller plus soil moisture sensor system; RS, time-based controller plus









# Summary

- The soil moisture sensor group
  - has statistically the lowest cumulative and mean irrigation application
  - least number of weekly irrigation events
- By inspection of the frequency of the irrigation events for each treatment (from AMR data)
  - the soil moisture sensor effectively bypasses irrigation events
    - this is the only treatment in which the range of monthly irrigation events is successfully governed

# Next Household Phase Lessons Learned

- Location
  - Socioeconomics
  - Neighborhood aesthetics
- Educational Materials
  - Type
  - Distribution
    - Method
    - Timing
- Water Source Watering Day Restrictions

## Thank You

I will gladly answer any questions...

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assistance and on this project.

### Average irrigated areas for each of the treatments. Irrigated Area (ft2) Treatment Med Min Max Mean SMS 5,318 5,176 2,018 8,605 RS 7,279 5,919 3,899 18,976 MO 7,118 6,559 2,929 12,773 EDU 10,736 6,113 6,042 2,788