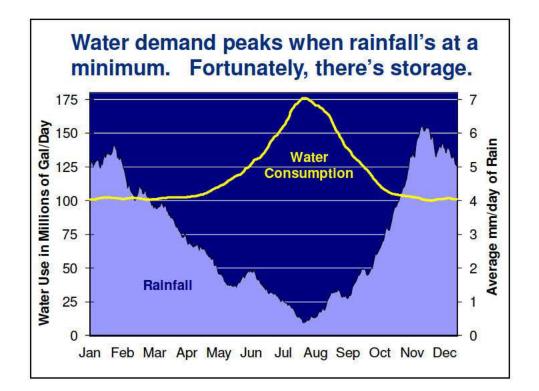
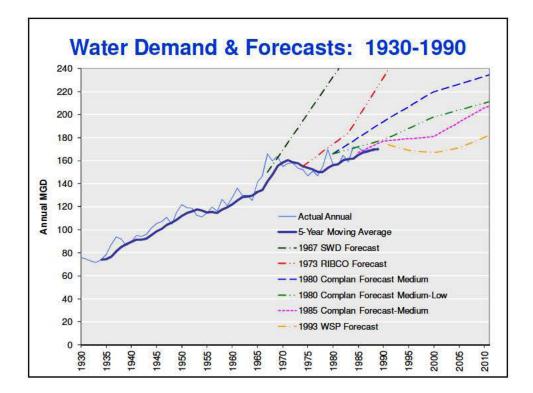
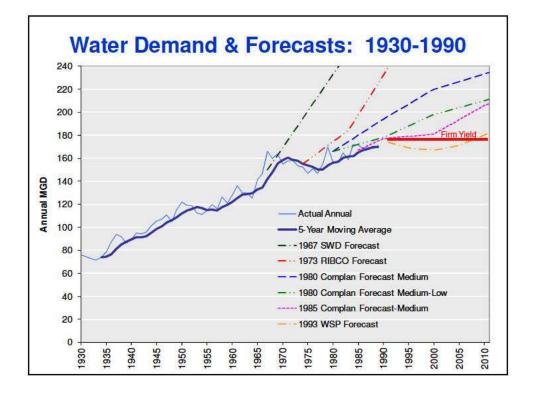


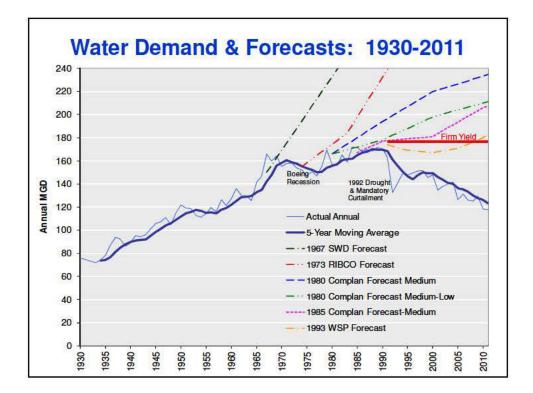
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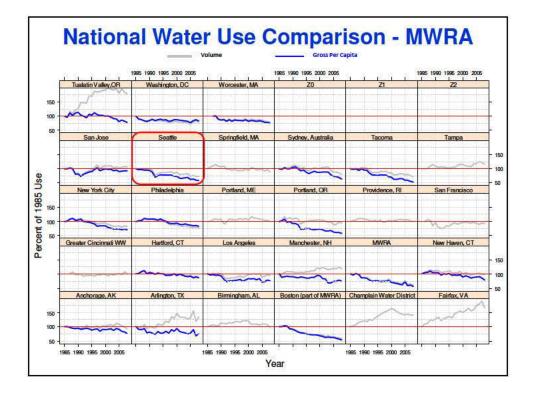


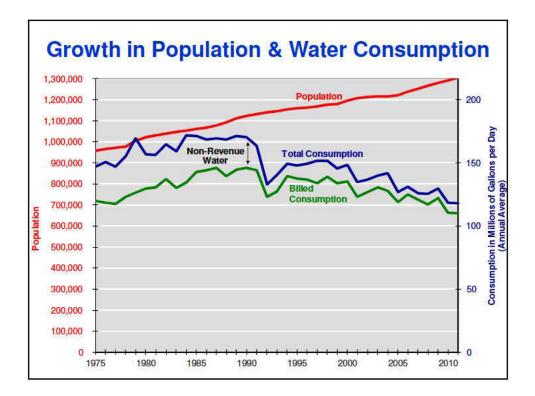




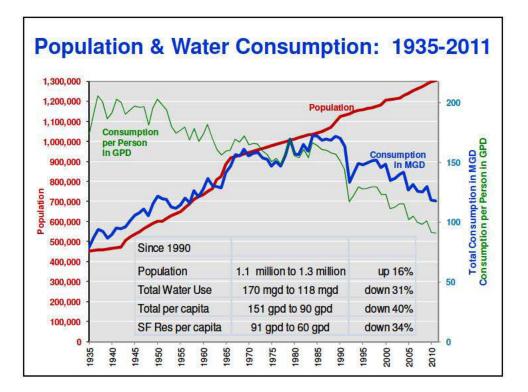


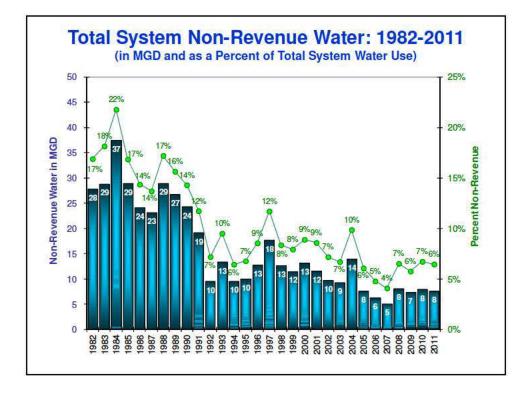


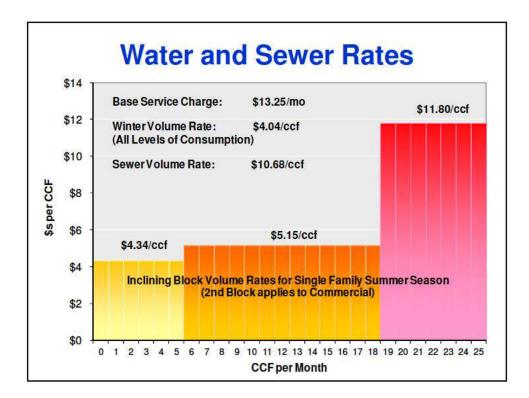


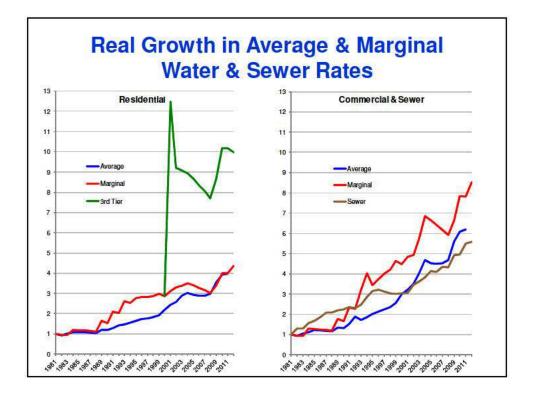


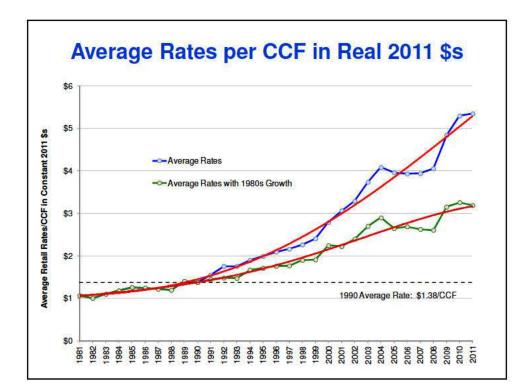


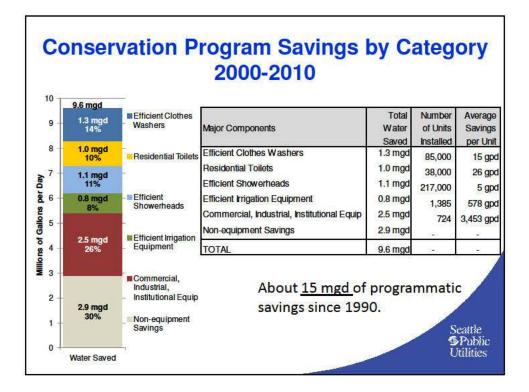


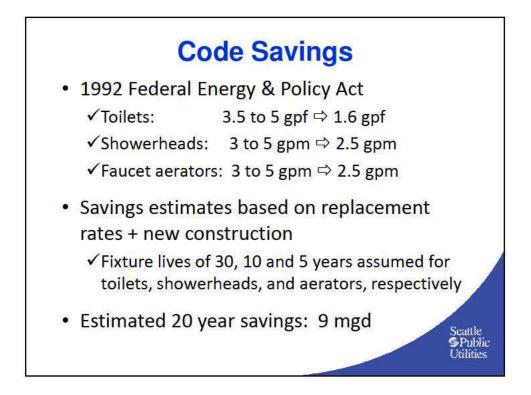


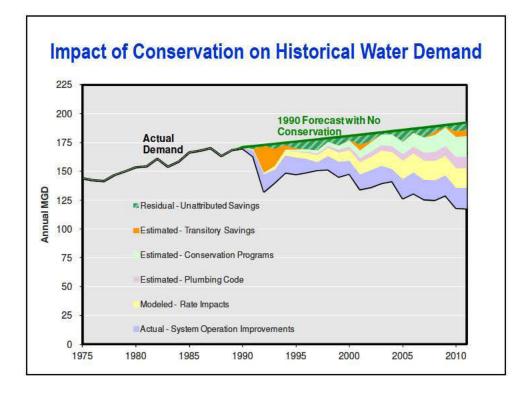


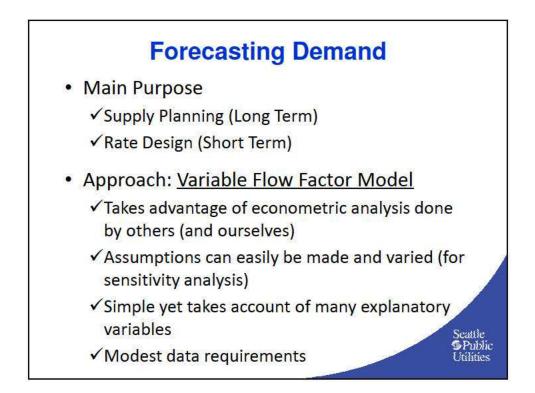


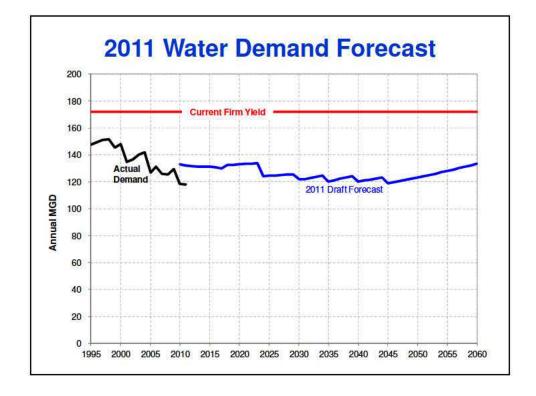


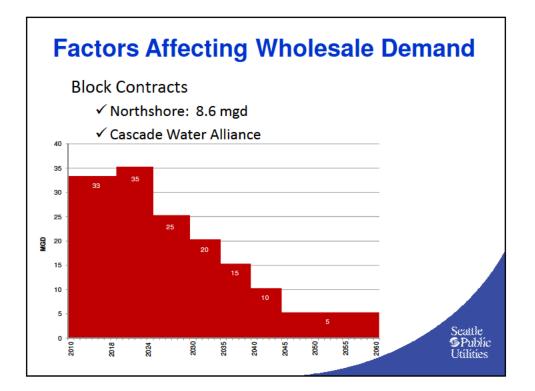


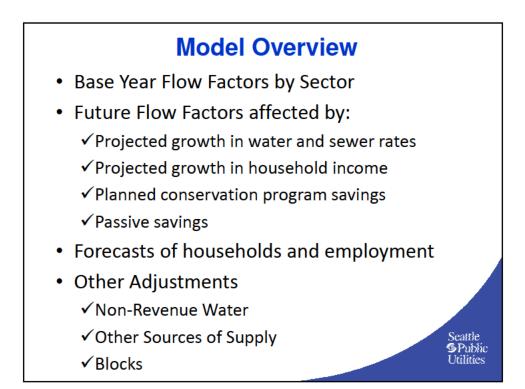


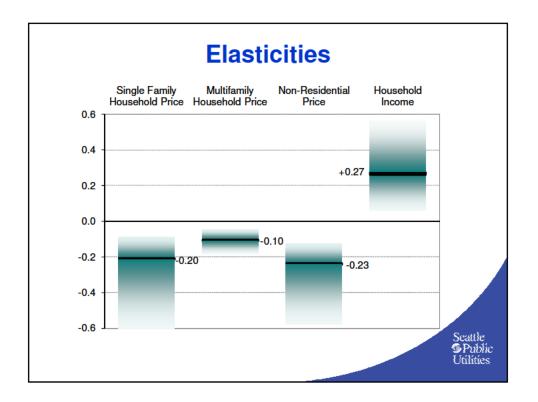




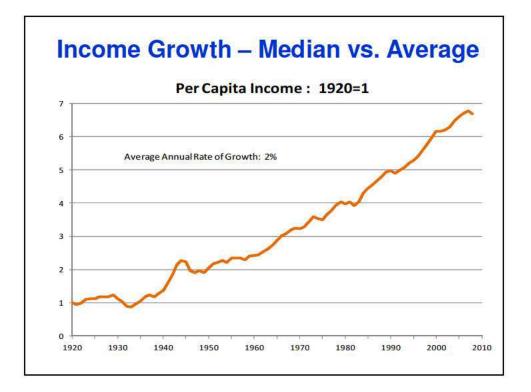


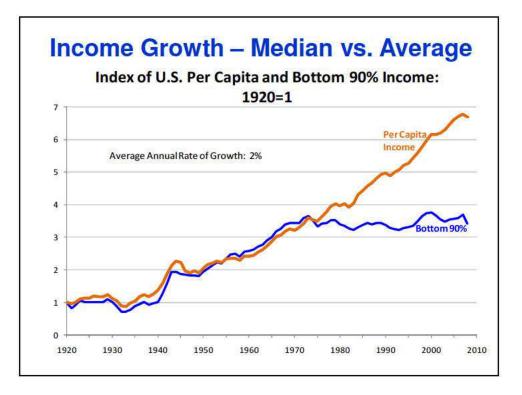


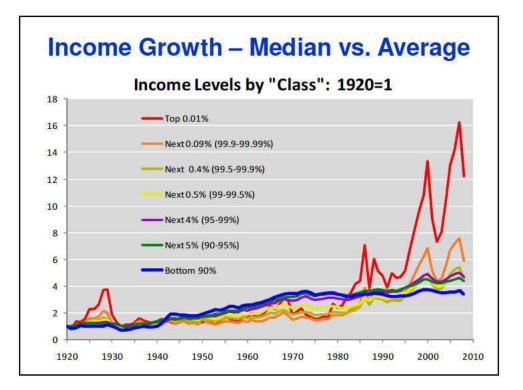


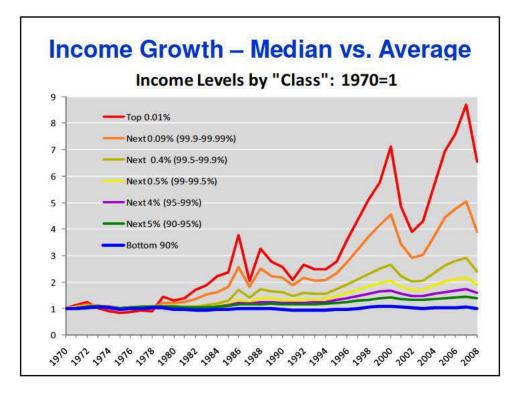










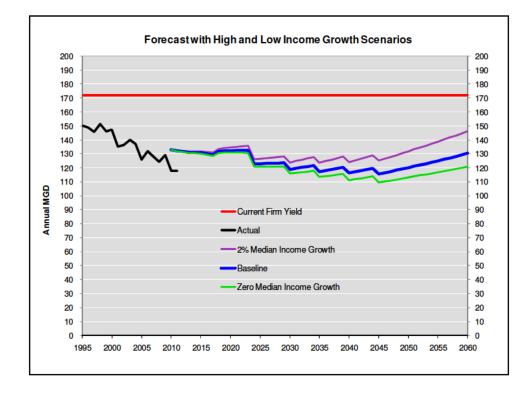


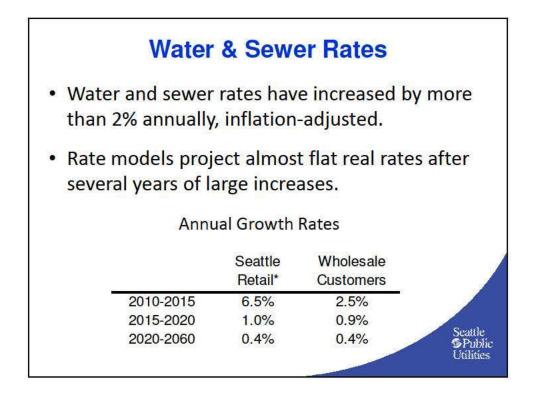
## Income Growth – Median vs. Average

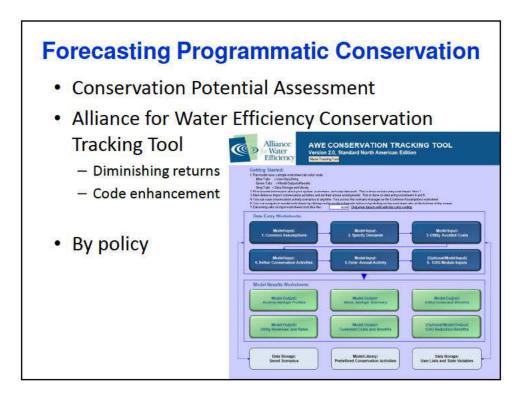
## Implications for forecast of income growth

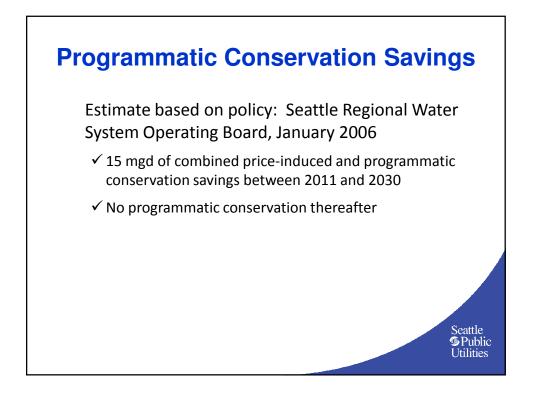
(Assuming per capita income growth rate of about 2% continues)

		Annual Median
Class Warfare Scenarios	Income Distribution	Income Growth
Wealthy-Take-All Continues	Gets worse	0%
Wealthy Take Most	Gets worse more slowly	0% - 2%
Rising Tide Lifts All Boats	Holds constant	2%
Wealthy Get Smaller Share of New Growth	Improves	> 2%
<ul> <li>Model assumption: 0.9</li> </ul>	%	Seat S Pr Utili

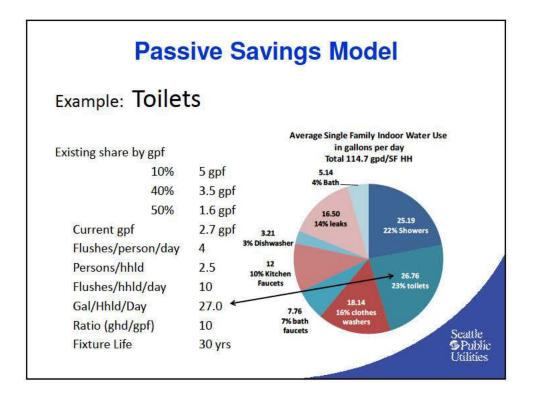


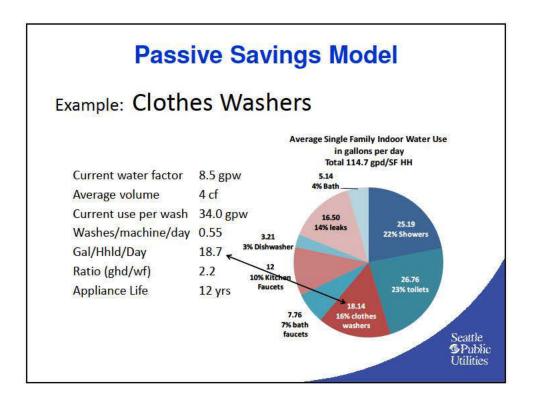






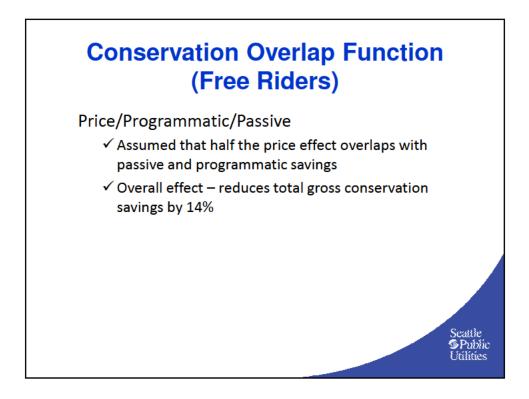


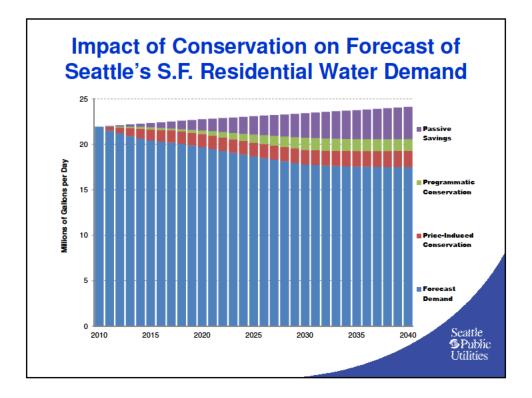


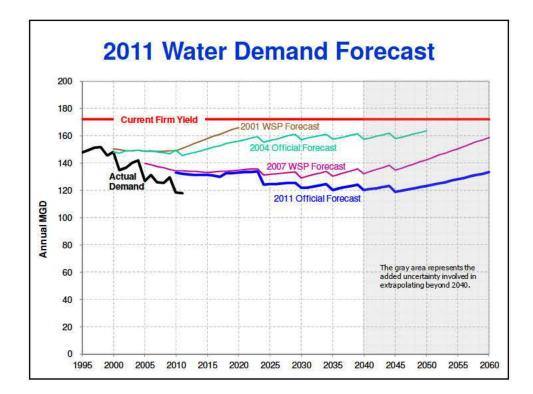


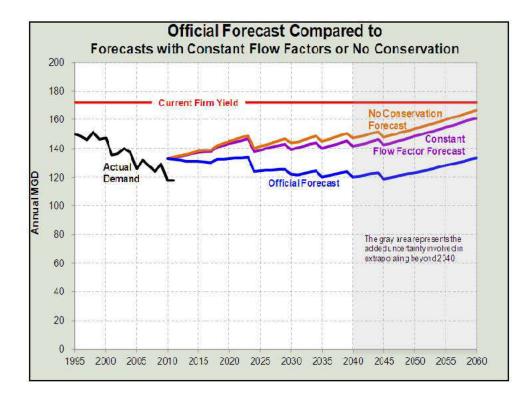
	Code		Energy	N	lost Eff.	s	ingle Family	v Calculatio	nc		Average
		- Horizntl	Star	CEE Ener		Code	ES	CEE	ME		SF WF
1996	11	11	9.5	6	57 5141	90%	8%	2%	0%	100%	10.8
1997	11	11	9.5	6		87%	10%	4%	0%	100%	10.7
1998	11	11	9.5	6		83%	11%	5%	0%	100%	10.6
1999	11	11	9.5	6		80%	13%	7%	0%	100%	10.5
2000	11	11	9.5	6		77%	15%	9%	0%	100%	10.4
2001	9.5	9.5	7.5	6		73%	16%	10%	0%	100%	8.8
2002	9.5	9.5	7.5	6		70%	18%	12%	0%	100%	8.7
2003	9.5	9.5	7.5	6		67%	20%	14%	0%	100%	8.6
2004	9.5	9.5	7.5	6		63%	22%	15%	0%	100%	8.5
2005	9.5	9.5	7.5	6		60%	23%	17%	0%	100%	8.4
2006	9.5	9.5	7.5	6		57%	25%	18%	0%	100%	8.4
2007	9.5	9.5	7.5	6		53%	27%	20%	0%	100%	8.3
2008	9.5	9.5	7.5	4.5		50%	28%	22%	0%	100%	7.8
2009	9.5	9.5	7.5	4.5		47%	30%	23%	0%	100%	7.7
2010	9.5	9.5	6	4.5		50%	25%	25%	0%	100%	7.4
2011	9.5	9.5	6	4	3.3	49%	30%	20%	1%	100%	7.3
2012	9.5	9.5	6	4	3.3	46%	32%	21%	1%		7.2
2013	9.5	9.5	6	4	3.3	43%	34%	22%	1%		7.0
2014	9.5	9.5	6	4	3.3	40%	36%	23%	1%		6.9
2015	8.5	6	4.5	3.3	3.3	19%	38%	24%	1%		5.2
2016	8.5	6	4.5	3.3	3.3	17%	40%	25%	1%		5.1
2017	8.5	6	4.5	3.3	3.3	16%	42%	26%	1%		5.0
2018	8.5	6	4.5	3.3	3.3	14%	44%	27%	1%		4.9
2019	8.5	6	4.5	3.3	3.3	13%	46%	28%	1%		4.8
2020	8.5	6	4.5	3.3	3.3	11%	48%	29%	1%		4.7
2030	8.5	4.5	4	3.3	3.3		60%	39%	1%		3.7

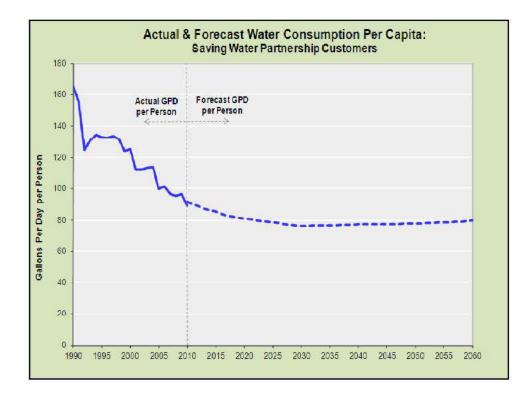
	Shower-		Clothes					
	heads	Toilets	Aerators	Washers	Total			
2020	-0.1	2.7	0.2	1.9	4.7			
2030	0.8	4.9	0.4	4.4 10.5				
2040	1.4	6.8	0.6	5.8 14.5				
2050	1.8	8.0	0.7	6.6 17.1				
2060	2.0	8.8	0.7	7.2	18.7			
	Single	Multi-	Non-					
	Family	family	Residential		Total			
2020	2.3	1.7	0.6		4.7			
2030	5.2	4.0	1.2	10.5				
2040	7.1	5.8	1.7		14.5			
2050	8.0	7.0	2.1		17.2			
2060	8.5	7.8	2.4		18.7			

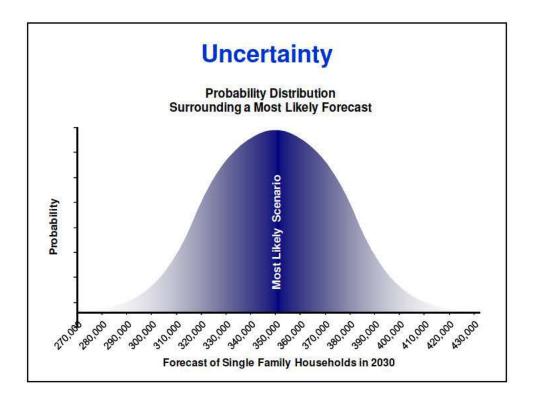


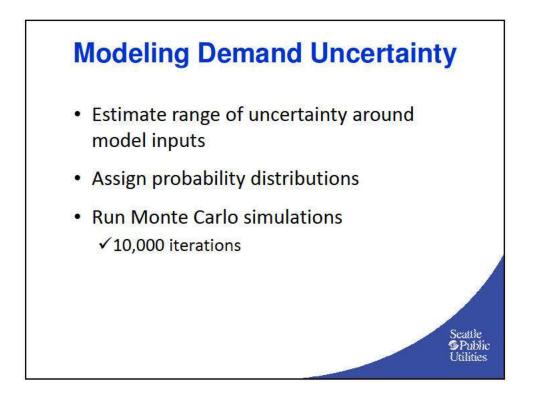


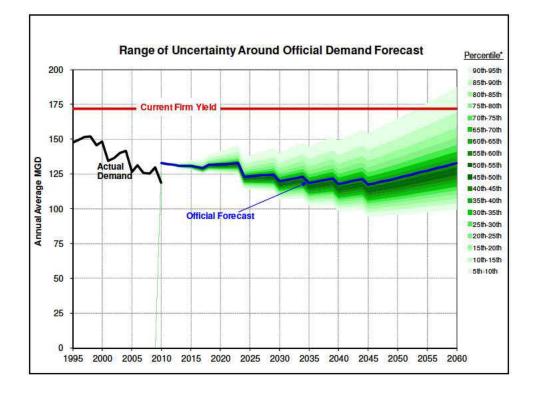


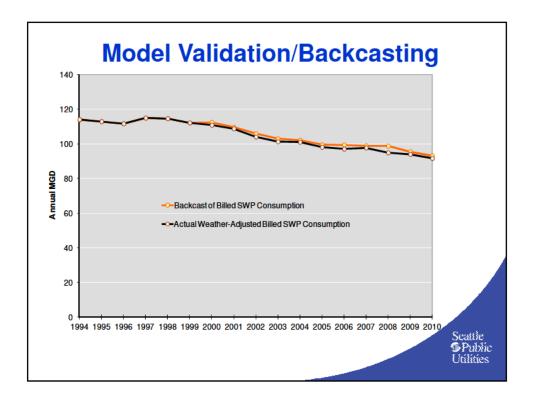












## Research Needs & Questions Household Income and Water Use End Use Studies – especially MF and CII Separating sources of conservation and accounting for overlap Modeling passive savings Future shock – what new technologies and trends can we foresee now? Technology tipping points

