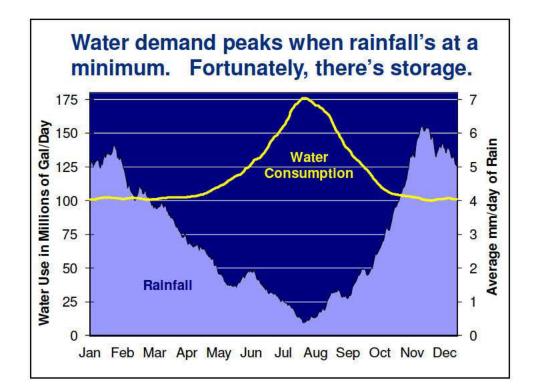
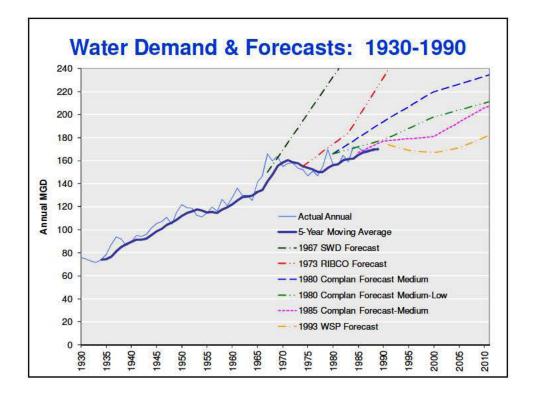
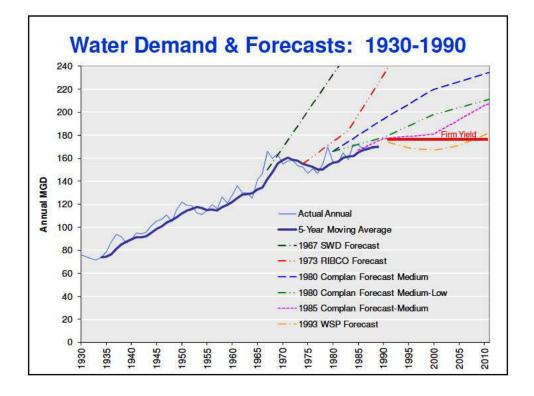


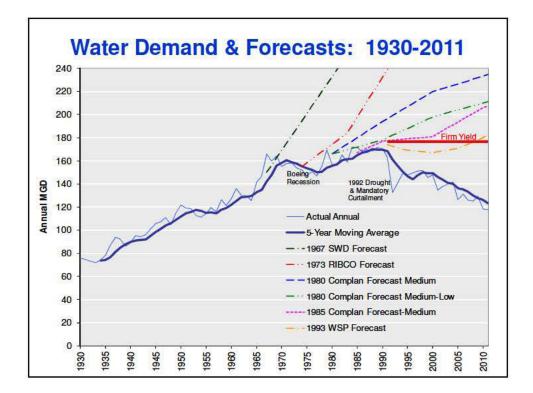
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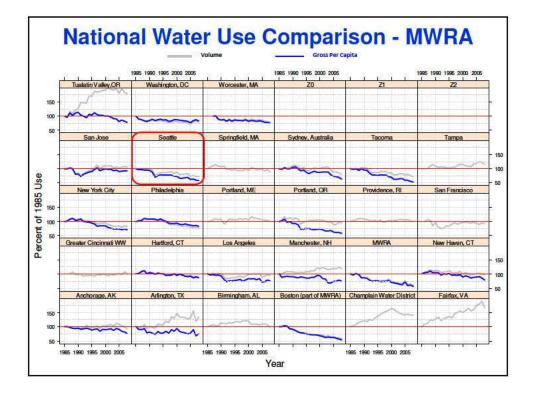


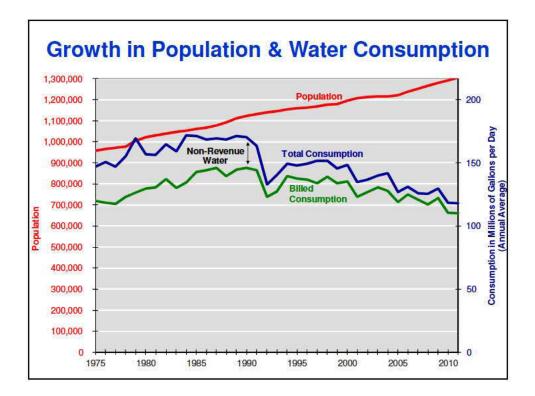




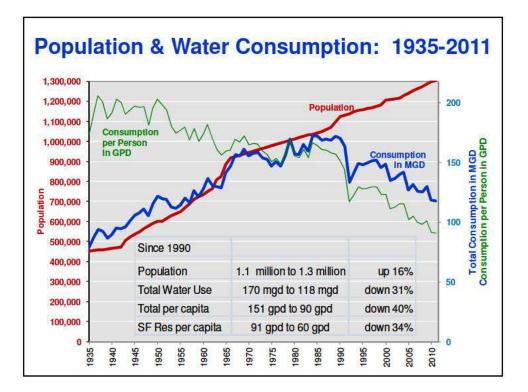


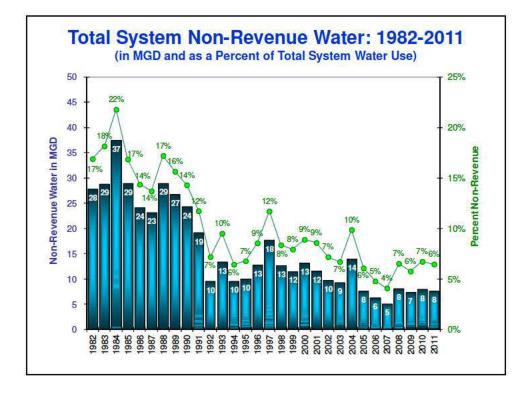


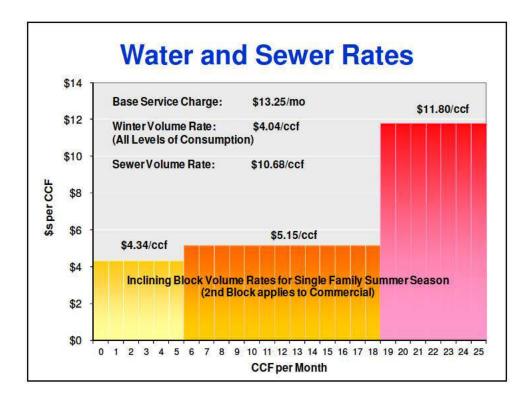


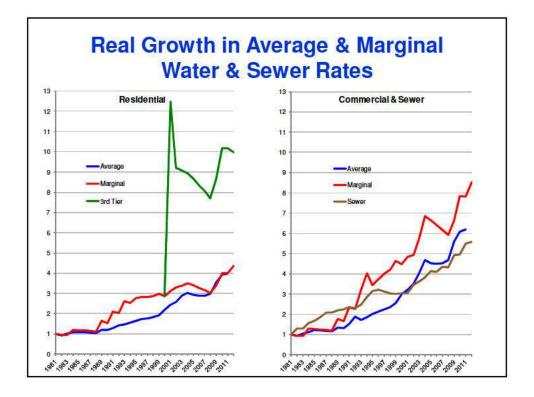


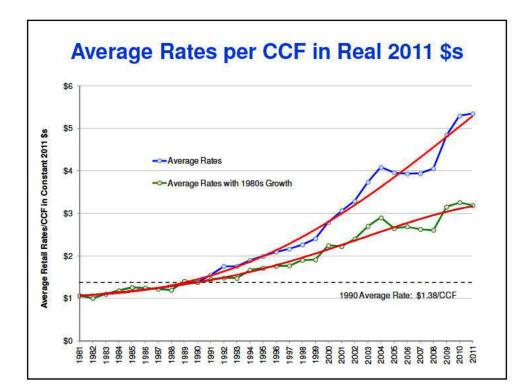


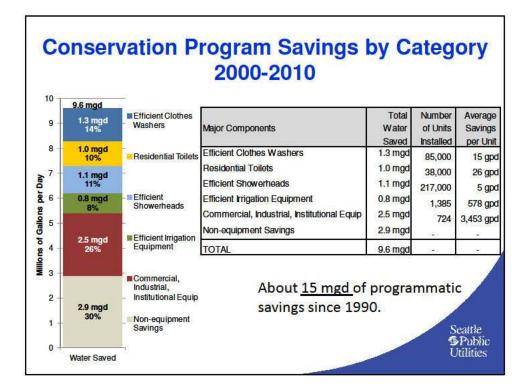




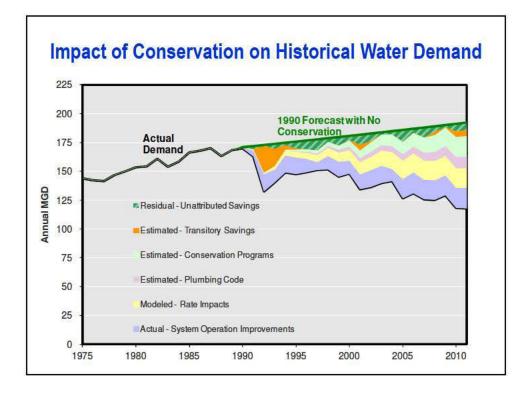


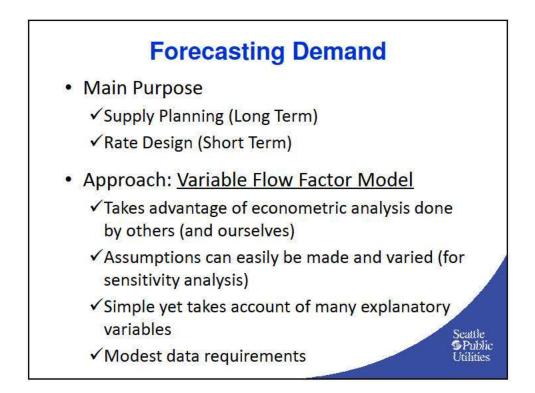


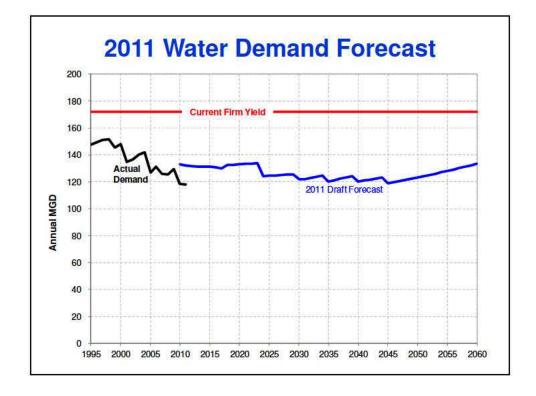


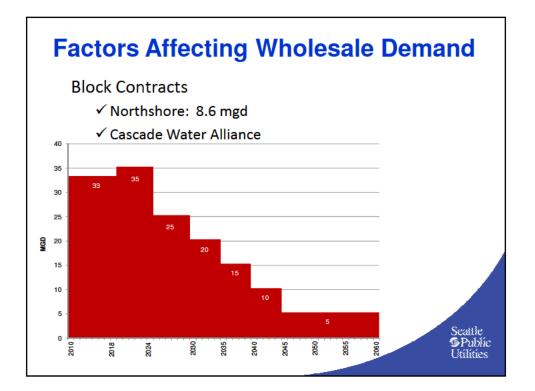


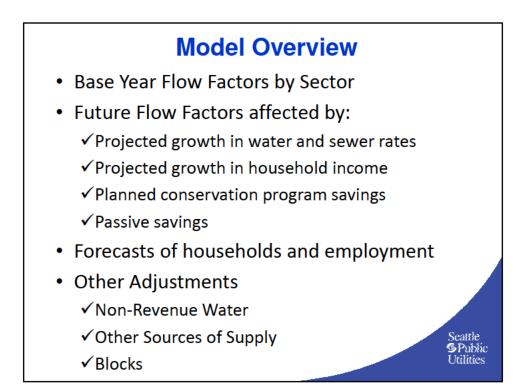


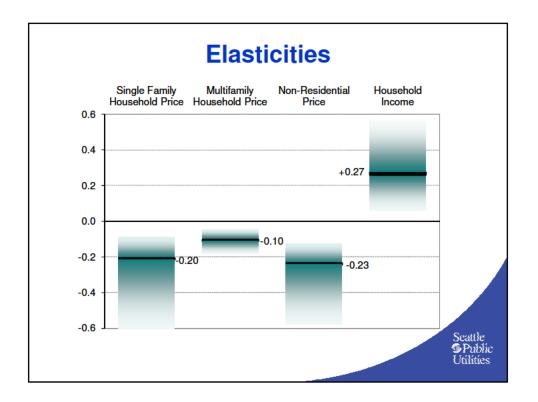




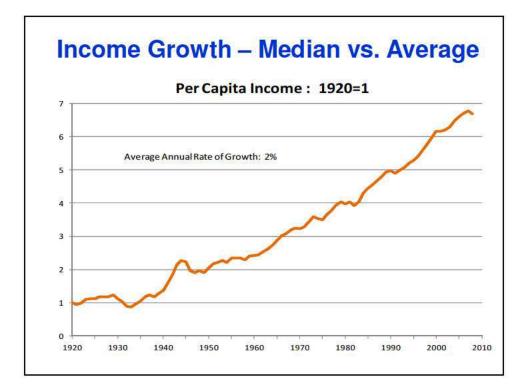


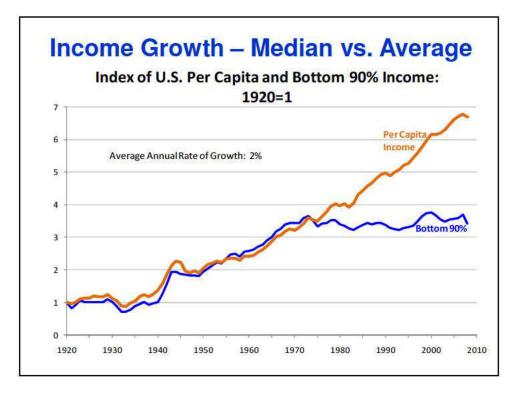


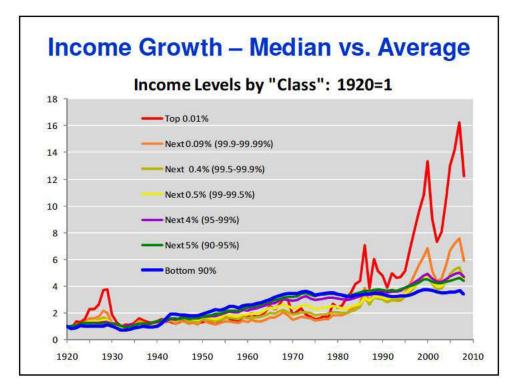


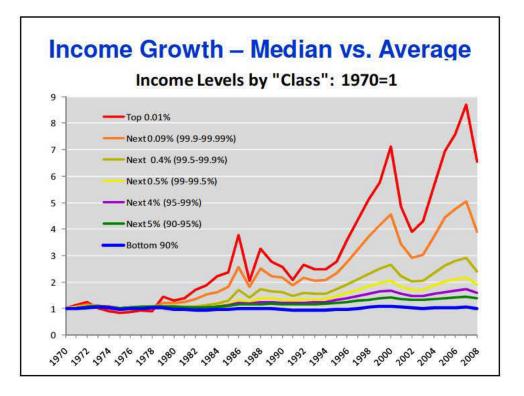










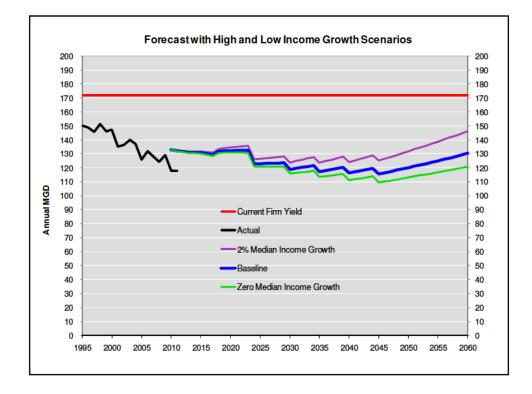


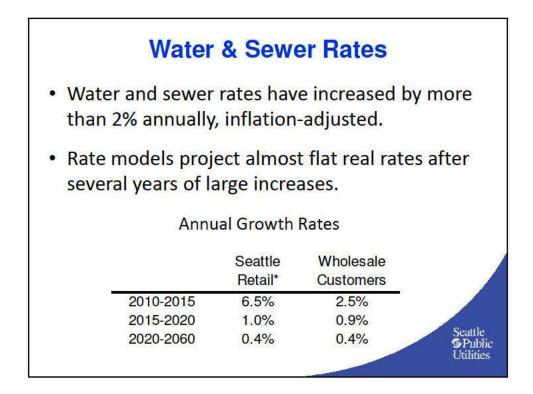
Income Growth – Median vs. Average

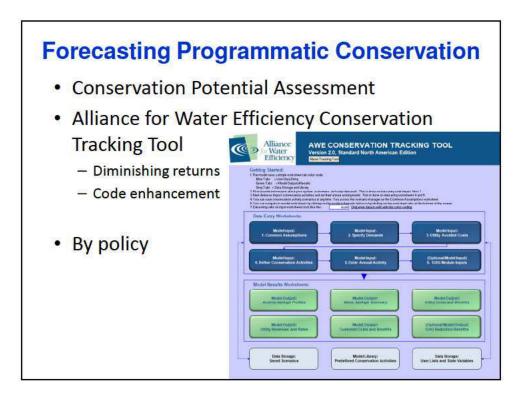
Implications for forecast of income growth

(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%
 Model assumption: 0.9 	%	Seat S Pr Utili

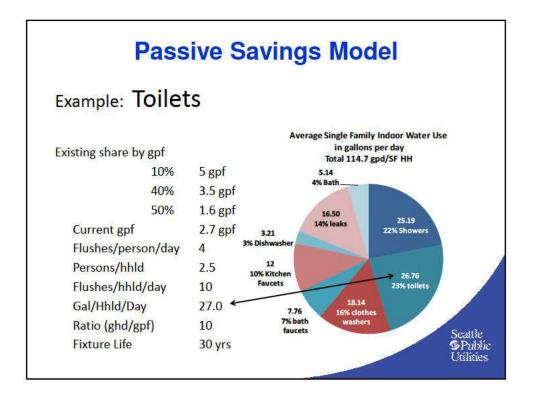


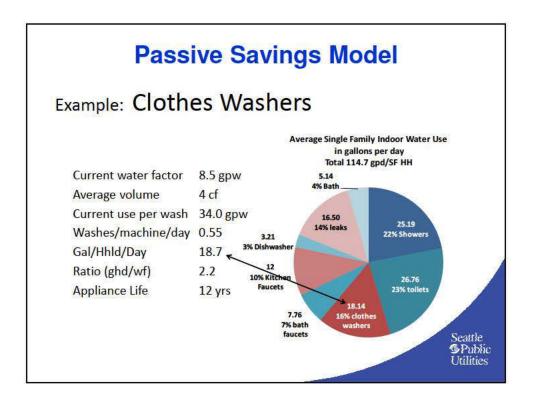






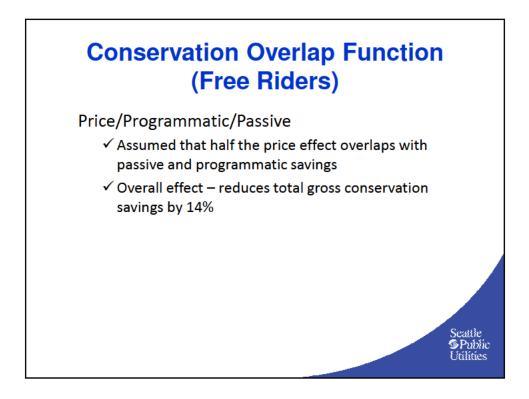


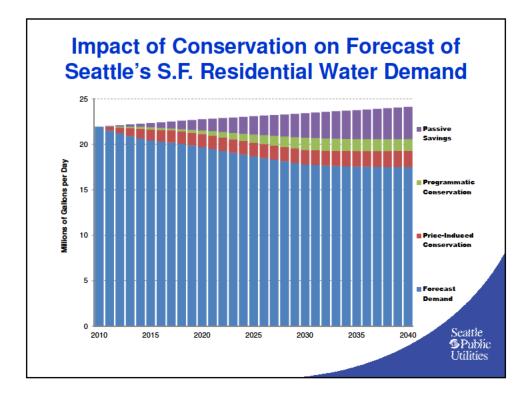


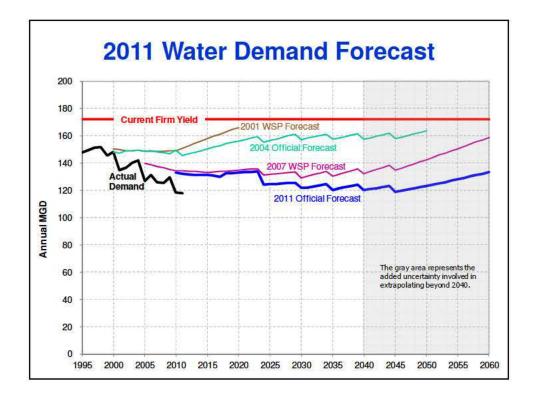


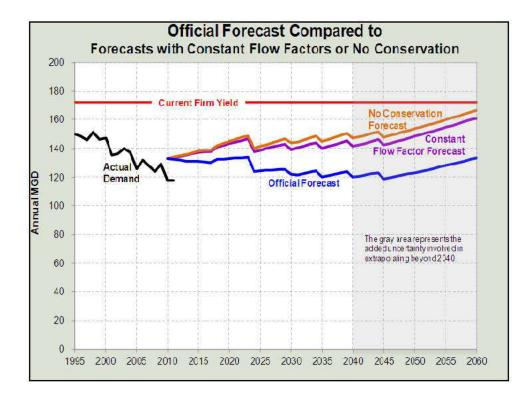
	Code		Energy	N	lost Eff.	s	ingle Family	v Calculatio	nc		Average
		- Horizntl	Star	CEE Ener		Code	ES	CEE	ME		SF WF
1996	11	11	9.5	6	57 5141	90%	8%	2%	0%	100%	10.8
1997	11	11	9.5	6		87%	10%	4%	0%	100%	10.7
1998	11	11	9.5	6		83%	11%	5%	0%	100%	10.6
1999	11	11	9.5	6		80%	13%	7%	0%	100%	10.5
2000	11	11	9.5	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

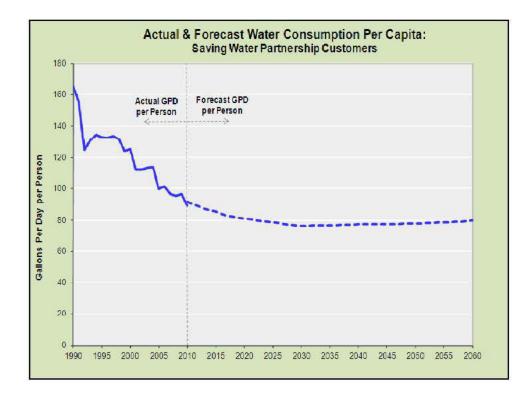
	Shower-		Clothes					
	heads	Toilets	Aerators	Washers	Total			
2020	-0.1	2.7	0.2	1.9	4.7			
2030	0.8	4.9	0.4	4.4 10.5				
2040	1.4	6.8	0.6	5.8 14.5				
2050	1.8	8.0	0.7	6.6 17.1				
2060	2.0	8.8	0.7	7.2	18.7			
	Single	Multi-	Non-					
	Family	family	Residential		Total			
2020	2.3	1.7	0.6		4.7			
2030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

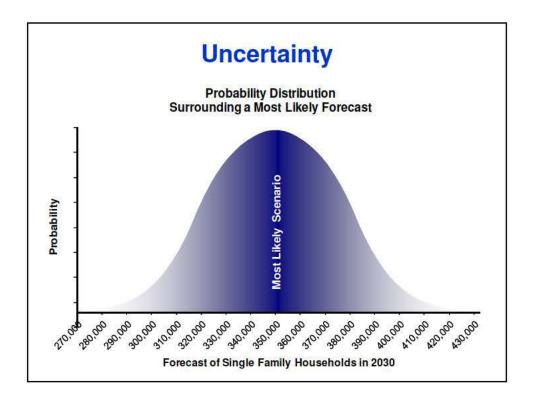


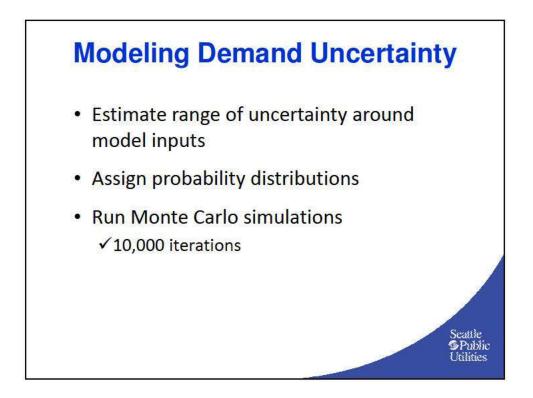


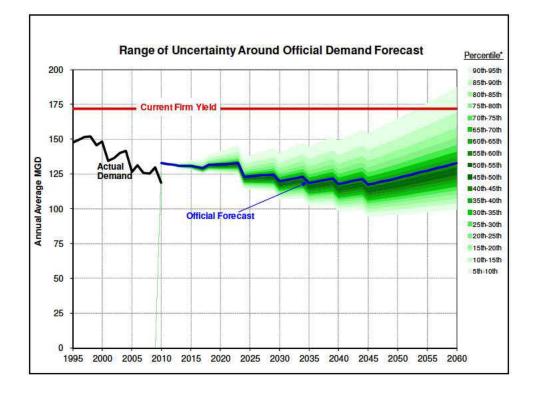


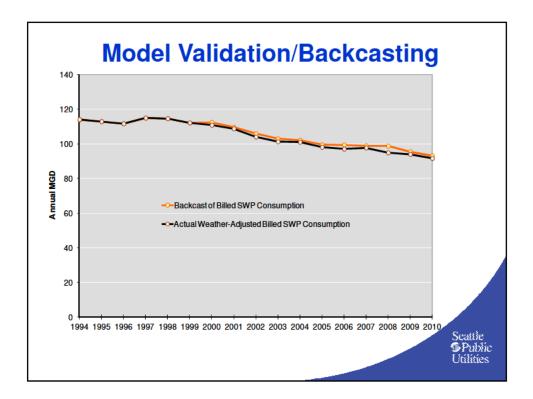












Research Needs & Questions Household Income and Water Use End Use Studies – especially MF and CII Separating sources of conservation and accounting for overlap Modeling passive savings Future shock – what new technologies and trends can we foresee now? Technology tipping points

