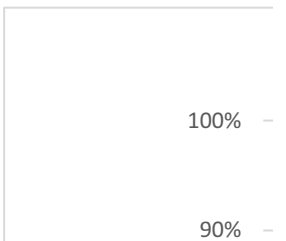
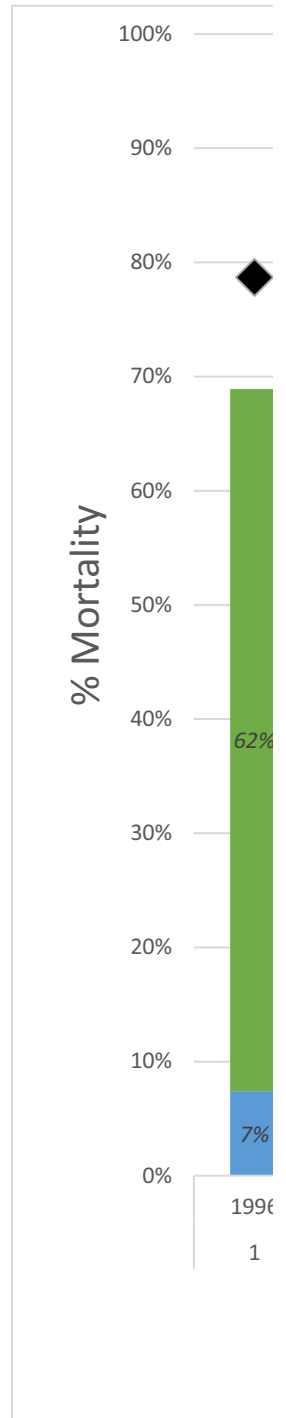
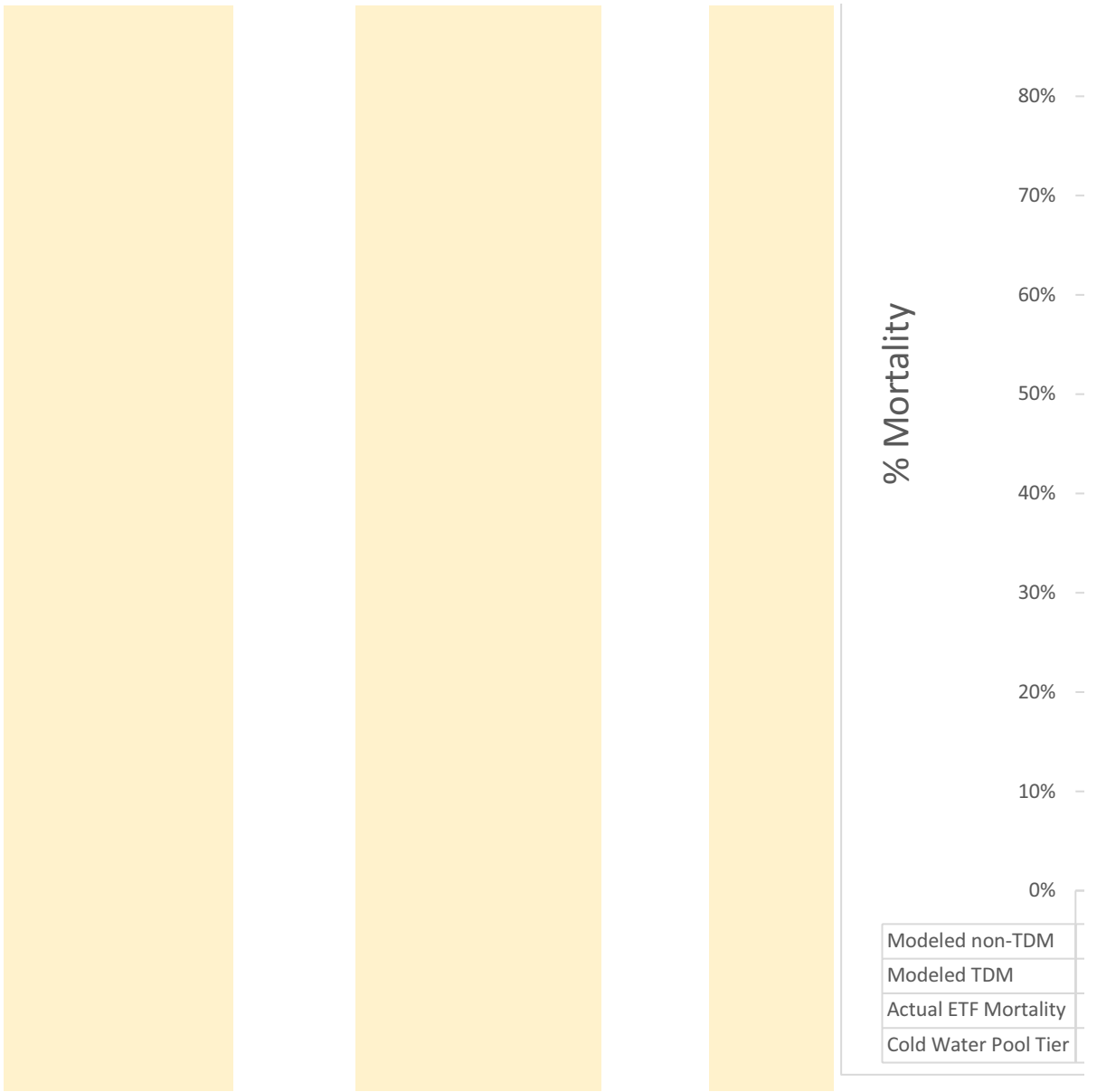
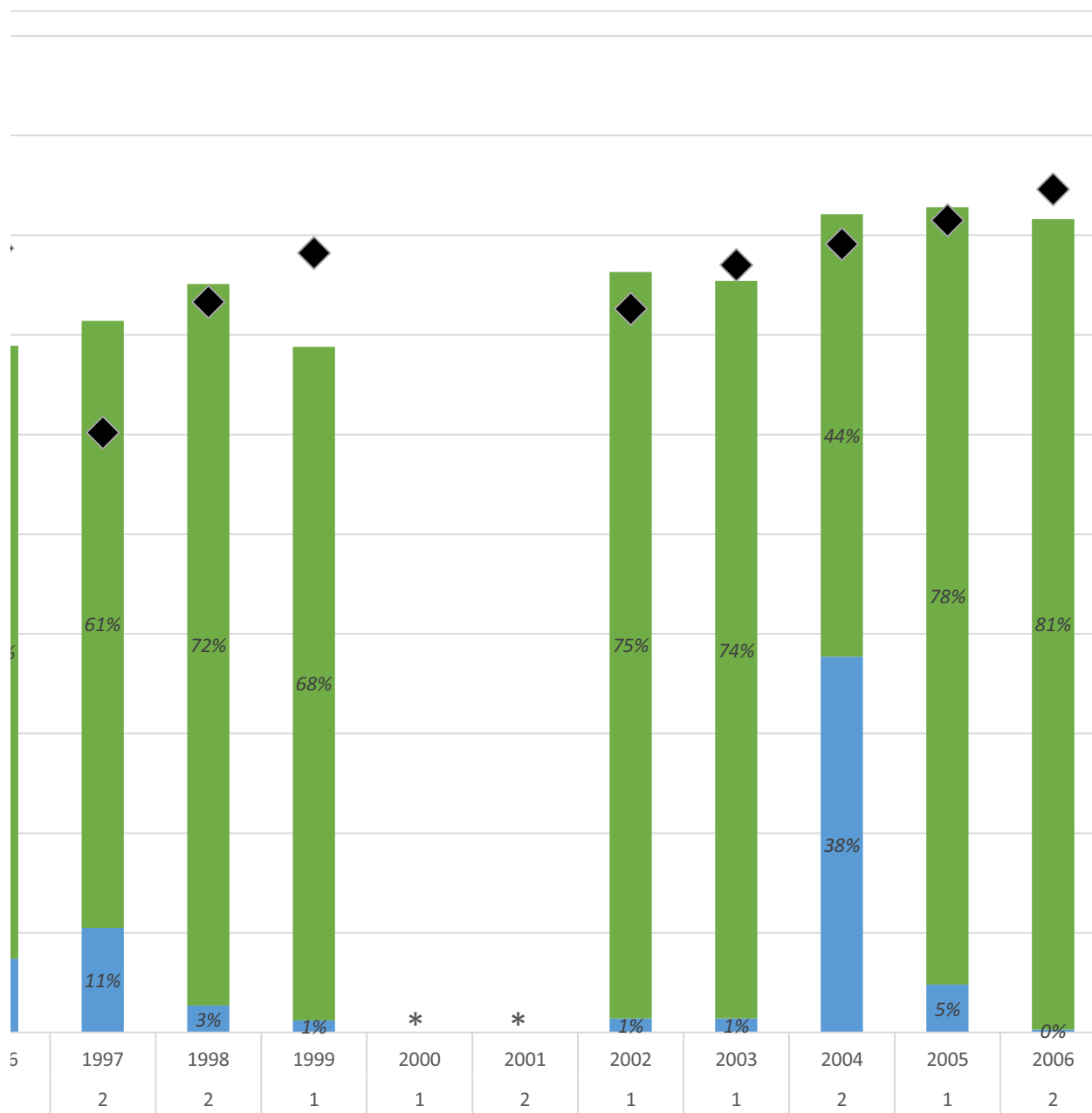


Water Year	ROCON		End of Sept. (MAF)	CCR daily average temp. (May - Oct.)	Modeled TDM	Modeled total ETF survival	Actual ETF Survival
	End of April (MAF)	Cold water pool tier					
Critical							
2008	2.95	3	1.38	54.6	40.90%	18.90%	17.50%
2014	2.41	4	1.16	56.9	77.00%	7.10%	5.90%
2015	2.66	3	1.6	56.7	85.40%	4.60%	4.20%
Average	2.68	3	1.38	56.1	67.80%	10.20%	9.20%
Dry							
2001	4.02	2	2.2	53			
2002	4.3	1	2.56	52.6	1.40%	23.70%	27.40%
2007	3.9	2	1.88	53.3	7.00%	29.60%	21.10%
2009	3	3	1.77	54.1	18.90%	24.00%	33.50%
2013	3.79	2	1.91	54	9.60%	25.30%	15.10%
Average	3.8	2	2.06	53.4	9.20%	25.60%	24.30%
Below Normal							
2004	4.06	2	2.18	53.5	37.70%	17.90%	20.90%
2010	4.39	1	3.32	52.2	0.00%	33.10%	37.50%
2012	4.44	1	2.59	52.4	0.00%	31.90%	26.90%
2016	4.23	1	2.81	53	2.30%		
Average	4.28	1	2.73	52.8	10.00%	27.60%	28.40%
Above Normal							
2000	4.15	1	2.99	52.7			
2003	4.54	1	3.16	52.6	1.40%	24.60%	23.00%
2005	4.21	1	3.04	53.2	4.80%	17.20%	18.50%
Average	4.3	1	3.06	52.8	3.10%	20.90%	20.80%
Wet							
1996	4.31	1	3.1		7.40%	31.10%	21.30%
1997	3.94	2	2.31		10.50%	28.60%	39.80%
1998	4.06	2	3.44	52.2	2.70%	24.90%	26.70%
1999	4.26	1	3.33	51.6	1.20%	31.20%	21.80%
2006	4.06	2	3.21	51.7	0.30%	18.40%	15.40%
2011	4.27	1	3.34	52.1	0.00%	33.90%	48.60%
Average	4.15	1	3.12	51.9	3.70%	28.00%	28.90%

Cold Water Pool Tier	Water Year	Modeled TDM	Modeled total ETF survival	Modeled total ETF mortality	Modeled non-TDM	Actual ETF Survival	Actual ETF Mortality
1	1996	7%	31%	69%	62%	21%	79%
2	1997	11%	29%	71%	61%	40%	60%
2	1998	3%	25%	75%	72%	27%	73%
1	1999	1%	31%	69%	68%	22%	78%
1	2000						
2	2001						
1	2002	1%	24%	76%	75%	27%	73%
1	2003	1%	25%	75%	74%	23%	77%
2	2004	38%	18%	82%	44%	21%	79%
1	2005	5%	17%	83%	78%	19%	82%
2	2006	0%	18%	82%	81%	15%	85%
2	2007	7%	30%	70%	63%	21%	79%
3	2008	41%	19%	81%	40%	18%	83%
3	2009	19%	24%	76%	57%	34%	67%
1	2010	0%	33%	67%	67%	38%	63%
1	2011	0%	34%	66%	66%	49%	51%
1	2012	0%	32%	68%	68%	27%	73%
2	2013	10%	25%	75%	65%	15%	85%
4	2014	77%	7%	93%	16%	6%	94%
3	2015	85%	5%	95%	10%	4%	96%
1	2016	2%					





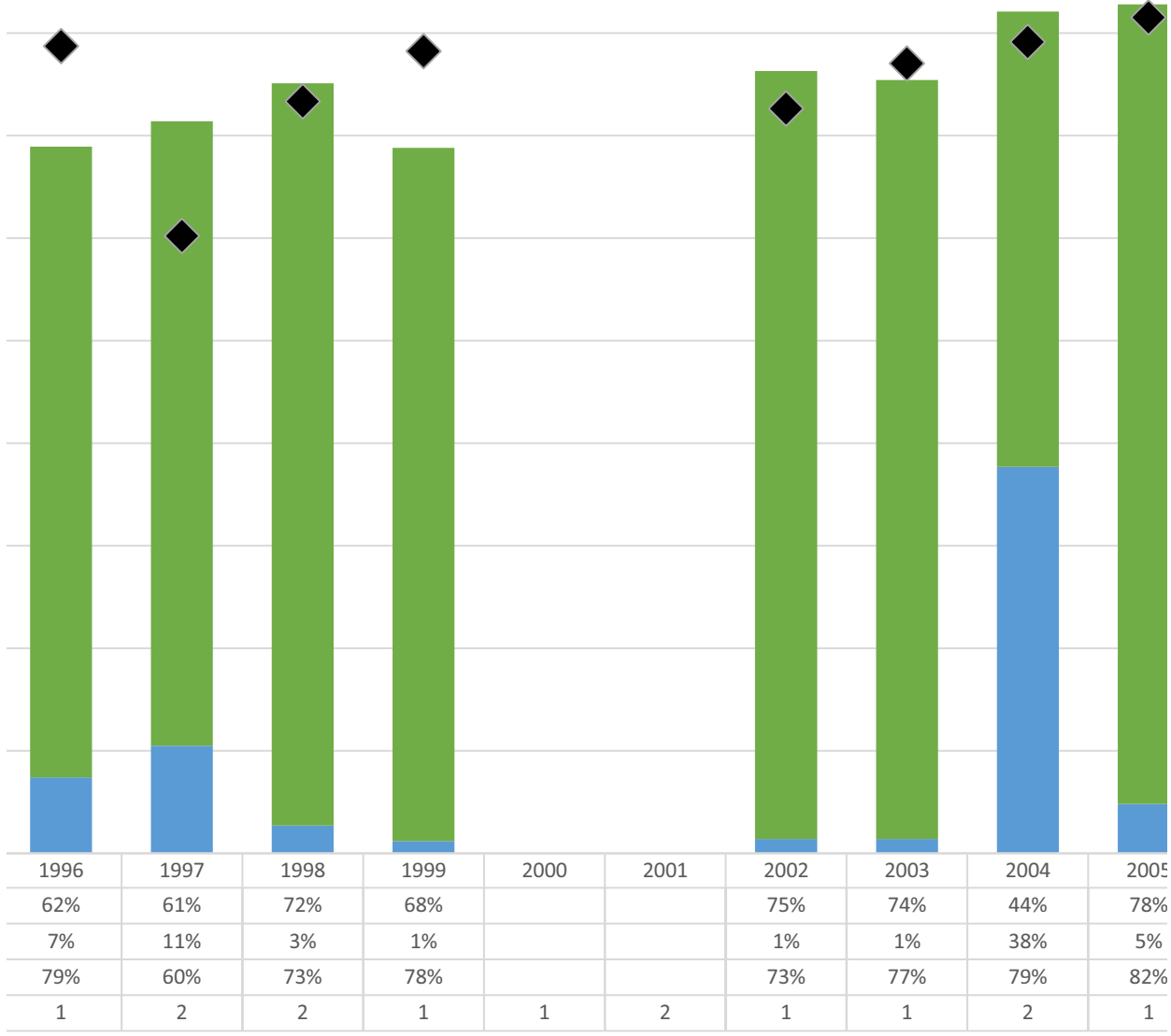


■ Modeled TDM

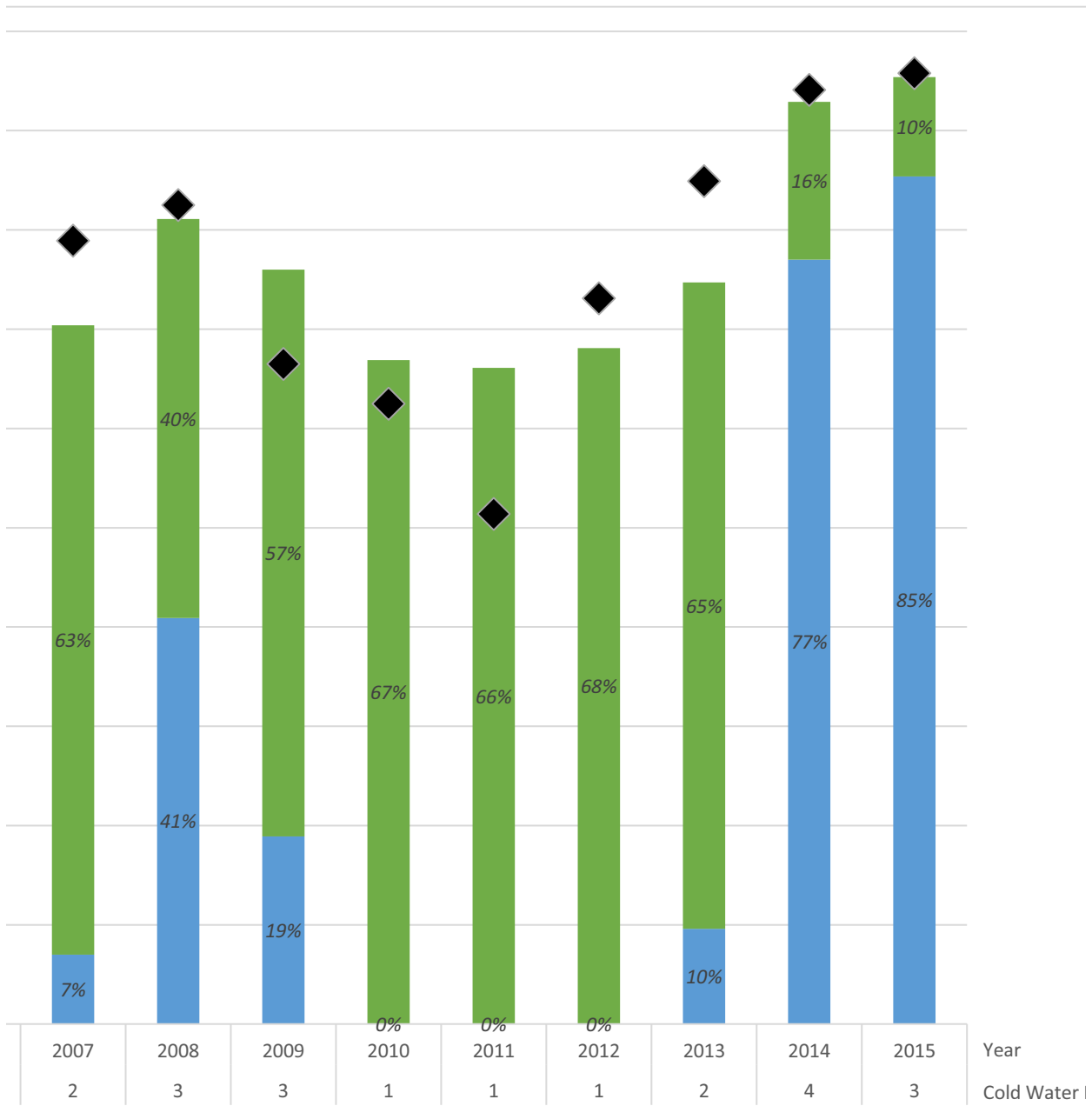
■ Modeled non-TDM

■ Modeled TDM

■ Modeled non-T



1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
62%	61%	72%	68%			75%	74%	44%	78%
7%	11%	3%	1%			1%	1%	38%	5%
79%	60%	73%	78%			73%	77%	79%	82%
1	2	2	1	1	2	1	1	2	1

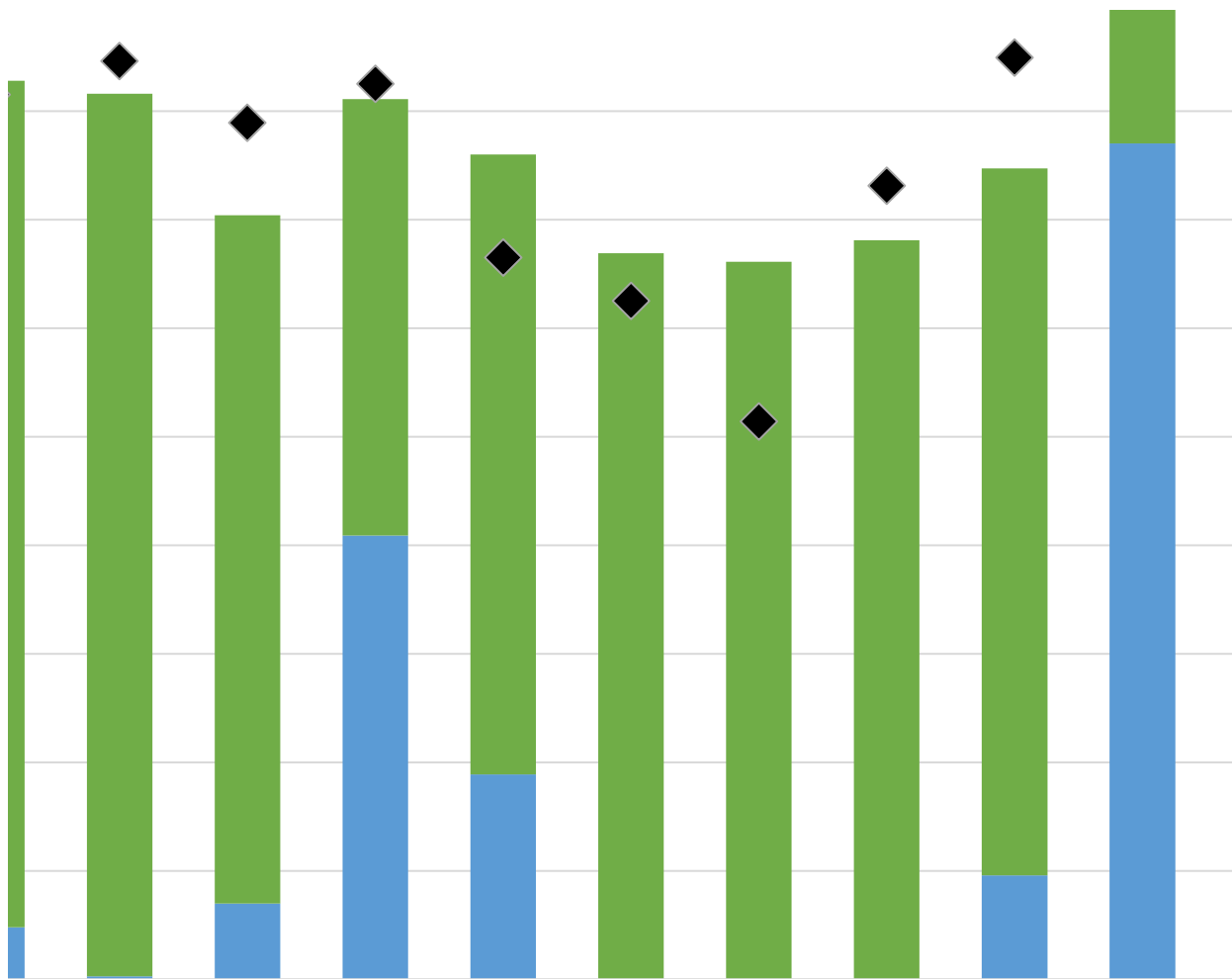


◆ Actual ETF Mortality

* Data Gap

DM ◆ Actual ETF Mortality

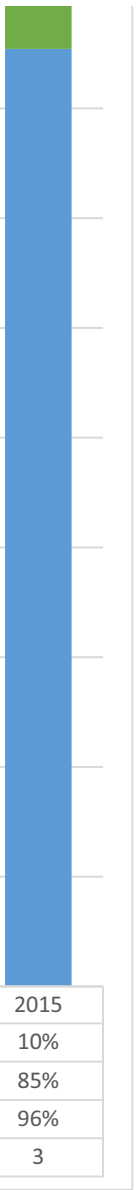




5	2006	2007	2008	2009	2010	2011	2012	2013	2014	
5	81%	63%	40%	57%	67%	66%	68%	65%	16%	
	0%	7%	41%	19%	0%	0%	0%	10%	77%	
5	85%	79%	83%	67%	63%	51%	73%	85%	94%	
	2	2	3	3	1	1	1	2	4	

Pool Tier





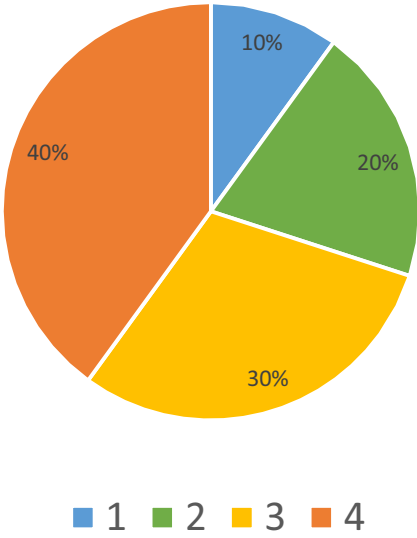
Row Labels	Count of \	Average of Modele	Average of Actual ETF Mortality
1	9	72%	72%
2	7	76%	77%
3	3	84%	82%
4	1	93%	94%
Grand Total	20	0.763333333	0.763833333

Cold Water Pool Tier	Count of Years	Average Total Egg to Fry Mortality	
		Modeled	Actual
1	9	72%	72%
2	7	76%	77%
3	3	84%	82%
4	1	93%	94%
		76.3%	76.4%

Cold Water Pool Tier
1
2
3
4

# of Years	% Of Years
9	45%
7	35%
3	15%
1	5%

Cold Water Pool Tier 1996-



2015