

## Debt/Equity Ratios

### 11 Water Companies

Company	Equity	Change	Percent Equity	Percent Debt
Aqua America Inc.	1,655,000,000	1,620,000,000	50.5%	49.5%
Artesian Resources Corp.	125,605,000	106,199,000	54.2%	45.8%
American States Water Co.	507,000,000	326,000,000	60.9%	39.1%
American Water Works Co.	4,916,000,000	5,509,000,000	47.2%	52.8%
California Water Service Group	627,000,000	426,000,000	59.5%	40.5%
Connecticut Water Service, Inc.	209,451,000	179,058,000	53.9%	46.1%
Global Water Resources Corp.	27,736,000	130,407,000	17.5%	82.5%
Middlesex Water Co.	197,000,000	142,000,000	58.1%	41.9%
New England Service Co.	13,148,390	8,707,981	60.2%	39.8%
SJW Corp.	360,000,000	385,000,000	48.3%	51.7%
York Water Company	104,563	84,885,000	0.1%	99.9%
Average			46.4%	53.6%
Average Excluding Outlier			51.0%	49.0%

Source: S&P Capital IQ; NESC Annual Report.

**Real Gross Domestic Product**  
*Annual Rate of Quarterly Growth*

Date	Percent	Date	Percent Change	Percent Change	Date	Percent Change	
01/01/79	0.8%	04/01/89	3.1%	07/01/99	5.0%	10/01/09	3.9%
04/01/79	0.5%	07/01/89	3.0%	10/01/99	6.9%	01/01/10	1.7%
07/01/79	2.9%	10/01/89	0.8%	01/01/00	1.2%	04/01/10	3.9%
10/01/79	1.0%	01/01/90	4.4%	04/01/00	7.6%	07/01/10	2.7%
01/01/80	<b>1.3%</b>	04/01/90	1.5%	07/01/00	0.5%	10/01/10	2.5%
04/01/80	<b>-8.1%</b>	07/01/90	<b>0.1%</b>	10/01/00	2.3%	01/01/11	-1.5%
07/01/80	<b>-0.6%</b>	10/01/90	<b>-3.4%</b>	01/01/01	<b>-1.1%</b>	04/01/11	2.9%
10/01/80	7.4%	01/01/91	<b>-1.9%</b>	04/01/01	<b>2.1%</b>	07/01/11	0.8%
01/01/81	8.3%	04/01/91	3.1%	07/01/01	<b>-1.3%</b>	10/01/11	4.5%
04/01/81	-2.9%	07/01/91	1.9%	10/01/01	<b>1.1%</b>	01/01/12	2.7%
07/01/81	<b>4.6%</b>	10/01/91	1.7%	01/01/02	3.7%	04/01/12	1.9%
10/01/81	<b>-4.7%</b>	01/01/92	4.7%	04/01/02	2.2%	07/01/12	0.5%
01/01/82	<b>-6.7%</b>	04/01/92	4.4%	07/01/02	1.9%	10/01/12	0.1%
04/01/82	<b>2.2%</b>	07/01/92	3.9%	10/01/02	0.3%	01/01/13	1.9%
07/01/82	<b>-1.4%</b>	10/01/92	4.0%	01/01/03	2.1%	04/01/13	1.1%
10/01/82	0.4%	01/01/93	0.7%	04/01/03	3.7%	07/01/13	2.9%
01/01/83	5.2%	04/01/93	2.4%	07/01/03	6.7%	10/01/13	3.8%
04/01/83	9.1%	07/01/93	1.9%	10/01/03	4.7%	01/01/14	-0.9%
07/01/83	7.8%	10/01/93	5.3%	01/01/04	2.3%	04/01/14	4.5%
10/01/83	8.3%	01/01/94	3.9%	04/01/04	2.9%	07/01/14	4.2%
01/01/84	7.9%	04/01/94	5.5%	07/01/04	3.6%	10/01/14	2.1%
04/01/84	7.0%	07/01/94	2.4%	10/01/04	3.5%	01/01/15	0.6%
07/01/84	3.9%	10/01/94	4.5%	01/01/05	4.3%	04/01/15	3.9%
10/01/84	3.2%	01/01/95	1.4%	04/01/05	2.1%	07/01/15	2.0%
01/01/85	4.0%	04/01/95	1.4%	07/01/05	3.4%	10/01/15	1.0%
04/01/85	3.7%	07/01/95	3.4%	10/01/05	2.3%		
07/01/85	6.2%	10/01/95	2.8%	01/01/06	4.8%		
10/01/85	3.0%	01/01/96	2.6%	04/01/06	1.2%		
01/01/86	3.7%	04/01/96	7.0%	07/01/06	0.4%		
04/01/86	1.8%	07/01/96	3.7%	10/01/06	3.1%		
07/01/86	4.0%	10/01/96	4.2%	01/01/07	0.2%		
10/01/86	2.1%	01/01/97	3.0%	04/01/07	3.1%		
01/01/87	2.8%	04/01/97	6.0%	07/01/07	2.7%		
04/01/87	4.5%	07/01/97	5.1%	10/01/07	<b>1.4%</b>		
07/01/87	3.6%	10/01/97	3.1%	01/01/08	<b>-2.7%</b>		
10/01/87	6.6%	01/01/98	4.0%	04/01/08	<b>2.0%</b>		
01/01/88	2.2%	04/01/98	3.9%	07/01/08	<b>-1.9%</b>		
04/01/88	5.3%	07/01/98	5.2%	10/01/08	<b>-8.5%</b>		
07/01/88	2.3%	10/01/98	6.6%	01/01/09	<b>-5.5%</b>		
10/01/88	5.3%	01/01/99	3.2%	04/01/09	<b>-0.5%</b>		
01/01/89	4.0%	04/01/99	3.3%	07/01/09	1.3%		

## Unemployment Rates

### *Annual*

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Date	Civilian Unemployment	U 6
1990	5.6%	
1991	6.9%	
1992	7.5%	
1993	6.9%	
1994	6.1%	10.8%
1995	5.6%	10.0%
1996	5.4%	9.6%
1997	4.9%	8.8%
1998	4.5%	8.0%
1999	4.2%	7.4%
2000	4.0%	7.0%
2001	4.7%	8.1%
2002	5.8%	9.6%
2003	6.0%	10.1%
2004	5.5%	9.6%
2005	5.1%	8.9%
2006	4.6%	8.2%
2007	4.6%	8.3%
2008	5.8%	10.6%
2009	9.3%	16.3%
2010	9.6%	16.7%
2011	8.9%	15.9%
2012	8.1%	14.7%
2013	7.4%	13.8%
2014	6.2%	12.0%
2015	5.3%	10.5%
Average	6.1%	10.7%

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Source: Federal Reserve Bank of St. Louis

**Return on Common Equity**  
*All Manufacturing Corporations*

Year Ended	4 Quarter Moving Averages			
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1970	11.0%	10.45%	9.98%	9.3%
1971	9.3%	9.33%	9.40%	9.68%
1972	9.8%	9.98%	10.18%	10.60%
1973	11.1%	11.80%	12.35%	13.05%
1974	13.7%	14.40%	15.18%	14.90%
1975	13.6%	12.35%	11.60%	11.58%
1976	12.7%	13.63%	13.95%	13.95%
1977	13.9%	13.95%	13.85%	14.18%
1978	14.0%	14.18%	14.58%	15.00%
1979	15.8%	16.20%	16.55%	16.45%
1980	16.4%	15.25%	14.30%	13.88%
1981	13.4%	13.93%	14.15%	13.65%
1982	12.8%	11.50%	10.45%	9.3%
1983	8.7%	8.80%	9.33%	10.5%
1984	11.7%	12.55%	12.70%	12.5%
1985	12.0%	11.08%	10.58%	10.2%
1986	9.8%	10.10%	9.73%	9.5%
1987	10.1%	10.58%	12.13%	12.9%
1988	14.0%	14.80%	15.13%	16.1%
1989	15.9%	15.23%	14.55%	13.5%
1990	12.4%	12.13%	11.60%	10.6%
1991	9.6%	8.40%	7.25%	6.3%
1992	0.2%	0.88%	1.85%	2.0%
1993	7.5%	7.03%	6.80%	8.0%
1994	10.2%	12.03%	13.80%	15.7%
1995	16.8%	17.18%	17.03%	16.0%
1996	15.6%	15.38%	15.95%	16.7%
1997	17.0%	17.18%	16.80%	16.7%
1998	17.5%	16.60%	16.53%	15.8%
1999	14.8%	15.60%	15.65%	16.5%
2000	17.0%	16.75%	16.50%	15.0%
2001	10.5%	7.50%	4.10%	2.0%
2002	3.3%	4.58%	6.25%	7.5%
2003	9.3%	9.68%	10.18%	12.1%
2004	12.6%	13.93%	15.28%	15.8%
2005	16.1%	16.18%	16.58%	16.7%
2006	17.5%	17.55%	17.70%	17.6%
2007	17.2%	17.30%	15.40%	15.2%
2008	14.8%	13.63%	14.98%	8.0%
2009	5.5%	4.78%	4.18%	10.8%
2010	12.95%	13.90%	14.40%	15.00%
2011	15.63%	16.50%	16.80%	16.95%
2012	16.83%	16.60%	16.08%	15.58%
2013	15.55%	15.25%	15.43%	15.70%
2014	15.10%	15.03%	15.23%	15.10%
2015	14.73%	13.98%	13.48%	

**Return on Common Equity**  
*All Manufacturing Corporations*

Year Ended	4 Quarter Moving Averages			
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
<i>30-year moving averages</i>				
<i>1980-2009</i>	12.3%	12.3%	12.2%	12.22%
1981-2010	12.2%	12.2%	12.3%	12.26%
1982-2011	12.3%	12.3%	12.3%	12.37%
1983-2012	12.4%	12.5%	12.5%	12.58%
1984-2013	12.6%	12.7%	12.7%	12.75%
1985-2014	12.8%	12.8%	12.8%	12.84%
1986-2015	12.9%	12.9%	12.9%	
<i>20-year moving averages</i>				
1990-2009	12.3%	12.2%	12.2%	12.24%
1991-2010	12.3%	12.3%	12.4%	12.5%
1992-2011	12.6%	12.7%	12.8%	13.0%
1993-2012	13.4%	13.5%	13.5%	13.7%
1994-2013	13.8%	13.9%	14.0%	14.1%
1995-2014	14.1%	14.1%	14.1%	14.0%
1996-2015	14.0%	13.9%	13.9%	
<i>15-year moving averages</i>				
1995-2009	13.7%	13.6%	13.5%	13.5%
1996-2010	13.4%	13.4%	13.4%	13.4%
1997-2011	13.4%	13.4%	13.4%	13.4%
1998-2012	13.4%	13.4%	13.4%	13.4%
1999-2013	13.3%	13.3%	13.3%	13.3%
2000-2014	13.3%	13.3%	13.3%	13.3%
2001-2015	13.2%	13.1%	13.1%	
<i>10-year moving averages</i>				
2000-2009	12.4%	12.2%	12.1%	12.1%
2001-2010	12.0%	11.9%	11.9%	12.1%
2002-2011	12.5%	12.8%	13.2%	13.6%
2003-2012	13.8%	14.0%	14.2%	14.4%
2004-2013	14.4%	14.6%	14.7%	14.7%
2005-2014	14.7%	14.7%	14.7%	14.6%
2006-2015	14.6%	14.5%	14.4%	
<i>5-year moving averages</i>				
2005-2009	14.2%	13.9%	13.8%	13.6%
2006-2010	13.6%	13.4%	13.3%	13.3%
2007-2011	13.2%	13.2%	13.2%	13.2%
2008-2012	13.1%	13.1%	13.3%	13.3%
2009-2013	13.3%	13.4%	13.4%	14.8%
2010-2014	15.2%	15.5%	15.6%	15.7%
2011-2015	15.6%	15.5%	15.4%	

## Monthly Interest Rates

Month	3 Month T-Bills	20 Year T-Bonds	Moody's Aaa Bonds	Moody's Baa Bonds
2007-09	3.89	4.84	5.74	6.59
2007-10	3.90	4.83	5.66	6.48
2007-11	3.27	4.56	5.44	6.40
2007-12	3.00	4.57	5.49	6.65
2008-01	2.75	4.35	5.33	6.54
2008-02	2.12	4.49	5.53	6.82
2008-03	1.26	4.36	5.51	6.89
2008-04	1.29	4.44	5.55	6.97
2008-05	1.73	4.60	5.57	6.93
2008-06	1.86	4.74	5.68	7.07
2008-07	1.63	4.62	5.67	7.16
2008-08	1.72	4.53	5.64	7.15
2008-09	1.13	4.32	5.65	7.31
2008-10	0.67	4.45	6.28	8.88
2008-11	0.19	4.27	6.12	9.21
2008-12	0.03	3.18	5.05	8.43
2009-01	0.13	3.46	5.05	8.14
2009-02	0.30	3.83	5.27	8.08
2009-03	0.21	3.78	5.50	8.42
2009-04	0.16	3.84	5.39	8.39
2009-05	0.18	4.22	5.54	8.06
2009-06	0.18	4.51	5.61	7.50
2009-07	0.18	4.38	5.41	7.09
2009-08	0.17	4.33	5.26	6.58
2009-09	0.12	4.14	5.13	6.31
2009-10	0.07	4.16	5.15	6.29
2009-11	0.05	4.24	5.19	6.32
2009-12	0.05	4.40	5.26	6.37
2010-01	0.06	4.50	5.26	6.25
2010-02	0.11	4.48	5.35	6.34
2010-03	0.15	4.49	5.27	6.27
2010-04	0.16	4.53	5.29	6.25
2010-05	0.16	4.11	4.96	6.05
2010-06	0.12	3.95	4.88	6.23

Source: Federal Reserve Bank of St. Louis

## Monthly Interest Rates

Month	3 Month T-Bills	20 Year T-Bonds	Moody's Aaa Bonds	Moody's Baa Bonds
2010-07	0.16	3.80	4.72	6.01
2010-08	0.16	3.52	4.49	5.66
2010-09	0.15	3.47	4.53	5.66
2010-10	0.13	3.52	4.68	5.72
2010-11	0.14	3.82	4.87	5.92
2010-12	0.14	4.17	5.02	6.10
2011-01	0.15	4.28	5.04	6.09
2011-02	0.13	4.42	5.22	6.15
2011-03	0.10	4.27	5.13	6.03
2011-04	0.06	4.28	5.16	6.02
2011-05	0.04	4.01	4.96	5.78
2011-06	0.04	3.91	4.99	5.75
2011-07	0.04	3.95	4.93	5.76
2011-08	0.02	3.24	4.37	5.36
2011-09	0.01	2.83	4.09	5.27
2011-10	0.02	2.87	3.98	5.37
2011-11	0.01	2.72	3.87	5.14
2011-12	0.01	2.67	3.93	5.25
2012-01	0.03	2.70	3.85	5.23
2012-02	0.09	2.75	3.85	5.14
2012-03	0.08	2.94	3.99	5.23
2012-04	0.08	2.82	3.96	5.19
2012-05	0.09	2.53	3.80	5.07
2012-06	0.09	2.31	3.64	5.02
2012-07	0.10	2.22	3.40	4.87
2012-08	0.10	2.40	3.48	4.91
2012-09	0.11	2.49	3.49	4.84
2012-10	0.10	2.51	3.47	4.58
2012-11	0.09	2.39	3.50	4.51
2012-12	0.07	2.47	3.65	4.63
2013-01	0.07	2.68	3.80	4.73
2013-02	0.10	2.78	3.90	4.85
2013-03	0.09	2.78	3.93	4.85
2013-04	0.06	2.55	3.73	4.59

Source: Federal Reserve Bank of St. Louis

## Monthly Interest Rates

Month	3 Month T-Bills	20 Year T-Bonds	Moody's Aaa Bonds	Moody's Baa Bonds
2013-05	0.04	2.73	3.89	4.73
2013-06	0.05	3.07	4.27	5.19
2013-07	0.04	3.31	4.34	5.32
2013-08	0.04	3.49	4.54	5.42
2013-09	0.02	3.53	4.64	5.47
2013-10	0.05	3.38	4.53	5.31
2013-11	0.07	3.50	4.63	5.38
2013-12	0.07	3.63	4.62	5.38
2014-01	0.04	3.52	4.49	5.19
2014-02	0.05	3.38	4.45	5.10
2014-03	0.05	3.35	4.38	5.06
2014-04	0.03	3.27	4.24	4.90
2014-05	0.03	3.12	4.16	4.76
2014-06	0.04	3.15	4.25	4.80
2014-07	0.03	3.07	4.16	4.73
2014-08	0.03	2.94	4.08	4.69
2014-09	0.02	3.01	4.11	4.80
2014-10	0.02	2.77	3.92	4.69
2014-11	0.02	2.76	3.92	4.79
2014-12	0.03	2.55	3.79	4.74
2015-01	0.03	2.20	3.46	4.45
2015-02	0.02	2.34	3.61	4.51
2015-03	0.03	2.41	3.64	4.54
2015-04	0.02	2.33	3.52	4.48
2015-05	0.02	2.69	3.98	4.89
2015-06	0.02	2.85	4.19	5.13
2015-07	0.03	2.77	4.15	5.20
2015-08	0.07	2.55	4.04	5.19
2015-09	0.02	2.62	4.07	5.34
2015-10	0.02	2.50	3.95	5.34
2015-11	0.12	2.69	4.06	5.46
2015-12	0.23	2.61	3.97	5.46
2016-01	0.26	2.49	4.00	5.45
2016-02	0.31	2.20	3.96	5.34

Source: Federal Reserve Bank of St. Louis



## Annual Interest Rates

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Year	3 Month T-Bills	20 Year T-Bonds	Moody's Aaa Bonds	Moody's Baa Bonds
1994	4.25	7.49	7.96	8.62
1995	5.49	6.96	7.59	8.20
1996	5.01	6.82	7.37	8.05
1997	5.06	6.68	7.26	7.86
1998	4.79	5.72	6.53	7.22
1999	4.64	6.19	7.05	7.88
2000	5.82	6.23	7.62	8.37
2001	3.40	5.63	7.08	7.95
2002	1.61	5.43	6.49	7.80
2003	1.01	4.96	5.66	6.76
2004	1.37	5.05	5.63	6.39
2005	3.15	4.65	5.23	6.06
2006	4.73	4.99	5.59	6.48
2007	4.36	4.91	5.56	6.48
2008	1.39	4.36	5.63	7.44
2009	0.15	4.11	5.31	7.29
2010	0.14	4.03	4.94	6.04
2011	0.05	3.62	4.64	5.66
2012	0.09	2.54	3.67	4.94
2013	0.06	3.12	4.23	5.10
2014	0.03	3.07	4.16	4.85
2015	0.05	2.55	3.89	5.00

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Source: Federal Reserve Bank of St. Louis

## Market Returns: Large Companies

Year	Returns	Year	Returns	Year	Returns
1926	11.6%	1957	-10.8%	1988	16.8%
1927	37.5%	1958	43.4%	1989	31.5%
1928	43.6%	1959	12.0%	1990	-3.2%
1929	-8.4%	1960	0.5%	1991	30.6%
1930	-24.9%	1961	26.9%	1992	7.7%
1931	-43.3%	1962	-8.7%	1993	10.0%
1932	-8.2%	1963	22.8%	1994	1.3%
1933	53.4%	1964	16.5%	1995	37.4%
1934	-1.4%	1965	12.5%	1996	23.1%
1935	47.7%	1966	-10.1%	1997	33.4%
1936	33.9%	1967	24.0%	1998	28.6%
1937	-35.0%	1968	11.1%	1999	21.0%
1938	31.1%	1969	-8.5%	2000	-9.1%
1939	-0.4%	1970	4.0%	2001	-11.9%
1940	-9.8%	1971	14.3%	2002	-22.1%
1941	-11.6%	1972	19.0%	2003	28.7%
1942	20.3%	1973	-14.7%	2004	10.9%
1943	25.9%	1974	-26.5%	2005	4.9%
1944	19.8%	1975	37.2%	2006	15.8%
1945	36.4%	1976	23.8%	2007	5.5%
1946	-8.1%	1977	-7.2%	2008	-37.0%
1947	5.7%	1978	6.6%	2009	26.5%
1948	5.5%	1979	18.4%	2010	15.1%
1949	18.8%	1980	32.4%	2011	2.1%
1950	31.7%	1981	-4.9%	2012	16.0%
1951	24.0%	1982	21.4%	2013	32.4%
1952	18.4%	1983	22.5%	2014	13.7%
1953	-1.0%	1984	6.3%	2015	1.4%
1954	52.6%	1985	32.2%		
1955	31.6%	1986	18.5%		
1956	6.6%	1987	5.2%		

Source: Ibbotson Associates, Stocks Bonds Bills and Inflation, Annual Yearbook; S&P Large Cap Index

## Market Returns: Moving Averages

Year/Period	5 Year Average	10 Year Average	15 Year Average	20 Year Average	25 Year Average	30 Year Average
1975	11.1%	9.1%	10.0%	10.0%	10.0%	10.3%
1976	16.1%	10.2%	10.9%	10.9%	10.9%	10.1%
1977	16.0%	9.1%	10.3%	10.9%	10.9%	10.9%
1978	6.8%	17.2%	11.3%	11.1%	11.1%	11.1%
1979	18.5%	14.6%	11.6%	11.8%	11.8%	11.8%
1980	11.5%	14.0%	10.9%	11.3%	11.3%	11.3%
1981	11.1%	17.2%	12.3%	12.0%	12.0%	12.0%
1982	16.1%	16.4%	11.1%	11.3%	11.8%	11.8%
1983	18.0%	11.8%	16.9%	11.9%	11.8%	11.8%
1984	15.5%	17.2%	15.2%	11.2%	11.5%	11.5%
1985	15.5%	15.5%	14.4%	11.9%	12.2%	12.2%
1986	20.2%	13.8%	14.9%	11.8%	12.5%	12.5%
1987	16.9%	15.9%	16.7%	12.3%	12.7%	13.1%
1988	15.8%	16.9%	14.6%	16.7%	13.7%	13.5%
1989	20.8%	18.2%	16.1%	16.5%	13.7%	13.7%
1990	13.8%	14.6%	15.7%	16.7%	13.0%	13.1%
1991	16.2%	18.2%	14.7%	18.0%	14.3%	12.5%
1992	16.7%	16.8%	15.7%	17.3%	13.3%	11.3%
1993	15.3%	15.5%	16.4%	13.4%	15.9%	12.2%
1994	9.3%	15.1%	15.2%	16.4%	13.7%	11.9%
1995	17.4%	15.6%	15.5%	15.7%	13.9%	11.6%
1996	15.9%	16.0%	17.4%	16.2%	14.6%	12.4%
1997	21.0%	18.9%	18.2%	17.9%	14.5%	11.9%
1998	24.8%	20.0%	18.6%	18.5%	16.3%	14.6%
1999	28.7%	19.0%	19.6%	18.6%	17.0%	13.6%
2000	19.4%	18.4%	16.8%	16.5%	15.1%	11.7%
2001	12.4%	14.1%	14.8%	16.2%	13.3%	12.8%
2002	1.3%	11.2%	13.0%	14.0%	14.7%	13.0%
2003	1.3%	13.0%	13.8%	14.3%	15.0%	13.6%
2004	-0.7%	14.0%	12.4%	14.5%	14.7%	14.6%
2005	2.1%	10.7%	13.0%	13.2%	13.6%	13.9%
2006	7.6%	10.0%	12.0%	13.0%	14.5%	13.3%
2007	13.2%	7.2%	11.8%	13.0%	13.8%	12.3%
2008	0.0%	0.7%	8.7%	10.4%	11.4%	12.5%
2009	3.1%	1.2%	10.4%	10.1%	12.2%	12.8%
2010	5.2%	3.6%	8.9%	11.0%	11.6%	12.2%
2011	2.4%	5.0%	7.5%	9.6%	10.9%	12.5%
2012	4.5%	8.8%	6.3%	10.0%	11.3%	12.3%
2013	18.4%	9.2%	6.6%	11.1%	12.0%	12.6%
2014	15.9%	9.5%	6.1%	11.7%	11.2%	12.8%
2015	13.1%	9.1%	6.8%	9.9%	11.4%	11.8%
<i>Cumulative Averages</i>						
1992-2011	10.8%	12.1%	13.8%	14.3%	14.0%	13.0%
1993-2012	10.2%	11.7%	13.3%	13.9%	13.8%	13.0%
1994-2013	10.4%	11.4%	12.8%	13.6%	13.6%	12.9%
1995-2014	10.7%	11.1%	12.1%	13.3%	13.3%	12.9%
1996-2015	10.5%	10.7%	11.5%	12.8%	12.9%	12.9%
1976-2015	12.9%	13.2%	13.6%	14.0%	13.4%	12.4%
1981-2015	12.8%	13.1%	13.4%	13.9%	13.4%	12.6%
1986-2015	12.4%	12.6%	13.1%	14.2%	13.6%	12.7%
1991-2015	11.4%	11.8%	12.6%	13.7%	13.5%	12.9%
1996-2015	10.5%	10.7%	11.5%	12.8%	12.9%	12.9%

## 2015 Dividend Yields

### 11 Water Companies

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Company	Annual Dividend	Price	Dividend Yield
Aqua America Inc.	0.69	27.75	2.5%
Artesian Resources Corp.	0.87	24.58	3.6%
American States Water Co.	0.87	40.62	2.2%
American Water Works Co.	1.33	54.78	2.4%
California Water Service Group	0.67	22.77	2.9%
Connecticut Water Service, Inc.	1.05	36.57	2.9%
Global Water Resources Corp.	0.25	5.43	4.5%
Middlesex Water Co.	0.78	24.63	3.2%
New England Service Co.	1.26	54.10	2.3%
SJW Corp.	0.78	31.64	2.5%
York Water Company	0.60	23.18	2.6%
Average			2.9%

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Source: Yahoo Finance

## Current Dividend Yields

### 11 Water Companies

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Company	Annual Dividend	Price	Dividend Yield
Aqua America Inc.	0.71	30.35	2.3%
Artesian Resources Corp.	0.89	28.85	3.1%
American States Water Co.	0.90	43.20	2.1%
American Water Works Co.	1.36	63.97	2.1%
California Water Service Group	0.69	24.52	2.8%
Connecticut Water Service, Inc.	1.07	40.71	2.6%
Global Water Resources Corp.	0.08	5.23	1.5%
Middlesex Water Co.	0.80	27.95	2.8%
New England Service Co.	1.38	58.00	2.4%
SJW Corp.	0.81	33.10	2.5%
York Water Company	0.62	26.84	2.3%
Average			2.4%

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Source: Yahoo Finance

**Dividend Growth**  
*11 Water Companies*

	<b>Aqua America Inc.</b>	<b>Artesian Resources Corp.</b>	<b>American States Water Co.</b>	<b>American Water Works Co.</b>	<b>California Water Service Group</b>	<b>Connecticut Water Service, Inc.</b>
	<b>WTR</b>	<b>ARTNA</b>	<b>AWR</b>	<b>AWK</b>	<b>CWT</b>	<b>CTWS</b>
<i>Dividends</i>						
2007	\$0.38	\$0.67	\$0.48	\$0.00	\$0.58	\$0.85
2008	\$0.41	\$0.71	\$0.50	\$0.40	\$0.59	\$0.87
2009	\$0.44	\$0.72	\$0.51	\$0.82	\$0.59	\$0.89
2010	\$0.47	\$0.75	\$0.52	\$0.86	\$0.59	\$0.92
2011	\$0.50	\$0.76	\$0.55	\$0.90	\$0.61	\$0.94
2012	\$0.54	\$0.79	\$0.64	\$1.21	\$0.63	\$0.77
2013	\$0.58	\$0.82	\$0.76	\$0.84	\$0.64	\$0.97
2014	\$0.63	\$0.85	\$0.83	\$1.21	\$0.65	\$1.01
2015	\$0.69	\$0.87	\$0.87	\$1.33	\$0.67	\$1.05
<i>Ann. Growth Rates (n=6)</i>						
2007-13	7.4%	3.5%	8.1%	NM	1.6%	2.2%
2008-14	7.6%	3.1%	8.8%	20.3%	1.8%	2.4%
2009-15	7.7%	3.2%	9.6%	8.4%	2.1%	2.7%
<i>Ann. Growth Rates (n=4)</i>						
2009-13	7.3%	3.3%	10.8%	0.6%	2.0%	2.2%
2010-14	7.7%	3.0%	12.4%	8.9%	2.2%	2.4%
2011-15	8.0%	3.5%	12.3%	10.3%	2.2%	2.9%
<i>Ann. Growth Rates (n=2)</i>						
2011-13	7.6%	3.9%	17.6%	-3.4%	1.9%	2.0%
2012-14	8.8%	3.5%	14.4%	0.0%	1.6%	14.0%
2013-15	8.4%	3.0%	7.2%	25.8%	2.4%	3.8%

**Dividend Growth**  
*11 Water Companies*

	<b>Global Water Resources Corp. GWGWF</b>	<b>Middlesex Water Co. MSEX</b>	<b>New England Service Co. NESW</b>	<b>SJW Corp. SJW</b>	<b>York Water Company YORW</b>	<b>Average</b>
<i>Dividends</i>						
2007	\$0.00	\$0.70	\$0.63	\$0.62	\$0.47	
2008	\$0.00	\$0.72	\$0.63	\$0.66	\$0.49	
2009	\$0.00	\$0.68	\$0.70	\$0.64	\$0.48	
2010	\$0.00	\$0.66	\$0.72	\$0.66	\$0.51	
2011	\$0.00	\$0.71	\$0.82	\$0.67	\$0.52	
2012	\$0.00	\$0.73	\$0.98	\$0.70	\$0.54	
2013	\$0.00	\$0.75	\$1.06	\$0.73	\$0.56	
2014	\$0.37	\$0.76	\$1.14	\$0.75	\$0.58	
2015	\$0.25	\$0.78	\$1.26	\$0.78	\$0.60	
<i>Ann. Growth Rates (n=6)</i>						
2007-13	NM	1.0%	9.1%	2.9%	2.7%	4.3%
2008-14	NM	1.0%	10.4%	2.2%	3.0%	6.1%
2009-15	NM	2.1%	10.3%	3.3%	3.7%	5.3%
<i>Ann. Growth Rates (n=4)</i>						
2009-13	NM	2.2%	10.9%	3.3%	3.6%	4.6%
2010-14	NM	3.9%	12.2%	3.1%	3.1%	5.9%
2011-15	NM	2.1%	11.3%	3.7%	3.3%	6.0%
<i>Ann. Growth Rates (n=2)</i>						
2011-13	NM	2.2%	13.7%	4.0%	3.0%	5.3%
2012-14	NM	2.3%	7.9%	3.8%	4.0%	6.0%
2013-15	NM	2.0%	9.0%	3.4%	3.7%	6.9%

**Dividend Growth**  
*11 Water Companies*  
*Excluding Outliers*

	<b>Aqua America Inc.</b>	<b>Artesian Resources Corp.</b>	<b>American States Water Co.</b>	<b>American Water Works Co.</b>	<b>California Water Service Group</b>	<b>Connecticut Water Service, Inc.</b>
	<b>WTR</b>	<b>ARTNA</b>	<b>AWR</b>	<b>AWK</b>	<b>CWT</b>	<b>CTWS</b>
<i>Dividend Growth Excluding Outliers</i>						
2008	7.4%	5.6%	4.7%		0.9%	2.1%
2009	7.8%	2.2%	1.0%		0.8%	2.7%
2010	7.3%	4.1%	3.0%	4.9%	0.8%	2.3%
2011	6.8%	1.3%	5.8%	4.7%	3.3%	2.3%
2012	6.3%	3.9%	15.5%		2.5%	-17.3%
2013	9.0%	4.0%	19.7%		1.4%	
2014	8.6%	3.0%	9.3%		1.8%	3.2%
2015	8.2%	3.0%	5.2%	9.9%	3.1%	4.4%
<i>Ann. Growth Rates (n=6)</i>						
2007-13	7.4%	3.5%	8.3%	4.8%	1.6%	-1.6%
2008-14	7.6%	3.1%	9.0%	4.8%	1.8%	-1.4%
2009-15	7.7%	3.2%	9.7%	6.5%	2.1%	-1.0%
<i>Ann. Growth Rates (n=4)</i>						
2009-13	7.3%	3.3%	11.0%	4.8%	2.0%	-4.2%
2010-14	7.7%	3.0%	12.6%	4.7%	2.2%	-4.0%
2011-15	8.0%	3.5%	12.4%	9.9%	2.2%	-3.2%
<i>Ann. Growth Rates (n=2)</i>						
2011-13	7.3%	3.3%	11.0%	4.8%	2.0%	-4.2%
2012-14	7.7%	3.3%	12.0%	6.4%	2.1%	-3.8%
2013-15	8.0%	3.5%	12.4%	9.9%	2.2%	-3.2%

Source: S&P Capital IQ; NESC Annual Report; 10-K's.  
 Note: Annual changes of more than 20% and less than -20% were removed.



**Dividend Growth**  
*11 Water Companies*  
*Excluding Outliers*

	<b>Global Water Resources Corp. GWGWF</b>	<b>Middlesex Water Co. MSEX</b>	<b>New England Service Co. NESW</b>	<b>SJW Corp. SJW</b>	<b>York Water Company YORW</b>	<b>Average</b>
<i>Dividend Growth Excluding Outliers</i>						
2008		2.3%	0.0%	7.1%	2.7%	
2009		-4.9%	11.1%	-2.7%	-0.9%	
2010		-4.0%	2.9%	3.3%	6.4%	
2011		8.8%	13.9%	1.7%	2.3%	
2012		2.1%	19.5%	3.2%	2.3%	
2013		2.3%	8.2%	4.8%	3.6%	
2014		2.4%	7.5%	2.7%	4.4%	
2015		1.5%	10.5%	4.0%	3.1%	
<i>Ann. Growth Rates (n=6)</i>						
2007-13		1.1%	9.3%	2.9%	2.7%	4.0%
2008-14		1.1%	10.5%	2.2%	3.0%	4.2%
2009-15		2.2%	10.4%	3.3%	3.7%	4.8%
<i>Ann. Growth Rates (n=4)</i>						
2009-13		2.3%	11.1%	3.3%	3.7%	4.4%
2010-14		3.9%	12.3%	3.1%	3.1%	4.9%
2011-15		2.1%	11.4%	3.7%	3.3%	5.3%
<i>Ann. Growth Rates (n=2)</i>						
2011-13		2.3%	11.1%	3.3%	3.7%	4.4%
2012-14		2.8%	11.6%	3.4%	3.4%	4.9%
2013-15		2.1%	11.4%	3.7%	3.2%	5.3%

Source: S&P Capital IQ; NESW Annual Report; 10-K's.

**Earnings Growth**  
*11 Water Companies*

	<b>Aqua America Inc.</b>	<b>Artesian Resources Corp.</b>	<b>American States Water Co.</b>	<b>American Water Works Co.</b>	<b>California Water Service Group</b>	<b>Connecticut Water Service, Inc.</b>
	<b>WTR</b>	<b>ARTNA</b>	<b>AWR</b>	<b>AWK</b>	<b>CWT</b>	<b>CTWS</b>
<i>Earnings</i>						
2007	\$0.58	\$0.92	\$0.79	-\$2.14	\$0.75	\$1.06
2008	\$0.62	\$0.83	\$0.75	-\$3.52	\$0.95	\$1.12
2009	\$0.70	\$0.94	\$0.81	-\$1.39	\$0.98	\$1.20
2010	\$0.80	\$1.04	\$0.84	\$1.53	\$0.91	\$1.14
2011	\$0.86	\$0.79	\$1.22	\$1.73	\$0.90	\$1.31
2012	\$1.26	\$1.14	\$1.42	\$2.11	\$1.17	\$1.55
2013	\$1.19	\$0.96	\$1.61	\$2.06	\$1.02	\$1.68
2014	\$1.25	\$0.99	\$1.57	\$2.39	\$1.19	\$1.95
<i>Ann. Growth Rates (n=6)</i>						
2007-13	12.7%	0.7%	12.7%		5.3%	8.0%
2008-14	12.4%	3.0%	13.1%		3.8%	9.7%
<i>Ann. Growth Rates (n=4)</i>						
2008-12	19.4%	8.3%	17.3%		5.3%	8.5%
2009-13	14.2%	0.5%	18.7%		1.0%	8.8%
2010-14	11.8%	-1.2%	17.1%	11.8%	6.9%	14.4%
<i>Ann. Growth Rates (n=2)</i>						
2010-12	25.5%	4.7%	30.4%	17.4%	13.4%	16.6%
2011-13	17.6%	10.2%	14.9%	9.1%	6.5%	13.2%
2012-14	-0.4%	-6.8%	5.1%	6.4%	0.9%	12.2%

**Earnings Growth**  
*11 Water Companies*

	<b>Global Water Resources Corp. GWGWF</b>	<b>Middlesex Water Co. MSEX</b>	<b>New England Service Co. NESW</b>	<b>SJW Corp. SJW</b>	<b>York Water Company YORW</b>	<b>Average</b>
<i>Earnings</i>						
2007	\$0.00	\$0.88	\$2.15	\$1.04	\$2.76	
2008	-\$0.75	\$0.90	\$2.56	\$1.15	\$2.61	
2009	-\$0.59	\$0.73	\$1.69	\$0.81	\$0.64	
2010	-\$10.40	\$0.96	\$1.87	\$1.30	\$0.71	
2011	-\$0.39	\$0.85	\$2.73	\$1.11	\$0.71	
2012	-\$4.42	\$0.90	\$2.82	\$1.18	\$0.72	
2013	-\$0.73	\$1.04	\$3.97	\$1.12	\$0.75	
2014	\$8.60	\$1.14	\$4.17	\$2.54	\$0.89	
<i>Ann. Growth Rates (n=6)</i>						
2007-13		2.8%	10.8%	1.2%	-19.5%	3.9%
2008-14		4.0%	8.5%	14.1%	-16.4%	5.8%
<i>Ann. Growth Rates (n=4)</i>						
2008-12	55.8%	0.0%	2.4%	0.6%	-27.5%	9.0%
2009-13	5.5%	9.3%	23.8%	8.4%	4.0%	9.4%
2010-14		4.4%	22.2%	18.2%	5.8%	11.1%
<i>Ann. Growth Rates (n=2)</i>						
2010-12	-34.8%	-3.2%	22.8%	-4.7%	0.7%	8.1%
2011-13	36.8%	10.6%	20.6%	0.4%	2.8%	13.0%
2012-14		12.5%	21.6%	46.7%	11.2%	10.9%

**Earnings Growth**  
*11 Water Companies*  
*Excluding Outliers*

	<b>Aqua America Inc. WTR</b>	<b>Artesian Resources Corp. ARTNA</b>	<b>American States Water Co. AWR</b>	<b>American Water Works Co. AWK</b>	<b>California Water Service Group CWT</b>	<b>Connecticut Water Service, Inc. CTWS</b>
<i>Earnings Growth Excluding Outliers</i>						
2008	6.9%	-9.8%	-4.5%			5.7%
2009	12.9%	13.3%	8.0%		3.2%	7.1%
2010	14.3%	10.6%	3.1%		-7.1%	-5.0%
2011	7.5%			13.1%	-1.1%	14.9%
2012			16.4%			18.3%
2013	-5.6%	-15.8%	13.4%	-2.4%	-12.8%	8.4%
2014	5.0%	3.1%	-2.5%	16.0%	16.7%	16.1%
<i>Ann. Growth Rates (n=6)</i>						
2007-2013	7.2%	-0.4%	7.3%	5.4%	-4.5%	8.2%
2008-2014	6.8%	2.8%	7.7%	8.9%	-0.2%	10.0%
<i>Ann. Growth Rates (n=4)</i>						
2008-12	10.4%	4.7%	5.8%	13.1%	-1.7%	8.2%
2009-13	7.3%	2.7%	10.2%	5.4%	-4.5%	8.8%
2010-14	5.3%	-0.7%	7.6%	8.9%	-1.1%	10.5%
<i>Ann. Growth Rates (n=2)</i>						
2010-12	10.4%	3.7%	8.0%	9.2%	-3.1%	8.5%
2011-13	7.7%	2.2%	7.9%	9.1%	-2.4%	9.2%
2012-14	7.7%	1.0%	8.9%	7.1%	-2.8%	9.6%

Source: S&P Capital IQ; NESC Annual Report; 10-K's.  
 Note: Annual changes of more than 20% and less than -20% were removed.

**Earnings Growth**  
*11 Water Companies*  
*Excluding Outliers*

	<b>Global Water Resources Corp. GWGWF</b>	<b>Middlesex Water Co. MSEX</b>	<b>New England Service Co. NESW</b>	<b>SJW Corp. SJW</b>	<b>York Water Company YORW</b>	<b>Average</b>
<i>Earnings Growth Excluding Outliers</i>						
2008		2.3%	19.1%	10.6%	0.0%	3.8%
2009		-18.9%			12.3%	5.4%
2010			10.7%		10.9%	5.4%
2011		-11.5%		-14.6%	0.0%	1.2%
2012		5.9%	3.3%	6.3%	1.4%	8.6%
2013		15.6%		-5.1%	4.2%	0.0%
2014		9.6%	5.0%		18.7%	9.8%
<i>Ann. Growth Rates (n=6)</i>						
2007-2013		-1.3%	11.0%	-0.7%	4.8%	3.7%
2008-2014		0.1%	6.3%	-4.5%	7.9%	4.6%
<i>Ann. Growth Rates (n=4)</i>						
2008-12		-5.5%	11.0%	0.8%	4.9%	5.2%
2009-13		-2.2%	7.0%	-4.5%	5.8%	3.6%
2010-14		4.9%	6.3%	-4.5%	7.0%	4.4%
<i>Ann. Growth Rates (n=2)</i>						
2010-12		-3.9%	9.0%	-1.9%	5.3%	4.5%
2011-13		-1.0%	8.1%	-2.7%	5.9%	4.4%
2012-14		1.3%	6.7%	-4.5%	6.4%	4.1%

Source: S&P Capital IQ; NESCA Annual Report; 10-K's.

**Book Value Growth**  
*11 Water Companies*

	<b>Aqua America Inc. WTR</b>	<b>Artesian Resources Corp. ARTNA</b>	<b>American States Water Co. AWR</b>	<b>American Water Works Co. AWK</b>	<b>California Water Service Group CWT</b>	<b>Connecticut Water Service, Inc. CTWS</b>
<i>Book Value</i>						
2007	\$5.84	\$11.66	\$8.82	\$28.39	\$9.34	\$11.95
2008	\$6.26	\$11.86	\$8.99	\$25.64	\$9.73	\$12.23
2009	\$6.49	\$12.15	\$9.96	\$23.79	\$10.15	\$12.66
2010	\$6.83	\$12.46	\$10.16	\$23.61	\$10.48	\$13.04
2011	\$7.19	\$13.12	\$10.93	\$24.14	\$10.78	\$13.50
2012	\$7.92	\$13.57	\$11.96	\$25.18	\$11.31	\$16.94
2013	\$8.67	\$13.80	\$12.74	\$26.59	\$12.91	\$17.92
2014	\$9.35	\$14.09	\$13.11	\$27.33	\$13.12	\$18.83
<i>Ann. Growth Rates (n=6)</i>						
2007-13	6.8%	2.8%	6.3%	-\$0.01	5.5%	7.0%
2008-14	6.9%	2.9%	6.5%	1.1%	5.1%	7.5%
<i>Ann. Growth Rates (n=4)</i>						
2008-12	6.1%	3.4%	7.4%	-0.5%	3.8%	8.5%
2009-13	7.5%	3.2%	6.4%	2.8%	6.2%	9.1%
2010-14	8.2%	3.1%	6.6%	3.7%	5.8%	9.6%
<i>Ann. Growth Rates (n=2)</i>						
2010-12	7.7%	4.4%	8.5%	3.3%	3.9%	14.0%
2011-13	9.8%	2.5%	8.0%	5.0%	9.5%	15.2%
2012-14	8.7%	1.9%	4.7%	4.2%	7.7%	5.4%

**Book Value Growth**  
*11 Water Companies*

	<b>Global Water Resources Corp. GWGWF</b>	<b>Middlesex Water Co. MSEX</b>	<b>New England Service Co. NESW</b>	<b>SJW Corp. SJW</b>	<b>York Water Company YORW</b>	<b>Average</b>
<i>Book Value</i>						
2007		\$10.23	25.5	\$13.17	\$5.97	
2008	\$0.63	\$10.62	\$27.31	\$14.11	\$6.14	
2009	\$0.07	\$10.00	\$28.22	\$13.32	\$6.92	
2010	\$1.43	\$10.81	\$29.20	\$13.42	\$7.19	
2011	\$1.41	\$11.06	\$30.97	\$13.89	\$7.45	
2012	-\$3.06	\$11.38	\$32.94	\$14.47	\$7.73	
2013	-\$3.76	\$11.81	\$41.33	\$16.05	\$7.98	
2014	\$3.17	\$12.31	\$44.57	\$18.00	\$8.15	
<i>Ann. Growth Rates (n=6)</i>						
2007-13	NM	2.4%	8.4%	3.4%	4.9%	4.7%
2008-14	NM	2.5%	8.5%	4.1%	4.8%	5.0%
<i>Ann. Growth Rates (n=4)</i>						
2008-12	NM	1.7%	4.8%	0.6%	5.9%	4.2%
2009-13	NM	4.3%	10.0%	4.8%	3.6%	5.8%
2010-14	NM	3.3%	11.2%	7.6%	3.2%	6.2%
<i>Ann. Growth Rates (n=2)</i>						
2010-12	NM	2.6%	6.2%	3.8%	3.7%	5.8%
2011-13	NM	3.3%	15.5%	7.5%	3.5%	8.0%
2012-14	NM	4.0%	16.3%	11.5%	2.7%	6.7%

**Book Value Growth**  
*11 Water Companies*  
*Excluding Outliers*

	<b>Aqua America Inc.</b> <b>WTR</b>	<b>Artesian Resources Corp.</b> <b>ARTNA</b>	<b>American States Water Co.</b> <b>AWR</b>	<b>American Water Works Co.</b> <b>AWK</b>	<b>California Water Service Group</b> <b>CWT</b>	<b>Connecticut Water Service, Inc.</b> <b>CTWS</b>
<i>Book Value Growth Excluding Outliers</i>						
2008	7.1%	1.7%	1.9%	-9.7%	4.2%	2.3%
2009	3.6%	2.4%	10.7%	-7.2%	4.3%	3.6%
2010	5.2%	2.6%	2.0%	-0.8%	3.3%	3.0%
2011	5.3%	5.3%	7.6%	2.2%	2.8%	3.5%
2012	10.2%	3.4%	9.4%	4.3%	5.0%	
2013	9.5%	1.7%	6.5%	5.6%	14.1%	5.7%
2014	7.8%	2.1%	2.9%	2.8%	1.6%	5.1%
<i>Ann. Growth Rates (n=6)</i>						
2007-13	6.8%	2.9%	6.4%	-0.9%	5.6%	3.6%
2008-14	6.9%	2.9%	6.5%	1.2%	5.2%	4.2%
<i>Ann. Growth Rates (n=4)</i>						
2008-12	6.1%	3.4%	7.4%	-0.4%	3.8%	3.4%
2009-13	7.6%	3.2%	6.4%	2.8%	6.3%	4.1%
2010-14	8.2%	3.1%	6.6%	3.7%	5.9%	4.8%
<i>Ann. Growth Rates (n=2)</i>						
2010-12	6.8%	3.3%	6.9%	2.1%	5.4%	4.1%
2011-13	7.3%	3.3%	6.8%	3.3%	6.1%	4.4%
2012-14	7.5%	3.2%	6.5%	2.9%	5.6%	4.4%

Source: S&P Capital IQ; NESC Annual Report; 10-K's.  
 Note: Annual changes of more than 20% and less than -20% were removed.



**Book Value Growth**  
*11 Water Companies*  
*Excluding Outliers*

	<b>Global Water Resources Corp. GWGWF</b>	<b>Middlesex Water Co. MSEX</b>	<b>New England Service Co. NESW</b>	<b>SJW Corp. SJW</b>	<b>York Water Company YORW</b>	<b>Average</b>
<i>Book Value Growth Excluding Outliers</i>						
2008		3.8%	7.1%	7.2%	2.8%	
2009		-5.8%	3.3%	-5.6%	12.8%	
2010		8.1%	3.5%	0.8%	3.9%	
2011	-1.4%	2.3%	6.1%	3.5%	3.6%	
2012		2.8%	6.4%	4.2%	3.8%	
2013		3.8%		10.9%	3.2%	
2014		4.2%	7.8%	12.1%	2.2%	
<i>Ann. Growth Rates (n=6)</i>						
2007-13	-1.4%	2.5%	5.3%	3.5%	5.0%	3.6%
2008-14	-1.4%	2.6%	5.4%	4.3%	4.9%	3.9%
<i>Ann. Growth Rates (n=4)</i>						
2008-12	-1.4%	1.9%	4.8%	0.7%	6.0%	3.3%
2009-13	-1.4%	4.3%	5.3%	4.8%	3.6%	4.3%
2010-14	-1.4%	3.3%	6.8%	7.7%	3.2%	4.7%
<i>Ann. Growth Rates (n=2)</i>						
2010-12	-1.4%	3.1%	5.6%	4.4%	3.7%	4.0%
2011-13	-1.4%	3.8%	6.0%	6.3%	3.5%	4.5%
2012-14	-1.4%	3.2%	6.2%	6.0%	3.1%	4.3%

Source: S&P Capital IQ; NESW Annual Report; 10-K's.

## Risk Premiums

Year	S&P 500	T-Bills	Risk Premium	Year	S&P 500	T-Bills	Risk Premium
1926	11.6%	3.3%	8.4%	1971	14.3%	4.4%	9.9%
1927	37.5%	3.1%	34.4%	1972	19.0%	3.8%	15.1%
1928	43.6%	3.6%	40.1%	1973	-14.7%	6.9%	-21.6%
1929	-8.4%	4.8%	-13.2%	1974	-26.5%	8.0%	-34.5%
1930	-24.9%	2.4%	-27.3%	1975	37.2%	5.8%	31.4%
1931	-43.3%	1.1%	-44.4%	1976	23.8%	5.1%	18.8%
1932	-8.2%	1.0%	-9.2%	1977	-7.2%	5.1%	-12.3%
1933	53.4%	0.3%	53.1%	1978	6.6%	7.2%	-0.6%
1934	-1.4%	0.2%	-1.6%	1979	18.4%	10.4%	8.1%
1935	47.7%	0.2%	47.5%	1980	32.4%	11.2%	21.2%
1936	33.9%	0.2%	33.7%	1981	-4.9%	14.7%	-19.6%
1937	-35.0%	0.3%	-35.3%	1982	21.4%	10.5%	10.9%
1938	31.1%	0.0%	31.1%	1983	22.5%	8.8%	13.7%
1939	-0.4%	0.0%	-0.4%	1984	6.3%	9.9%	-3.6%
1940	-9.8%	0.0%	-9.8%	1985	32.2%	7.7%	24.4%
1941	-11.6%	0.1%	-11.7%	1986	18.5%	6.2%	12.3%
1942	20.3%	0.3%	20.1%	1987	5.2%	5.5%	-0.2%
1943	25.9%	0.4%	25.6%	1988	16.8%	6.4%	10.5%
1944	19.8%	0.3%	19.4%	1989	31.5%	8.4%	23.1%
1945	36.4%	0.3%	36.1%	1990	-3.2%	7.8%	-11.0%
1946	-8.1%	0.4%	-8.4%	1991	30.6%	5.6%	25.0%
1947	5.7%	0.5%	5.2%	1992	7.7%	3.5%	4.2%
1948	5.5%	0.8%	4.7%	1993	10.0%	2.9%	7.1%
1949	18.8%	1.1%	17.7%	1994	1.3%	3.9%	-2.6%
1950	31.7%	1.2%	30.5%	1995	37.4%	5.6%	31.8%
1951	24.0%	1.5%	22.5%	1996	23.1%	5.2%	17.9%
1952	18.4%	1.7%	16.7%	1997	33.4%	5.3%	28.1%
1953	-1.0%	1.8%	-2.8%	1998	28.6%	4.9%	23.7%
1954	52.6%	0.9%	51.8%	1999	21.0%	4.7%	16.4%
1955	31.6%	1.6%	30.0%	2000	-9.1%	5.9%	-15.0%
1956	6.6%	2.5%	4.1%	2001	-11.9%	3.8%	-15.7%
1957	-10.8%	3.1%	-13.9%	2002	-22.1%	1.7%	-23.8%
1958	43.4%	1.5%	41.8%	2003	28.7%	1.0%	27.7%
1959	12.0%	3.0%	9.0%	2004	10.9%	1.2%	9.7%
1960	0.5%	2.7%	-2.2%	2005	4.9%	3.0%	1.9%
1961	26.9%	2.1%	24.8%	2006	15.8%	4.8%	11.0%
1962	-8.7%	2.7%	-11.5%	2007	5.5%	4.7%	0.8%
1963	22.8%	3.1%	19.7%	2008	-37.0%	1.6%	-38.6%
1964	16.5%	3.5%	12.9%	2009	26.5%	0.1%	26.4%
1965	12.5%	3.9%	8.5%	2010	15.1%	0.1%	14.9%
1966	-10.1%	4.8%	-14.8%	2011	2.1%	0.1%	2.0%
1967	24.0%	4.2%	19.8%	2012	16.0%	0.1%	15.9%
1968	11.1%	5.2%	5.9%	2013	32.4%	0.1%	32.3%
1969	-8.5%	6.6%	-15.1%	2014	13.7%	0.0%	13.7%
1970	4.0%	6.5%	-2.5%	2015	1.4%	0.1%	1.3%
Average 1926-2015					11.7%	3.4%	8.3%
Average 1986-2015					11.8%	3.5%	8.4%
Average 1996-2015					9.9%	2.4%	7.5%
Average 2001-2015					6.8%	1.5%	5.3%
Average 2006-2015					9.1%	1.2%	8.0%



## Risk Premiums: Moving Averages

Year/Period	5 Year Average	10 Year Average	15 Year Average	20 Year Average	25 Year Average	30 Year Average
1975	-1.5%	-1.4%	2.3%	4.8%	8.1%	7.2%
1976	-28.0%	-0.6%	2.3%	3.4%	6.9%	7.3%
1977	-28.0%	-0.2%	2.2%	4.3%	7.0%	8.3%
1978	-17.5%	-2.7%	1.9%	5.3%	6.8%	8.5%
1979	3.7%	-1.7%	1.2%	3.6%	6.9%	8.4%
1980	9.5%	2.2%	1.3%	3.7%	5.5%	8.2%
1981	2.3%	-7.8%	3.3%	4.7%	5.2%	7.9%
1982	4.0%	-5.2%	1.6%	3.2%	4.7%	7.0%
1983	6.8%	-0.1%	0.8%	3.4%	6.1%	7.2%
1984	4.5%	4.3%	3.2%	3.1%	4.8%	7.4%
1985	5.2%	6.8%	3.9%	3.0%	4.7%	6.1%
1986	11.6%	7.4%	1.0%	3.5%	4.7%	5.1%
1987	9.3%	6.7%	0.9%	4.0%	4.9%	5.9%
1988	8.7%	7.8%	3.5%	2.9%	4.9%	6.9%
1989	14.0%	9.3%	8.3%	3.5%	5.4%	6.5%
1990	6.9%	6.0%	6.9%	6.3%	5.9%	6.9%
1991	9.5%	10.5%	8.1%	3.6%	7.0%	7.5%
1992	10.3%	9.8%	7.9%	3.7%	5.8%	6.3%
1993	9.7%	9.2%	8.4%	5.3%	6.2%	5.2%
1994	4.5%	9.3%	7.7%	7.2%	7.4%	4.2%
1995	13.1%	10.0%	8.4%	8.6%	8.0%	4.7%
1996	11.7%	10.6%	10.9%	9.1%	5.5%	5.5%
1997	16.5%	13.4%	12.0%	10.0%	6.6%	4.9%
1998	19.8%	14.7%	12.7%	11.2%	8.6%	4.8%
1999	23.6%	14.1%	14.0%	11.7%	10.9%	5.6%
2000	14.2%	13.6%	11.4%	9.8%	9.8%	6.6%
2001	7.5%	9.6%	9.5%	10.0%	8.7%	5.9%
2002	-2.9%	6.8%	8.0%	8.3%	7.4%	4.8%
2003	-2.1%	8.8%	9.1%	9.0%	8.6%	6.6%
2004	-3.4%	10.1%	8.2%	9.7%	8.6%	8.3%
2005	0.0%	7.1%	9.1%	8.5%	7.9%	8.1%
2006	5.3%	6.4%	8.2%	8.5%	9.1%	8.2%
2007	10.2%	3.7%	7.9%	8.5%	8.7%	7.9%
2008	-3.0%	-2.6%	4.9%	6.1%	6.6%	6.6%
2009	0.3%	-1.6%	6.8%	6.2%	7.8%	7.3%
2010	2.9%	1.4%	5.7%	7.5%	7.4%	7.0%
2011	1.1%	3.2%	4.6%	6.4%	7.0%	7.8%
2012	4.1%	7.2%	3.8%	7.0%	7.7%	7.9%
2013	18.3%	7.6%	4.4%	8.2%	8.5%	8.6%
2014	15.8%	8.0%	4.2%	9.1%	8.2%	9.1%
2015	13.1%	8.0%	5.3%	7.5%	8.6%	8.4%
<i>Cumulative Averages</i>						
1979-2008	7.7%	7.0%	7.1%	6.7%	7.0%	6.3%
1980-2009	7.6%	6.8%	7.3%	6.9%	7.1%	6.3%
1981-2010	7.4%	7.2%	7.4%	7.0%	7.2%	6.3%
1982-2011	7.3%	7.5%	7.5%	7.1%	7.3%	6.4%
1983-2012	7.3%	7.7%	7.6%	7.3%	7.4%	6.5%
1984-2013	7.7%	7.8%	7.6%	7.5%	7.5%	6.5%
1985-2014	8.1%	7.9%	7.7%	7.6%	7.7%	6.7%
1986-2015	8.3%	7.9%	7.9%	7.8%	7.8%	6.7%

Source: Ibbotson Associates, Stocks Bonds Bills and Inflation, Annual Yearbook; S&P Large Cap Index

**Betas**  
*11 Water Companies*

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Company	5 Year Average*	Recent*
Aqua America Inc.	0.30	0.50
Artesian Resources Corp.	0.44	0.40
American States Water Co.	0.43	0.75
American Water Works Co.	0.32	0.29
California Water Service Group	0.40	0.62
Connecticut Water Service, Inc.	0.55	0.64
Global Water Resources Corp.	N/A	N/A
Middlesex Water Co.	0.53	0.66
New England Service Co.	N/A	N/A
SJW Corp.	0.69	0.84
York Water Company	0.50	0.51
Average	0.46	0.58

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Source: S&P Capital IQ  
Note: \*Most recent published

**Abenaki Water Company**  
*CAPM Analysis*

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Component	Low Value	High Value
Risk Free Rate	3.11%	3.11%
Beta	0.60	0.60
Risk Premium	6.50%	8.00%
Beta x Risk Premium	<u>3.90%</u>	<u>4.80%</u>
CAPM Cost of Equity	7.01%	7.91%

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**Abenaki Water Company**  
*Market Approach to Cost of Equity*

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	Low	High
Market Returns: S&P 500	12.00%	12.50%
Risk Adjusted cost estimate:	8.25%	9.00%
DCF: 11 Water Companies		
Growth	5.00%	6.00%
Yield	<u>2.50%</u>	<u>3.00%</u>
	7.50%	9.00%
Risk Adjusted cost estimate:	8.00%	9.00%
CAPM	7.01%	7.91%
Risk Adjusted Weighted Average	7.92%	8.82%

**Abenaki Water Company**  
*Cost of Equity*

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Method	Low	Mid Point	High
Comparable Earnings	9.50%	9.75%	10.00%
Market Approach	7.92%	8.37%	8.82%
Weighted Average (Emphasizing Market Approach)	8.45%	8.83%	9.21%

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**Abenaki Water Company**  
*Overall Cost of Capital*

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Component	Cost	Weight	Weighted Average
Debt	3.75%	50.00%	1.88%
Equity	8.83%	50.00%	<u>4.41%</u>
Total			6.29%