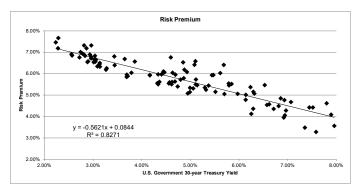
Bond Yield Plus Risk Premium

		[1]	[2]	[3]	
		Average Authorized	U.S. Govt. 30-year		
-	1992.1	Gas ROE 12.42%	Treasury 7.80%	Risk Premium 4.62%	
	1992.2	11.98%	7.89%	4.09%	
	1992.3 1992.4	11.87% 11.94%	7.45% 7.52%	4.42% 4.42%	
	1993.1 1993.2	11.75% 11.71%	7.07% 6.86%	4.68% 4.85%	
	1993.3	11.39%	6.31%	5.07%	
	1993.4 1994.1	11.16% 11.12%	6.14% 6.57%	5.02% 4.55%	
	1994.2	10.84%	7.35%	3.48%	
	1994.3 1994.4	10.87% 11.53%	7.58% 7.96%	3.28% 3.57%	
	1995.2	11.00%	6.94%	4.06%	
	1995.3 1995.4	11.07% 11.61%	6.71% 6.23%	4.35% 5.37%	
	1996.1	11.45%	6.29%	5.16%	
	1996.2 1996.3	10.88% 11.25%	6.92% 6.96%	3.96% 4.29%	
	1996.4	11.19%	6.62% 6.81%	4.58% 4.49%	
	1997.1 1997.2	11.31% 11.70%	6.93%	4.49%	
	1997.3 1997.4	12.00% 10.92%	6.53% 6.14%	5.47% 4.78%	
	1998.2	11.37%	5.85%	5.52%	
	1998.3 1998.4	11.41% 11.69%	5.47% 5.10%	5.94% 6.59%	
	1999.1	10.82%	5.37%	5.44%	
	1999.2 1999.4	11.25% 10.38%	5.79% 6.25%	5.46% 4.12%	
	2000.1	10.66%	6.29%	4.36%	
	2000.2 2000.3	11.03% 11.33%	5.97% 5.79%	5.06% 5.55%	
	2000.4	12.10%	5.69%	6.41%	
	2001.1 2001.2	11.38% 10.75%	5.44% 5.70%	5.93% 5.05%	
	2001.4	10.65%	5.30%	5.35%	
	2002.1 2002.2	10.67% 11.64%	5.51% 5.61%	5.15% 6.03%	
	2002.3	11.50%	5.08%	6.42%	
	2002.4 2003.1	11.01% 11.38%	4.93% 4.85%	6.08% 6.53%	
	2003.1	11.36%	4.60%	6.76%	
	2003.3 2003.4	10.61% 10.84%	5.11% 5.11%	5.50% 5.73%	
	2003.4	11.06%	4.88%	6.18%	
	2004.2 2004.3	10.57% 10.37%	5.32% 5.06%	5.25% 5.31%	
	2004.4	10.66%	4.86%	5.79%	
	2005.1 2005.2	10.65% 10.54%	4.69% 4.47%	5.96% 6.07%	
	2005.3	10.47%	4.44%	6.03%	
	2005.4 2006.1	10.32% 10.68%	4.68% 4.63%	5.63% 6.05%	
	2006.2	10.60%	5.14%	5.46%	
	2006.3 2006.4	10.34% 10.14%	4.99% 4.74%	5.34% 5.40%	
	2007.1 2007.2	10.52% 10.13%	4.80% 4.99%	5.72% 5.14%	
	2007.3	10.03%	4.95%	5.08%	
	2007.4 2008.1	10.12% 10.38%	4.61% 4.41%	5.50% 5.97%	
	2008.2	10.17%	4.57%	5.60%	
	2008.3 2008.4	10.55% 10.34%	4.44% 3.65%	6.11% 6.69%	
	2009.1	10.24%	3.44%	6.81%	
	2009.2 2009.3	10.11% 9.88%	4.17% 4.32%	5.94% 5.56%	
	2009.4	10.31% 10.24%	4.34% 4.62%	5.97% 5.61%	
	2010.1 2010.2	9.99%	4.36%	5.62%	
	2010.3 2010.4	10.43% 10.09%	3.86% 4.17%	6.57% 5.93%	
	2011.1	10.10%	4.56%	5.54%	
	2011.2 2011.3	9.85% 9.65%	4.34% 3.69%	5.51% 5.96%	
	2011.4	9.88%	3.04% 3.14%	6.84%	
	2012.1 2012.2	9.63% 9.83%	2.93%	6.50% 6.90%	
	2012.3 2012.4	9.75% 10.06%	2.74% 2.86%	7.01% 7.19%	
	2013.1	9.57%	3.13%	6.44%	
	2013.2 2013.3	9.47% 9.60%	3.14% 3.71%	6.33% 5.89%	
	2013.4	9.83%	3.79%	6.04%	
	2014.1 2014.2	9.54% 9.84%	3.69% 3.44%	5.85% 6.39%	
	2014.3 2014.4	9.45% 10.28%	3.26% 2.96%	6.19% 7.32%	
	2015.1	9.47%	2.55%	6.91%	
	2015.2 2015.3	9.43% 9.75%	2.88% 2.96%	6.55% 6.79%	
	2015.4	9.68%	2.96%	6.72%	
	2016.1 2016.2	9.48% 9.42%	2.72% 2.57%	6.76% 6.85%	
	2016.3 2016.4	9.47% 9.67%	2.28% 2.83%	7.19% 6.84%	
	2017.1	9.60%	3.04%	6.56%	
	2017.2 2017.3	9.47% 10.14%	2.90% 2.82%	6.58% 7.32%	
	2017.4	9.70%	2.82%	6.88%	
	2018.1 2018.2	9.68% 9.43%	3.02% 3.09%	6.66% 6.34%	
	2018.3	9.71%	3.06%	6.65%	
	2018.4 2019.1	9.53% 9.55%	3.28% 3.01%	6.25% 6.54%	
	2019.2	9.73% 9.95%	2.78% 2.29%	6.94% 7.66%	
	2019.4	9.70%	2.23%	7.47%	
	AVERAGE MEDIAN	10.51% 10.40%	4.75% 4.69%	5.77% 5.91%	
-		-			



SUMMARY OUTPUT

Regression Stati	istics
Multiple R	0.90943043
R Square	0.82706371
Adjusted R Square	0.82543224
Standard Error	0.00393693
Observations	108

ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.007857303	0.007857303	506.9424978	3.4405E-42
Residual	106	0.001642936	1.54994E-05		
Total	107	0.009500239			

•	Coefficients Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0% Up	per 95.0%
Intercept	0.08435606 0.001243799	67.82129987	3.84683E-89	0.08189011	0.086822	0.08189011 0	.08682201
U.S. Govt. 30-year Treasury	-0.5620696 0.024963802	-22.51538358	3.4405F-42	-0.611562748	-0.5125764	-0.6115627 -	0.5125764

	[7]	[8]	[9]
	U.S. Govt. 30-year	Risk	
	Treasury	Premium	ROE
Current 30-Day Average [4]	2.28%	7.16%	9.43%
Blue Chip Consensus Forecast (Q1 2020 - Q1 2021) [5]	2.36%	7.11%	9.47%
Blue Chip Consensus Forecast (2021-2025) [6]	3.60%	6.41%	10.01%
MEAN			9.64%

- Notes:

 [1] Source: Regulatory Research Associates, accessed December 16, 2019.

 [2] Source: Bloomberg Professional, quarterly bond yields are the average of the last price of each trading day in the quarter [3] Equals Column [1] Column [2]

 [4] Source: Bloomberg Professional, as of November 29, 2019

 [5] Source: Blue Chip Financial Forecasts, Vol. 38, No. 11, November 1, 2019, at 2

 [6] Source: Blue Chip Financial Forecasts, Vol. 38, No. 6, June 1, 2019, at 14

 [7] See notes [4], [5] & [6]

 [8] Equals 0.084356 + (-0.562070 x Column [7])

 [9] Equals Column [7] + Column [8]