Exhibit No.: Issue: Rate of Return/Capital Structure Witness: Robert B. Hevert Sponsoring Party: Liberty Utilities Case No.: GR-2014-0152 Date Testimony Prepared: February 6, 2014

MISSOURI PUBLIC SERVICE COMMISSION

Case No. GR-2014-0152

DIRECT TESTIMONY

OF

ROBERT B. HEVERT

SUSSEX ECONOMIC ADVISORS, LLC

Submitted on Behalf Of

LIBERTY UTILITIES (MIDSTATES NATURAL GAS) CORP. d/b/a LIBERTY UTILITIES

February 6, 2014

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1		BEFORE THE
2		MISSOURI PUBLIC SERVICE COMMISSION
3		CASE No. GR-2014-0152
4		DIRECT TESTIMONY
5		OF
6		Robert B. Hevert
7		SUSSEX ECONOMIC ADVISORS, LLC
8		Submitted on Behalf Of
9		LIBERTY UTILITIES
10	I.	INTRODUCTION
11	Q.	Please state your name, affiliation and business address.
12	A.	My name is Robert B. Hevert. I am Managing Partner of Sussex Economic Advisors,
13		LLC ("Sussex"). My business address is 161 Worcester Road, Suite 503, Framingham,
14		Massachusetts 01701.
15	Q.	On whose behalf are you submitting this testimony?
16	A.	I am submitting this direct testimony ("Direct Testimony") before the Missouri Public
17		Service Commission ("Commission") on behalf of Liberty Utilities (Midstates Natural
18		Gas) Corp., d/b/a Liberty Utilities ("Liberty Utilities" or the "Company"), an indirect
19		wholly owned subsidiary of Algonquin Power & Utilities Corp.
20	Q.	Please describe your educational background.
21	A.	I hold a Bachelor's degree in Business and Economics from the University of Delaware,
22		and an MBA with a concentration in Finance from the University of Massachusetts. I

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also hold the Chartered Financial Analyst designation.

2 Q. Please describe your experience in the energy and utility industries.

3 A. I have worked in regulated industries for over twenty five years, having served as an 4 executive and manager with consulting firms, a financial officer of a publicly-traded natural gas utility (at the time, Bay State Gas Company), and an analyst at a 5 6 telecommunications utility. In my role as a consultant, I have advised numerous energy 7 and utility clients on a wide range of financial and economic issues, including corporate 8 and asset-based transactions, asset and enterprise valuation, transaction due diligence, 9 and strategic matters. As an expert witness, I have provided testimony in approximately 10 100 proceedings regarding various financial and regulatory matters before numerous state 11 utility regulatory agencies and the Federal Energy Regulatory Commission. A summary 12 of my professional and educational background, including a list of my testimony in prior 13 proceedings, is included in Attachment A to my Direct Testimony.

14

II. PURPOSE AND OVERVIEW OF TESTIMONY

15 Q. What is the purpose of your Direct Testimony?

A. The purpose of my Direct Testimony is to present evidence and provide a
recommendation regarding the Company's return on equity ("ROE") and capital
structure.¹ My analyses and conclusions are supported by the data presented in Schedule
RBH-1 through Schedule RBH-11, which have been prepared by me or under my
direction. Accordingly, I also sponsor Schedule COS-9, Capital Structure and Cost of
Capital, as noted by Company witness James Fallert.

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Throughout my Direct Testimony, I interchangeably use the terms "ROE" and "Cost of Equity."

Q. What are your conclusions regarding the appropriate Cost of Equity, capital structure and cost of debt for the Company?

A. My analyses indicate that the Company's Cost of Equity currently is in the range of 10.00
percent to 10.50 percent. Based on the quantitative and qualitative analyses discussed
throughout my Direct Testimony, I recommend that the Commission authorize the
Company the opportunity to earn an ROE of 10.50 percent.

As to the Company's capital structure, which includes 58.34 percent common equity and 41.66 percent long-term debt, I note that it is consistent with those in place at comparable operating utility companies. In light of the ongoing need to access capital markets, and seeing that it is consistent with similarly situated utility companies, I conclude that the Company's capital structure is reasonable and appropriate.

Lastly, I note that the Company's 4.78 percent cost of debt is consistent with, although lower than, the debt cost rates authorized for natural gas utilities during calendar year 2013. As such, I conclude that the Company's cost of debt is reasonable and appropriate.

16 Q. Please provide a brief overview of the analyses that led to your ROE 17 recommendation.

A. Because all models are subject to various assumptions and constraints, equity analysts and investors tend use multiple methods to develop their return requirements. I therefore relied on three widely-accepted approaches to develop my ROE recommendation: (1) the Discounted Cash Flow ("DCF") model, including the Quarterly Growth, Constant Growth, and Multi-Stage forms; (2) the Capital Asset Pricing Model ("CAPM"); and (3) the Bond Yield Plus Risk Premium approach.

1		My recommendation also takes into consideration the Company's risk profile, in
2		particular its relatively small size, and the direct costs associated with equity issuances.
3		Although I did not make explicit adjustments to my ROE estimates for those factors, I did
4		take them into consideration in determining the range in which the Company's Cost of
5		Equity likely falls.
6	Q.	How is the remainder of your Direct Testimony organized?
7	A.	The remainder of my Direct Testimony is organized as follows:
8		• Section III – Discusses the regulatory guidelines and financial considerations
9		pertinent to the development of the cost of capital;
10		• Section IV – Explains my selection of the proxy group used to develop my
11		analytical results;
12		• Section V – Explains my analyses and the analytical bases for my ROE
13		recommendation;
14		• Section VI - Provides a discussion of specific business risks and other
15		considerations that have a direct bearing on the Company's Cost of Equity;
16		• <u>Section VII</u> – Highlights the current capital market conditions and their effect on
17		the Company's Cost of Equity;
18		• <u>Section VIII</u> – Addresses the reasonableness of the Company's capital structure;
19		• <u>Section IX</u> – Briefly discusses the Company's cost of debt; and
20		• <u>Section X</u> – Summarizes my conclusions and recommendations.

1 III. <u>REGULATORY GUIDELINES AND FINANCIAL CONSIDERATIONS</u>

2 Q. Please provide a brief summary of the guidelines established by the United States 3 Supreme Court (the "Court") for the purpose of determining the ROE.

- A. The Supreme Court established the guiding principles for establishing a fair return for
 capital in two cases: (1) *Bluefield Water Works and Improvement Co. v. Public Service*
- 6 Comm'n of West Virginia (Bluefield); and (2) Federal Power Comm'n v. Hope Natural
- 7 *Gas Co. (Hope).* In those cases, the Court recognized that the fair rate of return on equity
- 8 should be: (1) comparable to returns investors expect to earn on other investments of
- 9 similar risk; (2) sufficient to assure confidence in the company's financial integrity; and
- 10 (3) adequate to maintain and support the company's credit and to attract capital.

11 Q. Does Missouri precedent provide similar guidance?

12 A. Yes, the Commission cited the *Hope* and *Bluefield* decisions at some length and

- 13 acknowledged its authority and responsibility to set "just and reasonable" rates for public
- 14 utility service, stating that:
- 15 A "just and reasonable" rate is one that is fair to both the utility and its 16 customers; it is no more than is sufficient to "keep public utility plants 17 in proper repair for effective public service, [and] ...to insure to the 18 investors a reasonable return upon funds invested."²
- 19 Based on those standards, the authorized ROE should provide the Company with
- 20 the opportunity to earn a fair and reasonable return and should enable efficient access to
- 21 external capital under a variety of market conditions.

22 Q. Why is it important for a utility to be allowed the opportunity to earn a return

² In the Matter of Missouri Gas Energy and its Tariff Filing to Implement a General Rate Increase for Natural Gas Service, Report and Order, Missouri Public Service Commission, Case No. GR-2009-0355. February 10, 2010, at 7.

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adequate to attract equity capital at reasonable terms?

2 A. A return that is adequate to attract capital at reasonable terms enables the utility to 3 provide service while maintaining its financial integrity. In keeping with the Hope and 4 Bluefield standards, that return should be commensurate with the returns expected 5 elsewhere in the market for investments of equivalent risk. The consequence of the 6 Commission's order in this case, therefore, should be to provide Liberty Utilities with the 7 opportunity to earn a return on equity that is: (1) adequate to attract capital at reasonable 8 terms; (2) sufficient to ensure its financial integrity; and (3) commensurate with returns 9 on investments in enterprises having corresponding risks. To the extent Liberty Utilities 10 is provided a reasonable opportunity to earn its market-based Cost of Equity, neither 11 customers nor shareholders should be disadvantaged. In fact, a return that is adequate to 12 attract capital at reasonable terms enables Liberty Utilities to provide safe, reliable 13 natural gas utility service while maintaining its financial integrity.

14 IV. PROXY GROUP SELECTION

Q. As a preliminary matter, why is it necessary to select a group of proxy companies to determine the Cost of Equity for the Company?

A. Since the ROE is a market-based concept, and Liberty Utilities is not a publicly traded entity, it is necessary to establish a group of comparable publicly-traded companies to serve as its "proxy." Even if Liberty Utilities were a publicly traded entity, short-term events could bias its market value during a given period of time. A significant benefit of using a proxy group is that it serves to moderate the effects of anomalous, temporary events associated with any one company.

- 1Q.Does the selection of a proxy group suggest that analytical results will be tightly2clustered around average (*i.e.*, mean) results?
- 3 A. No. For example, the Constant Growth DCF approach, defines the Cost of Equity as the 4 sum of the expected dividend yield and projected long-term growth. Despite the care 5 taken to ensure risk comparability, market expectations with respect to future risks and growth opportunities will vary from company to company. Therefore, even within a 6 7 group of similarly situated companies, it is common for analytical results to reflect a 8 seemingly wide range. Consequently, at issue is how to estimate a Company's ROE from 9 within that range. That determination necessarily must consider a wide range of both 10 empirical and qualitative information.
- 11 Q. Please provide a summary profile of Liberty Utilities.
- A. Liberty Utilities, which is an indirect wholly owned subsidiary of Algonquin Power &
 Utilities Corp., provides natural gas distribution service to approximately 82,000
 customers in Missouri, Illinois, and Iowa³
- 15 Q. How did you select the companies included in your proxy group?

A. I began with the universe of companies that Value Line classifies as Electric or Natural
 Gas Utilities, which includes a group of 58 domestic U.S. utilities, and applied the
 following screening criteria:

- 19
 - I excluded companies that do not consistently pay quarterly cash dividends;
- All of the companies in my proxy group have been covered by at least two utility
 industry equity analysts;
 - Source: Algonquin Power & Utilities Corp, 2012 Annual Report, December 31, 2012, at 18.
 - 3

- All of the companies in my proxy group have investment grade senior unsecured 1 • bond and/or corporate credit ratings from Standard & Poor's ("S&P")⁴; 2 3 To ensure that my proxy group represents natural gas distribution operations, I • 4 included companies with at least 60.00 percent of consolidated net operating 5 income derived from regulated natural gas utility operations; and 6 I eliminated companies currently known to be party to a merger, or other ٠ 7 significant transaction. 8 What companies met those screening criteria? **Q**.
- 9 A. The criteria discussed above resulted in a proxy group of the following nine companies:
- 10

Table 1:	Proxy	Group	Screening	Results
----------	-------	-------	-----------	---------

Company	Ticker
AGL Resources	GAS
Atmos Energy	ATO
Laclede Group	LG
New Jersey Resources	NJR
Northwest Natural Gas	NWN
Piedmont Natural Gas	PNY
South Jersey Industries	SJI
Southwest Gas	SWX
Washington Gas Light	WGL

11

12 Q. Do you believe that a proxy group of nine companies is sufficiently large?

13 A. Yes. The analyses performed in estimating the ROE are more likely to be representative

14 of the subject utility's Cost of Equity to the extent that the chosen proxy companies are

⁴ The Company's ultimate parent, Algonquin Power & Utilities Corp., along with Liberty Utilities Co., was upgraded from BBB- to BBB by Standard and Poor's on October 11, 2013

fundamentally comparable to the subject utility. Because all analysts use some form of
screening process to arrive at a proxy group, the group, by definition, is not randomly
drawn from a larger population. Consequently, there is no reason to place more reliance
on the quantitative results of a larger proxy group simply by virtue of the resulting larger
number of observations.

6 Moreover, because I am using market-based data, my analytical results will not 7 necessarily be tightly clustered around a central point. Results that may be somewhat 8 dispersed, however, do not suggest that the screening approach is inappropriate or the 9 results less meaningful. In my view, including companies whose fundamental 10 comparability is tenuous at best simply for the purpose of expanding the number of 11 observations does not add relevant information to the analysis.

12

V. <u>COST OF EQUITY ESTIMATION</u>

13 Q. Please briefly discuss the ROE in the context of the regulated rate of return.

A. Regulated utilities primarily use common stock and long-term debt to finance their
capital investments. The overall rate of return ("ROR") weighs the costs of the
individual sources of capital by their respective book values. While the cost of debt can
be directly observed, the Cost of Equity is market-based and, therefore, must be estimated
based on observable market information.

19

Q. How is the required ROE determined?

A. I estimated the ROE using analyses based on market data to quantify a range of investor
 expectations of required equity returns. By their very nature, quantitative models
 produce a range of results from which the market required ROE must be estimated. As

1	discussed throughout my Direct Testimony, that estimation must be based on a
2	comprehensive review of relevant data and information, and does not necessarily lend
3	itself to a strict mathematical solution. Consequently, the key consideration in
4	determining the ROE is to ensure that the overall analysis reasonably reflects investors'
5	view of the financial markets in general and the subject company (in the context of the
6	proxy companies) in particular.

7 Quarterly Growth DCF Model

8 Q. Are DCF models widely used in regulatory proceedings?

9 A. Yes. In my experience, the DCF model is widely recognized in regulatory proceedings,
10 as well as in financial literature. Nonetheless, neither the DCF nor any other model
11 should be applied without considerable judgment in the selection of data and the
12 interpretation of results.

13

Q. Please describe the DCF approach.

A. The DCF approach is based on the theory that a stock's current price represents the
present value of all expected future cash flows. In its simplest form, the DCF model
expresses the Cost of Equity as the sum of the expected dividend yield and long-term
growth rate, and is expressed as follows:

18
$$P = \frac{D_1}{(1+k)} + \frac{D_2}{(1+k)^2} + \dots + \frac{D_{\infty}}{(1+k)^{\infty}}$$
 Equation [1]

19 where *P* represents the current stock price, $D_1 \dots D_\infty$ represent expected future dividends, 20 and *k* is the discount rate, or required ROE. Equation [1] is a standard present value 21 calculation that can be simplified and rearranged into the familiar form:

22
$$k = \frac{D_0 (1+g)}{p} + g$$
 Equation [2]

Equation [2] often is referred to as the "Constant Growth DCF" model, in which the first term is the expected dividend yield and the second term is the expected long-term annual growth rate.

4 In essence, the DCF model assumes that the total return received by investors 5 includes the dividend yield, and the rate of growth. As explained below, under the model's assumptions, the rate of growth equals the rate of capital appreciation. That is, 6 7 the model assumes that the investor's return is the sum of the dividend yield and the 8 increase in the stock price. However, most dividend-paying companies, including 9 utilities, pay dividends on a quarterly (as opposed to an annual) basis. The yield component of the Quarterly Growth DCF model, therefore, accounts for the quarterly 10 11 payment of dividends. Thus, the Quarterly Growth DCF model incorporates investors' 12 expectation of the quarterly payment of dividends, and the associated quarterly 13 compounding of those dividends as they are reinvested at investors' required ROE. As

14 noted by Dr. Roger Morin:

15 Clearly, given that dividends are paid quarterly and that the observed 16 stock price reflects the quarterly nature of dividend payments, the 17 market-required return must recognize quarterly compounding, for the 18 investor receives dividend checks and reinvests the proceeds on a 19 quarterly schedule ... The annual DCF model inherently understates 20 the investors' true return because it assumes all cash flows received by 21 investors are paid annually.⁵

- Q. How is the dividend yield component of the Quarterly Growth DCF model
 calculated?
- 24 A. The dividend yield is calculated such that it incorporates the time value of money

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Roger A. Morin, <u>New Regulatory Finance</u>, Public Utility Reports, Inc., 2006 at 344.

	associated with quarterly compounding. To do so, the D component of the Constant
	Growth DCF model is replaced with the following equation:
	$D = d_1(1+k)^{.75} + d_2(1+k)^{.50} + d_3(1+k)^{.25} + d_4(1+k)^0 $ Equation [3]
	where:
	d_1, d_2, d_3, d_4 = expected quarterly dividends over the coming year
	k = the required Return on Equity
	Due to the fact that the required ROE (k) is a variable in the dividend calculation, the
	Quarterly Growth DCF model is solved in an iterative fashion.
Q.	What market data did you use to calculate the dividend yield in your Quarterly
	Growth DCF model?
A.	To calculate the expected dividends over the coming year for the proxy companies (i.e.,
	d_1 , d_2 , d_3 , and d_4), I obtained the last four paid quarterly dividends for each company,
	and multiplied them by one plus the growth rate (<i>i.e.</i> , $1 + g$). For the P ₀ component of
	the dividends yield, I obtained the closing stock prices over the 30-, 90-, and 180-trading
	days ended December 31, 2013 for each company in the proxy group.
Q.	Why did you use three averaging periods to calculate an average stock price?
A.	I did so to ensure that the model's results are not skewed by anomalous events that may
	affect stock prices on any given trading day. At the same time, the averaging period
	should be reasonably representative of expected capital market conditions over the long
	term. In my view, using 30-, 90-, and 180-day averaging periods reasonably balances
	those concerns.
	А. Q.

Q. Is it important to select appropriate measures of long-term growth in applying the DCF model?

3 A. Yes. In its Constant Growth form, the DCF model (*i.e.*, as presented in Equation [2] 4 above) assumes a single growth estimate in perpetuity. The same assumption is made in 5 the Quarterly Growth DCF model. Accordingly, in order to reduce the long-term growth rate to a single measure, one must assume a fixed payout ratio, and the same constant 6 7 growth rate for earnings per share ("EPS"), dividends per share, and book value per 8 share. Since dividend growth can only be sustained by earnings growth, the model should incorporate a variety of measures of long-term earnings growth. That can be 9 10 accomplished by averaging those measures of long-term growth that tend to be least 11 influenced by capital allocation decisions that companies may make in response to near-12 term changes in the business environment. Since such decisions may directly affect nearterm dividend payout ratios, estimates of earnings growth are more indicative of long-13 14 term investor expectations than are dividend growth estimates. Therefore, for the 15 purposes of the Quarterly Growth DCF model, growth in EPS represents the appropriate 16 measure of long-term growth.

Q. Please summarize the findings of academic research on the appropriate measure for estimating equity returns using the DCF model.

A. The relationship between various growth rates and stock valuation metrics has been the
 subject of much academic research.⁶ As noted over 40 years ago by Charles Phillips
 in The Economics of Regulation:

⁶ See, for example, Harris, Robert, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, <u>Financial Management</u>, Spring 1986.

For many years, it was thought that investors bought utility stocks largely on the basis of dividends. More recently, however, studies indicate that the market is valuing utility stocks with reference to total per share earnings, so that the earnings-price ratio has assumed increased emphasis in rate cases.⁷

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Philips' conclusion continues to hold true. Subsequent academic research has 6 7 clearly and consistently indicated that measures of earnings and cash flow are strongly 8 related to returns, and that analysts' forecasts of growth are superior to other measures of growth in predicting stock prices.⁸ For example, Vander Weide and Carleton state that, 9 "[our] results...are consistent with the hypothesis that investors use analysts' forecasts, 10 11 rather than historically oriented growth calculations, in making stock buy-and-sell decisions."9 Other research specifically notes the importance of analysts' growth 12 estimates in determining the Cost of Equity, and in the valuation of equity securities. Dr. 13 Robert Harris noted that "a growing body of knowledge shows that analysts' earnings 14 forecast are indeed reflected in stock prices." Citing Cragg and Malkiel, Dr. Harris notes 15 that those authors "found that the evaluations of companies that analysts make are the 16 sorts of ones on which market valuation is based."¹⁰ Similarly, Brigham, Shome and 17 18 Vinson noted that "evidence in the current literature indicates that (i) analysts' forecasts 19 are superior to forecasts based solely on time series data; and (ii) investors do rely on

⁷ Charles F. Phillips, Jr., <u>The Economics of Regulation</u>, Revised Edition, 1969, Richard D. Irwin, Inc., at 285.

⁸ See, for example, Christofi, Christofi, Lori and Moliver, Evaluating Common Stocks Using Value Line's Projected Cash Flows and Implied Growth Rate, Journal of Investing (Spring 1999); Harris and Marston, Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts, <u>Financial Management</u>, 21 (Summer 1992); and Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, <u>The</u> Journal of Portfolio Management, Spring 1988.

⁹ Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, <u>The Journal of Portfolio</u> <u>Management</u>, Spring 1988.

¹⁰ Robert S. Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management, Spring 1986.

1 analysts' forecasts."¹¹

To that point, the research of Carleton and Vander Weide demonstrates that earnings growth projections have a statistically significant relationship to stock valuation levels, while dividend growth rates do not.¹² Those findings suggest that investors form their investment decisions based on expectations of growth in earnings, not dividends. Consequently, earnings growth not dividend growth is the appropriate estimate for the purpose of the Constant Growth DCF model.

8 Q. Please describe the Retention Growth estimate as applied in your Quarterly Growth 9 DCF model.

10 A. The Retention Growth model, which is a generally recognized and widely taught method 11 of estimating long-term growth, is an alternative approach to the use of analysts' earnings 12 growth estimates. In essence, the model is premised on the proposition that a firm's 13 growth is a function of its expected earnings, and the extent to which it retains earnings to 14 invest in the enterprise. In its simplest form, the model represents long-term growth as 15 the product of the retention ratio (i.e., the percentage of earnings not paid out as 16 dividends (referred to below as "b") and the expected return on book equity (referred to 17 below as "r")). Thus, the simple "b x r" form of the model projects growth as a function 18 of internally generated funds. That form of the model is limiting, however, in that it does 19 not provide for growth funded from external equity.

20

The "br + sv" form of the Retention Growth estimate used in my DCF analysis is

Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, *The Risk Premium Approach to Measuring a Utility's Cost of Equity*, <u>Financial Management</u>, Spring 1985.
 Number Weite and Constant and Constant

² See Vander Weide and Carleton, *Investor Growth Expectations: Analysts vs. History*, <u>The Journal of</u> <u>Portfolio Management</u>, Spring 1988.

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1		meant to reflect growth from both internally generated funds (i.e., the "br" term) and
2		from issuances of equity (<i>i.e.</i> , the "sv" term). The first term, which is the product of the
3		retention ratio (i.e., "b", or the portion of net income not paid in dividends) and the
4		expected Return on Equity (i.e., "r") represents the portion of net income that is "plowed
5		back" into the Company as a means of funding growth. The "sv" term is represented as:
6		$\left(\frac{m}{b}-1\right)$ x Growth rate in Common Shares Equation [4]
7		where $\frac{m}{b}$ is the Market-to-Book ratio.
8		In this form, the "sv" term reflects an element of growth as the product of (a) the
9		growth in shares outstanding, and (b) that portion of the market-to-book ratio that
10		exceeds unity. As shown in Schedule RBH-4, all of the components of the Retention
11		Growth model can be derived from data provided by Value Line.
11 12	Q.	Growth model can be derived from data provided by Value Line. How did you calculate the high and low DCF results?
	Q. A.	
12		How did you calculate the high and low DCF results?
12 13		How did you calculate the high and low DCF results? I calculated the proxy group mean high DCF results by using the maximum EPS growth
12 13 14		How did you calculate the high and low DCF results? I calculated the proxy group mean high DCF results by using the maximum EPS growth rate as reported by Value Line, Zacks, First Call, and the Retention Growth estimate for
12 13 14 15		How did you calculate the high and low DCF results? I calculated the proxy group mean high DCF results by using the maximum EPS growth rate as reported by Value Line, Zacks, First Call, and the Retention Growth estimate for each proxy group company in combination with the dividend yield for each of the proxy
12 13 14 15 16		How did you calculate the high and low DCF results? I calculated the proxy group mean high DCF results by using the maximum EPS growth rate as reported by Value Line, Zacks, First Call, and the Retention Growth estimate for each proxy group company in combination with the dividend yield for each of the proxy companies. The proxy group mean high results then reflect the average of the maximum
12 13 14 15 16 17		How did you calculate the high and low DCF results? I calculated the proxy group mean high DCF results by using the maximum EPS growth rate as reported by Value Line, Zacks, First Call, and the Retention Growth estimate for each proxy group company in combination with the dividend yield for each of the proxy companies. The proxy group mean high results then reflect the average of the maximum DCF results for the proxy group as a whole. I used a similar approach to calculate the
12 13 14 15 16 17 18		How did you calculate the high and low DCF results? I calculated the proxy group mean high DCF results by using the maximum EPS growth rate as reported by Value Line, Zacks, First Call, and the Retention Growth estimate for each proxy group company in combination with the dividend yield for each of the proxy companies. The proxy group mean high results then reflect the average of the maximum DCF results for the proxy group as a whole. I used a similar approach to calculate the proxy group mean low results using instead the minimum of the Value Line, Zacks, First
12 13 14 15 16 17 18 19	A.	How did you calculate the high and low DCF results? I calculated the proxy group mean high DCF results by using the maximum EPS growth rate as reported by Value Line, Zacks, First Call, and the Retention Growth estimate for each proxy group company in combination with the dividend yield for each of the proxy companies. The proxy group mean high results then reflect the average of the maximum DCF results for the proxy group as a whole. I used a similar approach to calculate the proxy group mean low results using instead the minimum of the Value Line, Zacks, First Call and the Retention Growth estimate for each proxy group company.

	Mean Low	Mean	Mean High
30-Day Average	8.05%	9.29%	10.76%
90-Day Average	8.05%	9.28%	10.76%
180-Day Average	8.03%	9.26%	10.74%

Table 2: Quarterly Growth DCF Results¹³

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3 Constant Growth DCF Model

4 Q. What assumptions are required for the Constant Growth DCF model?

A. The Constant Growth DCF model assumes: (1) a constant average annual growth rate for
earnings and dividends; (2) a stable dividend payout ratio; (3) a constant price-toearnings multiple; and (4) a discount rate greater than the expected growth rate. Under
those assumptions, dividends, earnings, book value, and the stock price all grow at the
same, constant rate.

10 Q. What market data did you use to calculate the dividend yield component of your 11 DCF model?

A. The dividend yield is based on the proxy companies' current annualized dividend, and
average closing stock prices over the 30-, 90-, and 180-trading day periods as of
December 31, 2013.

Q. Did you make any adjustments to the dividend yield to account for periodic growth in dividends?

A. Yes. Since utilities increase their quarterly dividends at different times throughout the
year, it is reasonable to assume that dividend increases will be evenly distributed over

13

DCF results presented in Table 2 are unadjusted (i.e., prior to any adjustment for flotation costs).

1		calendar quarters. Given that assumption, it is appropriate to calculate the expected
2		dividend yield by applying one-half of the long-term growth rate to the current dividend
3		yield. ¹⁴ That adjustment ensures that the expected dividend yield is representative of the
4		coming twelve-month period, and does not overstate the dividends to be paid during that
5		time.
6	Q.	What growth rates did you use in your Constant Growth DCF model analysis?
7	A.	I used the same projected EPS growth rates as well as the Retention Growth estimate
8		applied in my Quarterly Growth DCF model analysis.
9	Q.	Please summarize your inputs to the Constant Growth DCF model.
10	A.	I used the following inputs for the price and dividend terms:
11		1. The average daily closing prices for the 30-, 90-, and 180-trading days
12		ended December 31, 2013, for the term P_0 ; and
13		2. The annualized dividend per share as of December 31, 2013, for the term
14		$D_0.$
15		I then calculated my DCF results using each of the following growth terms:
16		1. The Zacks consensus long-term earnings growth estimates;
17		2. The First Call consensus long-term earnings growth estimates;
18		3. The Value Line long-term earnings growth estimates; and
19		4. An estimate of Retention Growth.
20	Q.	What are the results of your Constant Growth DCF analysis?
21	A.	My Constant Growth DCF results are summarized in Table 3, below (see also Schedule

¹⁴ See Schedule-RBH-2

1 RBH-2).

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Table 3: Constant Growth DCF Results¹⁵

	Mean Low	Mean	Mean High
30-Day Average	7.93%	9.12%	10.55%
90-Day Average	7.92%	9.12%	10.55%
180-Day Average	7.90%	9.10%	10.53%

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4 Multi-Stage DCF Model

5 Q. What other forms of the DCF model have you used?

A. In order to address certain limiting assumptions underlying the Constant Growth form of
the DCF model, I also considered the Multi-Stage (three-stage) DCF Model. The MultiStage model, which is an extension of the Constant Growth form, enables the analyst to
specify growth rates over three distinct stages. As with the Constant Growth form of the
DCF model, the Multi-Stage form defines the Cost of Equity as the discount rate that sets
the current price equal to the discounted value of future cash flows. Unlike the Constant
Growth form, however, the Multi-Stage model must be solved in an iterative fashion.

13 Q. Please generally describe the structure of your Multi-Stage model.

A. As noted above, the model sets the subject company's stock price equal to the present value of future cash flows received over three "stages". In the first two stages, "cash flows" are defined as projected dividends. In the third stage, "cash flows" equal both dividends and the expected price at which the stock will be sold at the end of the period (*i.e.*, the "terminal price"). I calculated the terminal price based on the Gordon model,

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DCF results presented in Table 3 are unadjusted (*i.e.*, prior to any adjustment for flotation costs).

which defines the price as the expected dividend divided by the difference between the
Cost of Equity (*i.e.*, the discount rate) and the long-term expected growth rate. In
essence, the terminal price is defined by the present value of the remaining "cash flows"
in perpetuity. In each of the three stages, the dividend is the product of the projected
earnings per share and the expected dividend payout ratio. A summary description of the
model is provided in Table 4 (below).

Stage	0	1	2	3
Cash Flow	Initial Stock	Expected	Expected	Expected
Component	Price	Dividend	Dividend	Dividend +
				Terminal
				Value
Inputs	Stock Price	Expected EPS	Expected EPS	Expected EPS
	Earnings Per	Expected DPS	Expected DPS	Expected DPS
	Share (EPS)	_	_	Terminal
	Dividends Per			Value
	Share (DPS)			
Assumptions	30-, 90-, and	EPS Growth	Growth Rate	Long-term
	180-day	Rate	Change	Growth Rate
	average stock	Payout Ratio	Payout Ratio	Long-term
	price	-	Change	Payout Ratio

Table 4:	Multi-Stage	DCF Structure
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10 Q. What are the analytical benefits of your three-stage model?

11 A. The principal benefits relate to the flexibility provided by the model's formulation. Since 12 the model provides the ability to specify near, intermediate and long-term growth rates, 13 for example, it avoids the sometimes limiting assumption that the subject company will 14 grow at the same, constant rate in perpetuity. In addition, by calculating the dividend as 15 the product of earnings and the payout ratio, the model enables analysts to reflect 16 assumptions regarding the timing and extent of changes in the payout ratio to reflect, for example, increases or decreases in expected capital spending, or transition from current
payout levels to long-term expected levels. In that regard, because the model relies on
multiple sources of earnings growth rate assumptions, it is not limited to a single source,
such as Value Line, for all inputs, and mitigates the potential bias associated with relying
on a single source of growth estimates.¹⁶

The model also enables the analyst to assess the reasonableness of the inputs and 6 7 results by reference to certain market-based metrics. For example, the stock price 8 estimate can be divided by the expected earnings per share in the final year to calculate an average Price to Earnings ("P/E") ratio. Similarly, the terminal P/E ratio can be 9 divided by the terminal growth rate to develop a Price to Earnings Growth ("PEG") ratio. 10 11 To the extent that either the projected P/E or PEG ratios are inconsistent with either 12 historical or expected levels, it may indicate incorrect or inconsistent assumptions within 13 the balance of the model.

. .

14 Q. Please summarize your inputs to the Multi-Stage DCF model.

A. I applied the Multi-Stage model to the proxy group described earlier in my Direct
Testimony. My assumptions with respect to the various model inputs are described in
Table 5 (below).

¹⁶ See, for example, Harris and Marston, *Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts*, <u>Financial Management</u>, 21 (Summer 1992).

Stage	Initial	First	Transition	Terminal
Stock Price	30-, 90-, and 180-day average stock price as of December 31, 2013			
Earnings Growth	2012 actual EPS escalated by Period 1 growth rate	EPS growth as average of (1) Value Line; (2) Zacks; (3) First Call; (4) Retention Growth rates	Transition to Long-term GDP growth	Long-term GDP growth
Payout Ratio	Value Line company- specific	Value Line company- specific	Transition to long-term industry payout ratio	Long-term expected payout ratio
Terminal Value				Expected dividend in final year divided by solved Cost of Equity less long-term growth rate

Table 5: Multi-Stage DCF Model Assumptions

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3 Q. How did you calculate the long-term GDP growth rate?

A. The long-term growth rate of 5.71 percent is based on the real GDP growth rate of 3.29
percent from 1929 through 2012,¹⁷ and an inflation rate of 2.35 percent.¹⁸ The GDP
growth rate is calculated as the compound growth rate in the chain-weighted GDP for the
period from 1929 through 2012. The rate of inflation of 2.35 percent is a compound
annual forward rate starting in ten years (*i.e.*, 2024, which is the beginning of the terminal

¹⁷ *See* Bureau of Economic Analysis, December 5, 2013 update.

¹⁸ See Board of Governors of the Federal Reserve System, Table H.15 Selected Interest Rates.

period) and is based on the 30-day average projected inflation based on the spread
 between yields on long-term nominal Treasury Securities and long-term Treasury
 Inflation Protected Securities, known as the "TIPS spread".

4 In essence, my real GDP growth rate projection is based on the assumption that 5 absent specific knowledge to the contrary, it is reasonable to assume that over time, real GDP growth will revert to its long-term mean. Moreover, since estimating the Cost of 6 7 Equity is a market-based exercise, it is important to reflect the sentiments and 8 expectations of investors to the extent possible. In that important respect, the TIPS 9 spread represents the collective views of investors regarding long-term inflation 10 expectations. Equally important, by using forward yields we are able to infer the level of 11 long-term inflation expected by investors as of the terminal period of the Multi-Stage 12 model (that is, ten years in the future).

13 Q. What were your specific assumptions with respect to the payout ratio?

A. As noted in Table 5, for the first two periods, I relied on the first year and long-term projected payout ratios reported by Value Line¹⁹ for each of the proxy companies. I then assumed that by the end of the second period (*i.e.*, the end of year 10), the payout ratio will converge to the industry expected ratio of 69.45 percent.²⁰ Table 6 (below; *see* also Schedule RBH-3) presents the Multi-Stage DCF analysis results. Using the Gordon model to calculate the terminal stock price, the Multi-Stage DCF analysis produces a range of results from 9.56 percent to 10.36 percent.

²⁰ Source: Bloomberg Professional

¹⁹ As reported in the Value Line Investment Survey as "All Div'ds to Net Prof."

	Low	Mean	High
30-Day Average	9.58%	9.92%	10.36%
90-Day Average	9.58%	9.91%	10.36%
180-Day Average	9.56%	9.89%	10.34%

Table 6: Multi-Stage DCF Model Results²¹

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3 Discounted Cash Flow Model Results

4 Q. Please summarize the results of your DCF analyses.

A. Table 7 (below) (*see* also Schedule RBH-1, Schedule RBH-2 and Schedule RBH-3)
presents the results of the Quarterly Growth, Constant Growth and Multi-Stage DCF
analyses. Setting aside the low results, the Quarterly Growth DCF produces a range of
results from 9.26 percent to 10.76 percent and the Constant Growth DCF model produces
a range of results from 9.10 percent to 10.55 percent. The Multi-Stage DCF analysis
produces a range of results from 9.5658 percent to 10.36 percent.

21

DCF results presented in Table 6 are unadjusted (*i.e.*, prior to any adjustment for flotation costs).

	Mean Low	Mean	Mean High
	Quarterly Gro	wth DCF Results	
30-Day Average	8.05%	9.29%	10.76%
90-Day Average	8.05%	9.28%	10.76%
180-Day Average	8.03%	9.26%	10.74%
	Constant Grow	wth DCF Results	
30-Day Average	7.93%	9.12%	10.55%
90-Day Average	7.92%	9.12%	10.55%
180-Day Average	7.90%	9.10%	10.53%
Multi-Stage DCF Results			
30-Day Average	9.58%	9.92%	10.36%
90-Day Average	9.58%	9.91%	10.36%
180-Day Average	9.56%	9.89%	10.34%

Table 7: Summary of DCF Model Results²²

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3 **Q**. Did you undertake any additional analyses to support your recommendation?

4 A. Yes. As noted earlier, I also applied the CAPM and Risk Premium approaches.

5 **CAPM** Analysis

6 Q. Please briefly describe the general form of the CAPM analysis.

7 A. The CAPM analysis is a risk premium method that estimates the Cost of Equity for a 8 given security as a function of a risk-free return plus a risk premium (to compensate 9 investors for the non-diversifiable or "systematic" risk of that security). As shown in 10 Equation [5], the CAPM is defined by four components, each of which theoretically must 11 be a forward-looking estimate:

DCF results presented in Table 7 are unadjusted (*i.e.*, prior to any adjustment for flotation costs).

1	$k = r_f + \beta (r_m - r_f)$ Equation [5]
2	where:
3	k = the required market ROE for a security;
4	β = the Beta coefficient of that security;
5	r_f = the risk-free rate of return; and
6	r_m = the required return on the market as a whole.
7	In Equation [5], the term $(r_m - r_f)$ represents the Market Risk Premium. ²³
8	According to the theory underlying the CAPM, since unsystematic risk can be diversified
9	away by adding securities to their investment portfolio, investors should be concerned
10	only with systematic or non-diversifiable risk. Non-diversifiable risk is measured by the

11 Beta coefficient, which is defined as:

$$\beta_j = \frac{\sigma_j}{\sigma_m} x \rho_{j,m}$$
 Equation [6]

Where σ_i is the standard deviation of returns for company "j," σ_m is the standard 13 deviation of returns for the broad market (as measured, for example, by the S&P 500 14 Index), and $\rho_{j,m}$ is the correlation of returns in between company j and the broad market. 15 16 The Beta coefficient therefore represents both relative volatility (i.e., the standard 17 deviation) of returns, and the correlation in returns between the subject company and the 18 overall market.

Intuitively, higher Beta coefficients indicate that the subject company's returns 19 20 have been relatively volatile, and have moved in tandem with the overall market. 21 Consequently, if a company has a Beta coefficient of 1.00, it is as risky as the market and

23

12

The Market Risk Premium is defined as the incremental return of the market over the risk-free rate.

1 does not provide any diversification benefit.

2 Q. Has the CAPM been affected by recent economic conditions?

Yes, for example, the risk-free rate, " r_f ", in the CAPM formula is represented by the 3 A. 4 yield on long-term U.S. Treasury securities. During periods of increased equity market volatility investors tend to allocate their capital to low-risk securities such as Treasury 5 6 bonds, thereby bidding down the yield on those securities. In addition, since the 2008 7 Lehman Brothers bankruptcy filing, the Federal Reserve has focused on maintaining low 8 long-term interest rates. However, the capital markets continue to change, by some 9 measures quite significantly; as discussed later in my Direct Testimony, the 30-year 10 Treasury yield increased by 113 basis points from May through December 2013.

11 Q. With those observations in mind, what assumptions did you include in your CAPM
12 analysis?

A. Since utility assets represent long-term investments, I used two different measures of the risk-free rate: (1) the current 30-day average yield on 30-year Treasury bonds (*i.e.*, 3.87 percent); and (2) the projected 30-year Treasury yield (*i.e.*, 4.15 percent).

16 Q. Why have you relied upon the 30-year Treasury yield for your CAPM analysis?

A. In determining the security most relevant to the application of the CAPM, it is important
to select the term (or maturity) that best matches the life of the underlying investment.
Natural gas utilities typically are long-duration investments and as such, the 30-year
Treasury yield is more suitable for the purpose of calculating the Cost of Equity.

21 Q. What Market Risk Premium did you use in your CAPM analysis?

A. For the reasons discussed above, I did not use a historical average; rather, I developed

23 forward-looking (*ex-ante*) estimates of the Market Risk Premium.

1 Q. Please describe your *ex-ante* approach to estimating the Market Risk Premium.

2 A. The approach is based on the market required return, less the current 30-year Treasury 3 yield. To estimate the market required return, I calculated the market capitalization 4 weighted average ROE based on the Constant Growth DCF model. To do so, I relied on 5 data from two sources: (1) Bloomberg; and (2) Value Line. With respect to Bloombergderived growth estimates, I calculated the expected dividend yield (using the same one-6 7 half growth rate assumption described earlier), and combined that amount with the 8 projected earnings growth rate to arrive at the market capitalization weighted average 9 DCF result. I performed that calculation for each of the S&P 500 companies for which 10 Bloomberg provided consensus growth rates. I then subtracted the current 30-year 11 Treasury yield from that amount to arrive at the market DCF-derived *ex-ante* market risk 12 premium estimate. In the case of Value Line, I performed the same calculation, again 13 using all companies for which five-year earnings growth rates were available. The results 14 of those calculations are provided in Schedule RBH-5.

Q. How did you apply your expected Market Risk Premium and risk-free rate estimates?

A. I relied on the *ex-ante* Market Risk Premia discussed above, together with the current and
 near-term projected 30-year Treasury yields as inputs to my CAPM analyses.

19 Q. What Beta coefficient did you use in your CAPM model?

A. With respect to the Beta coefficient, I considered two methods of calculation. My first
 approach simply employs the average reported Beta coefficient from Bloomberg and
 Value Line for each of the proxy companies. While both of those services adjust their
 calculated (or "raw") Beta coefficients to reflect the tendency of the Beta coefficient to

regress to the market mean of 1.00, Value Line calculates the Beta coefficient over a fiveyear period, while Bloomberg's calculation is based on two years of data. I also calculated Beta coefficients over a more recent time period to provide a more current view as to investors' perspectives with respect to the systematic risk represented by the proxy companies.

Q. Please describe how you calculated the mean adjusted Beta coefficient for your proxy group.

8 A. As shown in Equation [6], the Beta coefficient is calculated as the ratio of the standard 9 deviation of returns for the subject company and the market, respectively, multiplied by 10 the correlation of returns between the two. I therefore calculated the "raw" Beta 11 coefficient for each member of the proxy group, based on Equation [6], and adjusted 12 those raw Beta coefficients to address the tendency to regress toward the market Beta 13 coefficient of unity. For the purpose of that calculation, I used weekly returns, and 14 calculated the standard deviation and correlations over the eighteen month period ended 15 December 31, 2013. Averaging those results produces an adjusted Beta coefficient of 16 0.851.

17 Q. How and why did you adjust the raw Beta Coefficient?

A. I adjusted my raw Beta coefficient consistent with the methodology used by Bloomberg,
 which multiplies the raw Beta coefficient by 0.67, and adds 0.33 to that product. The
 purpose of that adjustment is to reflect the results of substantial academic research
 indicating that, over time, raw Beta coefficients tend to regress to the market mean of

1 1.00.²⁴

2	Q.	Please explain why you relied on a eighteen-month estimate of the proxy group
3		mean adjusted Beta Coefficient.

- A. As discussed above, the Market Risk Premium tends to change over time. In my view,
 the use of Beta Coefficients calculated over shorter periods is consistent with the notion
 that market conditions, and the risk premium required by investors in response to those
 conditions, also may change over shorter periods. In any case, by relying on both Value
 Line and Bloomberg, my CAPM analysis reflects Beta Coefficients calculated over
 longer periods, as well.²⁵
- 10 Q. What are the results of your CAPM analysis?
- 11 A. As shown in Table 8, the CAPM analyses suggest an ROE range of 10.21 percent to
- 12 12.78 percent (*see* also Schedule RBH-7).

The regression tendency of Beta coefficients to converge to 1.0 over time is well known and widely discussed in financial literature. (*See, e.g., Blume, Marshall E., On the Assessment of Risk, The Journal of Finance, Vol. 26, No. 1, March 1971, at 1-10).*

²⁵ See Schedule RBH-6

	Bloomberg Derived Market Risk Premium	Value Line Derived Market Risk Premium	
Average Calculated I	Beta Coefficient		
Current 30-Year Treasury (3.87%)	12.50%	11.40%	
Near Term Projected 30-Year Treasury (4.15%)	12.78%	11.68%	
Average Bloomberg Beta Coefficient			
Current 30-Year Treasury (3.87%)	11.96%	10.93%	
Near Term Projected 30-Year Treasury (4.15%)	12.24%	11.21%	
Average Value Line Beta Coefficient			
Current 30-Year Treasury (3.87%)	11.14%	10.21%	
Near Term Projected 30-Year Treasury (4.15%)	11.42%	10.49%	

Table 8: Summary of CAPM Results

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3 Bond Yield Plus Risk Premium Approach

4 Q. Please generally describe the Bond Yield Plus Risk Premium approach.

5 A. This approach is based on the basic financial tenet that, since equity investors bear the 6 residual risk associated with ownership and therefore require a premium over the return 7 they would have earned as a bondholder. That is, since returns to equity holders are more 8 risky than returns to bondholders, equity investors must be compensated for bearing that 9 risk. Risk premium approaches, therefore, estimate the Cost of Equity as the sum of the 10 equity risk premium and the yield on a particular class of bonds. As noted in my 11 discussion of the CAPM, since the equity risk premium is not directly observable, it typically is estimated using a variety of approaches, some of which incorporate ex-ante, 12 13 or forward-looking estimates of the Cost of Equity, and others that consider historical, or 14 ex-post, estimates. An alternative approach is to use actual authorized returns for natural

1 gas utilities to estimate the Equity Risk Premium.

2 Q. Please explain how you performed your Bond Yield Plus Risk Premium analysis.

3 A. As suggested above, I first defined the Risk Premium as the difference between the 4 authorized ROE and the then-prevailing level of long-term (i.e., 30-year) Treasury yield. 5 I then gathered data for over 985 natural gas rate proceedings between January, 1980 and December 31, 2013. In addition to the authorized ROE, I also calculated the average 6 7 period between the filing of the case and the date of the final order (the "lag period"). In 8 order to reflect the prevailing level of interest rates during the pendency of the 9 proceedings, I calculated the average 30-year Treasury yield over the average lag period 10 (approximately 187 days).

Because the data cover a number of economic cycles, the analysis also may be used to assess the stability of the Equity Risk Premium. Prior research, for example, has shown that the Equity Risk Premium is inversely related to the level of interest rates. That analysis is particularly relevant given the relatively low, but increasing level of current Treasury yields.

16 Q. How did you model the relationship between interest rates and the Equity Risk 17 Premium?

A. The basic method used was regression analysis, in which the observed Equity Risk Premium is the dependent variable, and the average 30-year Treasury yield is the independent variable. Relative to the long-term historical average, the analytical period includes interest rates and authorized ROEs that are quite high during one period (*i.e.*, the 1980s) and that are quite low during another (*i.e.*, the post-Lehman bankruptcy period). To account for that variability, I used the semi-log regression, in which the Equity Risk Premium is expressed as a function of the natural log of the 30-year Treasury yield:

$$RP = \alpha + \beta(LN(T_{30}))$$
 Equation [7]

As shown on Chart 1 (below), the semi-log form is useful when measuring an absolute change in the dependent variable (in this case, the Risk Premium) relative to a proportional change in the independent variable (the 30-year Treasury yield).

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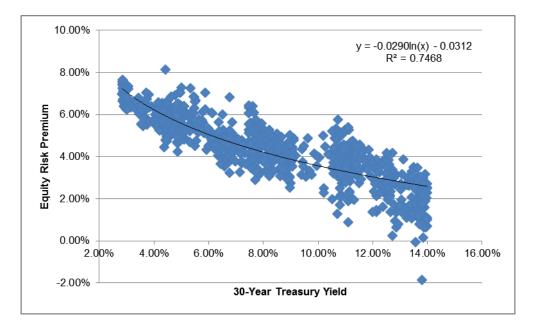
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Chart 1: Equity Risk Premium



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As Chart 1 illustrates, over time there has been a statistically significant, negative relationship between the 30-year Treasury yield and the Equity Risk Premium. Consequently, simply applying the long-term average Equity Risk Premium of 4.44 percent would significantly understate the Cost of Equity and produce results well below any reasonable estimate. Based on the regression coefficients in Chart 1, however, the implied ROE is between 10.19% percent and 10.69% percent (*see* Schedule RBH-8 and Table 9, below).

Table 9: Bond Yield Plus Risk Premium Results

	Return on
Treasury Yield	Equity
Current 30-Year Treasury (3.87%)	10.19%
Near Term Projected 30-Year Treasury (4.15%)	10.27%
Long Term Projected 30-Year Treasury (5.25%)	10.69%

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3 VI. <u>BUSINESS RISKS AND OTHER CONSIDERATIONS</u>

4 Q. What additional information did you consider in assessing the analytical results 5 noted above?

A. Because the analytical methods discussed above provide a range of estimates, there are
several additional factors that should be taken into consideration when establishing a
reasonable range for the Company's Cost of Equity. Those factors include: (1) the
relatively small size of the Company; and (2) flotation costs.

10 Small Size Premium

11 Q. Please explain the risk associated with small size.

A. Both the financial and academic communities have long accepted the proposition that the
Cost of Equity for small firms is subject to a "size effect."²⁶ While empirical evidence of
the size effect often is based on studies of industries beyond regulated utilities, utility
analysts also have noted the risks associated with small market capitalizations.
Specifically, Ibbotson Associates noted: "For small utilities, investors face additional
obstacles, such as a smaller customer base, limited financial resources, and a lack of

See Mario Levis, The record on small companies: A review of the evidence, Journal of Asset Management, March 2002, at 368-397, for a review of literature relating to the size effect.

2

diversification across customers, energy sources, and geography. These obstacles imply a higher investor return."²⁷

3 Q. How does Liberty Utilities compare in size to the proxy companies?

4 A. Liberty Utilities is significantly smaller than the proxy group, both in terms of number of 5 customers and annual revenues. Schedule RBH-9 estimates the implied market capitalization for Liberty Utilities (i.e., the implied market capitalization if Liberty 6 7 Utilities were a stand-alone, publicly traded entity). That is, because Liberty Utilities is 8 not a separately traded entity, an estimated stand-alone market capitalization for Liberty 9 Utilities must be calculated. The implied market capitalization of Liberty Utilities is 10 calculated by applying the median market-to-book ratio for the proxy group of 1.60 to the Company's implied total common equity of approximately \$51 million.²⁸ The implied 11 12 market capitalization based on that calculation is \$82 million, which is only 4.01 percent 13 of the proxy group median of \$2.04 billion.

14 Q. Have you also considered Liberty Utilities' comparatively small size in your 15 estimated Cost of Equity?

A. Yes. While I have quantified the small size effect, rather than proposing a specific
premium, I have considered the small size of Liberty Utilities in my assessment of
business risks in order to determine where, within a reasonable range of returns, Liberty
Utilities' required ROE appropriately falls. In that regard, Liberty Utilities'
comparatively small size further supports my conclusion that an ROE at the upper end of
my recommended range is reasonable.

²⁷ Michael Annin, *Equity and the Small-Stock Effect*, <u>Public Utilities Fortnightly</u>, October 15, 1995.

²⁸ Equity value of Liberty Utilities is estimated from proposed rate base and its capital structure.

Q. How did you estimate the size premium for Liberty Utilities?

A. In its *Risk Premia Over Time Report: 2013*, Morningstar Inc. ("Morningstar") presents its
calculation of the size premium for deciles of market capitalizations relative to the S&P
500 Index. An additional estimate of the size premium associated with Liberty Utilities,
therefore, is the difference in the Morningstar size risk premiums for the proxy group
median market capitalization relative to the implied market capitalization for Liberty
Utilities.

8 As shown on Schedule RBH-9, based on recent market data, the median market capitalization of the proxy group was approximately \$2.04 billion, which corresponds to 9 10 the fifth decile of Morningstar's market capitalization data. Based on the Morningstar 11 analysis, that decile has a size premium of 1.70 percent (or 170 basis points). The 12 implied market capitalization for Liberty Utilities is approximately \$82 million, which 13 falls within the tenth decile and corresponds to a size premium of 6.03 percent (or 603 14 basis points). The difference between those size premiums is 433 basis points (4.33 15 percent).

16

17 Flotation Costs

18 Q. What are flotation costs?

A. Flotation costs are the costs associated with the sale of new issues of common stock.
 These include out-of-pocket expenditures for preparation, filing, underwriting, and other
 costs of issuance.

Q. Are flotation costs part of the utility's invested costs or part of the utility's expenses?

A. Flotation costs are part of capital costs, which are properly reflected on the balance sheet
under "paid in capital" rather than current expenses on the income statement. Flotation
costs are incurred over time, just as investments in rate base or debt issuance costs. As a
result, the great majority of flotation costs are incurred prior to the test year, but remain
part of the cost structure during the test year and beyond.

8 Q. How did you calculate the flotation cost recovery adjustment?

- 9 A. I modified the DCF calculation to provide a dividend yield that would reimburse
 investors for issuance costs. My flotation cost adjustment recognizes the costs of issuing
 equity that were incurred by Liberty Utilities' parent company Algonquin Power and
 Utilities and the proxy companies in their most recent two issuances. As shown in
 Schedule RBH-10, an adjustment of 0.15 percent (*i.e.*, 15 basis points) reasonably
 represents flotation costs for the Company.
- Q. Are you proposing to adjust your recommended ROE by 15 basis points to reflect
 the effect of flotation costs on Liberty Utilities' ROE?
- A. No. Rather, I have considered the effect of flotation costs, in addition to the Company's
 other business risks, in determining where the Company's ROE falls within the range of
 results.
- 20

VII. <u>CAPITAL MARKET ENVIRONMENT</u>

Q. Do economic conditions influence the required cost of capital and required return on common equity?

4 A. Yes. As discussed in Section V, the models used to estimate the Cost of Equity are meant to reflect, and therefore are influenced by, current and expected capital market 5 conditions. The required cost of capital, including the ROE, is a function of prevailing 6 7 and expected economic and capital market conditions. As to the analyses used to 8 estimate the Cost of Equity, it is important to assess the reasonableness of any financial 9 model's results in the context of observable market data. To the extent that certain ROE estimates are incompatible with such data or inconsistent with basic financial principles, 10 11 it is appropriate to consider whether alternative estimation techniques are likely to 12 provide more meaningful and reliable results.

Q. Please summarize the effect of recent Federal Reserve policies on interest rates and the cost of capital.

A. Beginning 2008, the Federal Reserve proceeded on a steady path of initiatives intended to lower long-term Treasury yields.²⁹ The Federal Reserve policy actions "were designed to put downward pressure on longer-term interest rates by having the Federal Reserve take onto its balance sheet some of the duration and prepayment risks that would otherwise have been borne by private investors."³⁰ Under that policy, "Securities held outright" on the Federal Reserve's balance sheet increased from approximately \$489 billion at the

²⁹ *See* Federal Reserve Press Release dated June 19, 2013.

³⁰ Federal Reserve Bank of New York, *Domestic Open Market Operations During 2012*, April 2013, at 29.

beginning of October 2008 to \$3.76 trillion by the end of December 2013.³¹ To put that 1 2 increase in context, the securities held by the Federal Reserve represented approximately 3 3.29 percent of Gross Domestic Product ("GDP") at the end of September 2008, and had risen to approximately 22.26 percent of GDP in 2013.³² 4

5

Is the Federal Reserve expected to maintain these policies? **Q**.

6 The extent to which the Federal Reserve will maintain its policy action depends on its A. view of "the likely efficacy and costs" of its Quantitative Easing program.³³ Although 7 the Federal Reserve began "tapering" its asset purchases in December 2013, the future 8 pace of such reductions is not on a "preset course".³⁴ Nonetheless, the steady increase in 9 interest rates since May 2013 suggests that investors have begun to focus on timing and 10 11 extent of further reductions in monthly asset purchases by the Federal Reserve. As such, 12 significant uncertainties remain in the market today and going forward. The uncertainty 13 surrounding the timing of the Federal Reserve's future policy decisions, including the 14 unwinding of stimulus programs, represents a risk to investors that, in my view, should 15 be reflected in the Company's authorized ROE.

16 Q. Have capital market conditions changed over the past year?

18

17 A. Yes. There is little question that both current and expected long-term interest rates have increased over the past year, in particular over the latter half of 2013. As Chart 2 19 indicates, the 30-year Treasury yield rose by 113 basis points from May through

³¹ Source: Federal Reserve Schedule H.4.1. "Securities held outright" include U.S. Treasury securities, Federal agency debt securities, and mortgage-backed securities.

³² Sources: Federal Reserve Schedule H.4.1; Bureau of Economic Analysis, 2013 data as of the third calendar quarter.

³³ Federal Reserve Bank Press Release, July 31, 2013.

³⁴ Minutes of the Federal Open Market Committee December 17–18, 2013, at 10.

December, 2013.

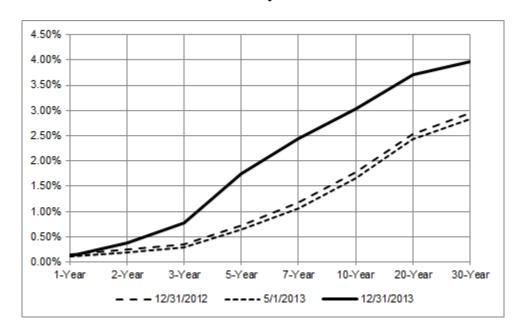


Chart 2: Treasury Yield Curve³⁵

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4 Based on the slope of the yield curve for each trading day over the year ended 5 December 31, 2013, I calculated the forward 27-year Treasury yield expected three years hence. I performed that calculation based on the "expectations" theory, which states that 6 7 (for example) the current 30-year Treasury yield equals the combination of the current 8 three-year Treasury yield, and the 27-year Treasury yield expected in three years. That 9 is, an investor would be indifferent to (1) holding a 30-year Treasury to maturity, or (2) 10 holding a three-year Treasury to maturity, then a Treasury bond with 27-years remaining to maturity (see, Chart 3, below). 11

³⁵

Source: Federal Reserve Board Schedule H.15.



Chart 3: Forward 27-Year Treasury Yields³⁶

2

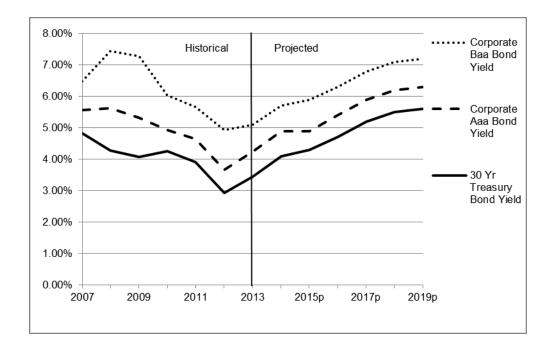
1

3 Q. How does the recent rise in interest rates compare to analyst projections?

A. The recent rise in interest rates is consistent with analyst projections, which indicate
further increase in both the near and long-term. As Chart 4 (below) demonstrates,
interest rates are expected to rise from the historically low levels observed in 2012 and
mid-2013.

³⁶

Source: Federal Reserve Board Schedule H.15.





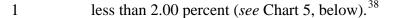
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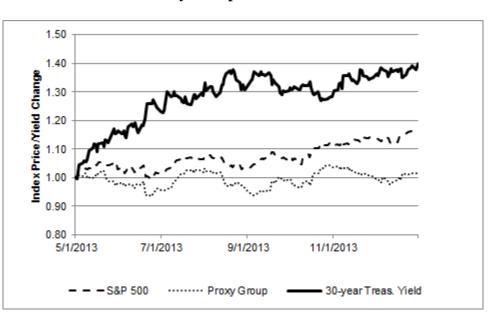
3

4 Q. Have you considered any additional data to assess the effect of changing market 5 conditions on Cost of Equity analyses?

A. Yes, I have. As discussed in Section V, it is important to assess model results in the
context of prevailing market conditions. As noted above, for example, during the second
half of 2013 interest rates significantly increased. As would be expected, as interest rates
increased, the proxy companies' stock underperformed the broader market. In fact, while
the 30-year Treasury yield increased by 113 basis points from May through December
2013, the overall market (as measured by the S&P 500) increased by approximately
16.79 percent, while the market value of the companies in my proxy group increased by

³⁷ Sources: Federal Reserve Board Schedule H.15.; <u>Blue Chip Financial Forecasts</u>, Vol. 32, No. 12, December 1, 2013, at 14; Blue <u>Chip Financial Forecasts</u>, Vol. 33, No. 1, January 1, 2014, at 2.







2

It also is important to recognize that the policy of reducing asset purchases under the Federal Reserve's Quantitative Easing program is related to expectations of improved conditions and sustained growth in the overall economy. ⁴⁰ From that perspective, we would expect to see higher growth estimates for companies in the overall economy, including the utility sector. Since companies such as Liberty Utilities continue to invest in their rate base, and given that utilities provide a vital service to other industry sectors, it also would not be surprising to see an increase in expected utility growth rates.

³⁸ I note the Florida Public Service Commission recently addressed the risk of rising interest rates in its Order in Tampa Electric Company's rate case which approved a mechanism wherein the authorized ROE will increase by 25 basis points if the six-month average of the 30-year Treasury yield is at least 75 basis points above the level of the 30-year Treasury yield at the time of the order. See, Order No. PSC-13-044.-FOF-EI (Docket No. 130040-EI, Tampa Electric Company), at Exhibit A, page 4.

³⁹ Source: SNL Financial. The proxy group relative performance is calculated as an index.

⁴⁰ See, Minutes of the Federal Open Market Committee December 17–18, 2013, at 10.

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1 Q. What conclusions do you draw from your analyses of capital market conditions?

2 A. From an analytical perspective, it is important that the inputs and assumptions used to 3 arrive at an ROE recommendation, including assessments of capital market conditions, 4 are consistent with the recommendation itself. While I appreciate that all analyses require an element of judgment, the application of that judgment must be made in the 5 context of the quantitative and qualitative information available to the analyst and the 6 7 capital market environment in which the analyses were undertaken. Because the 8 application of financial models and interpretation of their results often is the subject of 9 differences among analysts in regulatory proceedings, I believe that it is important to 10 review and consider a variety of data points; doing so enables us to put in context both 11 quantitative analyses and the associated recommendations.

12 VIII.

CAPITAL STRUCTURE

13 **Q**. What is the Company's capital structure?

14 A. The Company's capital structure consists of 58.34 percent common equity and 41.66 15 percent long-term debt. In practice, the capital structure should enable the Company to 16 maintain or enhance its financial integrity, thereby enabling access to capital at 17 competitive rates under a variety of economic and financial market conditions. As 18 discussed below, it therefore is important to consider the capital structure in light of 19 industry practice and investor requirements.

20 How does the capital structure affect the Cost of Equity? **Q**.

21 The capital structure relates to financial risk, which is a function of the percentage of debt A. 22 relative to equity (that relationship is often referred to as "financial leverage"). As the

percentage of debt in the capital structure increases, so do the fixed obligations for the repayment of that debt and, therefore, the risk that cash flows may not be sufficient to meet those obligations on a timely basis. Consequently, as the degree of financial leverage increases, the risk of financial distress (*i.e.*, financial risk) also increases. Since the capital structure can affect the subject company's overall level of risk, it is an important consideration in establishing a just and reasonable rate of return.

Q. Please now describe your analysis of the Company's capital structure relative to industry practice.

A. As a measure of industry practice, I calculated the average capital structure for each of
the proxy companies over the last eight fiscal quarters. As shown in Schedule RBH-11,
the proxy group average capital structure over that period includes 56.40 percent equity
and 43.60 percent long-term debt; the average equity ratios (on a company-specific basis)
range from 48.69 percent to 68.42 percent. Based on that review, it is apparent that the
Company's capital structure is consistent with those in place at the proxy companies.

Q. What is the basis for using average capital components rather than a point-in-time measurement?

A. Measuring the capital components at a particular point in time can skew the capital
structure by the specific circumstances of a particular period. Therefore, it is more
appropriate to normalize the relative relationship between the capital components over a
period of time.

Q. What is your conclusion regarding an appropriate capital structure for Liberty Utilities?

A. Considering the proxy company average equity ratio of 56.40 percent, I believe that

Liberty Utilities' 58.34 percent common equity ratio is appropriate.

2 IX. COST OF DEBT

3 Q. What is the Company's cost of debt?

4 A. As shown in COS - 9, the Company's cost of debt of is 4.78 percent.

5 Q. Have you assessed the Company's cost of debt relative to other natural gas utilities?

6 A. Yes, I calculated the embedded cost of debt for all authorized returns from January 1,

7 2013 through December 31, 2013. The mean embedded cost of debt over that period was

5.06 percent; the median was 5.13 percent. Based on that review, I believe the
Company's 4.78 percent cost of debt is reasonable and appropriate.

10 X. <u>CONCLUSIONS AND RECOMMENDATION</u>

11 Q. What is your conclusion regarding the Company's Cost of Equity?

A. As discussed earlier in my Direct Testimony, I have performed several analyses to estimate the Company's Cost of Equity, and have considered several market-wide and Company-specific issues. In light of those considerations, I believe that a rate of return on common equity in the range of 10.00 percent to 10.50 percent represents the range of equity investors' required rate of return for investment in natural gas utilities similar to Liberty Utilities in today's capital markets. Within that range, it is my view that an ROE of 10.50 percent is reasonable and appropriate.

As discussed earlier in my testimony, my recommendation reflects analytical results based on a proxy group of natural gas utilities. My recommendation also takes into consideration the Company's risk profile, including its relatively small size and, as noted in the Direct Testimony of Mr. Christopher D. Krygier, its declining residential

1	customer base. My recommendation also considers the direct costs associated with
2	equity issuances, although I do not make a specific adjustment for those costs.
3	I also conclude that the Company's capital structure, which consists of 58.34
4	percent common equity and 41.66 percent debt, is consistent with industry practice and,
5	therefore, is reasonable and appropriate. Lastly, I conclude that the Company's 4.78
6	percent cost of debt, which is consistent with (albeit lower than) the cost of debt reflected
7	in the overall rate of return for gas utilities during calendar year 2013, also is reasonable
8	and appropriate.

Quarterly DCF	Low	Mean	High
30-Day Average	8.05%	9.29%	10.76%
90-Day Average	8.05%	9.28%	10.76%
180-Day Average	8.03%	9.26%	10.74%
Constant Growth DCF	Low	Mean	High
30-Day Average	7.93%	9.12%	10.55%
90-Day Average	7.92%	9.12%	10.55%
180-Day Average	7.90%	9.10%	10.53%
Multi-Stage DCF	Low	Mean	High
30-Day Average	9.58%	9.92%	10.36%
90-Day Average	9.58%	9.91%	10.36%
180-Day Average	9.56%	9.89%	10.34%
CAPM Results	CAPM Results		
Av	erage Calculated Beta	a Coefficient	
Current 30-Year Treasury (3.87%)		12.50%	11.40%
Near Term Projected 30-Year Treasu	ry (4.15%)	12.78%	11.68%
Av	erage Bloomberg Beta	a Coefficient	
Current 30-Year Treasury (3.87%)		11.96%	10.93%
Near Term Projected 30-Year Treasu	ry (4.15%)	12.24%	11.21%
Av	erage Value Line Beta	a Coefficient	
Current 30-Year Treasury (3.87%)		11.14%	10.21%
Near Term Projected 30-Year Treasu	ry (4.15%)	11.42%	10.49%
	Low	Mid	High
	Low		
Bond Yield Plus Risk Premium	10.19%	10.27%	10.69%
Bond Yield Plus Risk Premium Flotation Cost			10.69%

Table 10: Summary of Analytical Results

1

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- 1 Q. Does this conclude your Direct Testimony?
- 2 A. Yes, it does.

Robert B. Hevert, CFA Managing Partner Sussex Economic Advisors, LLC

Mr. Hevert is an economic and financial consultant with broad experience in regulated industries. He has an extensive background in the areas of corporate finance, corporate strategic planning, energy market assessment, mergers, and acquisitions, asset-based transactions, feasibility and due diligence analyses, and providing expert testimony in litigated proceedings. Mr. Hevert has significant management experience with both operating and professional services companies.

REPRESENTATIVE PROJECT EXPERIENCE

Litigation Support and Expert Testimony

Provided expert testimony and support of litigation in various regulatory proceedings on a variety of energy and economic issues including: cost of capital for ratemaking purposes; the proposed transfer of power purchase agreements; procurement of residual service electric supply; the legal separation of generation assets; merger-related synergies; assessment of economic damages; and specific financing transactions. Services provided include collaborating with counsel, business and technical staff to develop litigation strategies, preparing and reviewing discovery and briefing materials, preparing presentation materials and participating in technical sessions with regulators and intervenors.

Financial and Economic Advisory Services

Retained by numerous leading energy companies and financial institutions throughout North America to provide services relating to the strategic evaluation, acquisition, sale or development of a variety of regulated and non-regulated enterprises. Specific services have included: developing strategic and financial analyses and managing multi-faceted due diligence reviews of proposed corporate M&A counter-parties; developing, screening and recommending potential M&A transactions and facilitating discussions between senior utility executives regarding transaction strategy and structure; performing valuation analyses and financial due diligence reviews of electric generation projects, retail marketing companies, and wholesale trading entities in support of significant M&A transactions.

Specific divestiture-related services have included advising both buy and sell-side clients in transactions for physical and contractual electric generation resources. Sell-side services have included: development and implementation of key aspects of asset divestiture programs such as marketing, offering memorandum development, development of transaction terms and conditions, bid process management, bid evaluation, negations, and regulatory approval process. Buy-side services have included comprehensive asset screening, selection, valuation and due diligence reviews. Both buy and sell-side services have included the use of sophisticated asset valuation techniques, and the development and delivery of fairness opinions.

Specific corporate finance experience while a Vice President with Bay State Gas included: negotiation, placement and closing of both private and public long-term debt, preferred and common equity; structured and project financing; corporate cash management; financial analysis, planning and forecasting; and various aspects of investor relations.

Regulatory Analysis and Ratemaking

On behalf of electric, natural gas and combination utilities throughout North America, provided services relating to energy industry restructuring including merchant function exit, residual energy supply obligations, and stranded cost assessment and recovery. Specific services provided include: performing strategic review and development of merchant function exit strategies including analysis of provider of last resort obligations in both electric and gas markets; and developing value optimizing strategies for physical generation assets.

Energy Market Assessment

Retained by numerous leading energy companies and financial institutions nationwide to manage or provide assessments of regional energy markets throughout the U.S. and Canada. Such assessments have included development of electric and natural gas price forecasts, analysis of generation project entry and exit scenarios, assessment of natural gas and electric transmission infrastructure, market structure and regulatory situation analysis, and assessment of competitive position. Market assessment engagements typically have been used as integral elements of business unit or asset-specific strategic plans or valuation analyses.

Resource Procurement, Contracting and Analysis

Assisted various clients in evaluating alternatives for acquiring fuel and power supplies, including the development and negotiation of energy contracts and tolling agreements. Assignments also have included developing generation resource optimization strategies. Provided advice and analyses of transition service power supply contracts in the context of both physical and contractual generation resource divestiture transactions.

Business Strategy and Operations

Retained by numerous leading North American energy companies and financial institutions nationwide to provide services relating to the development of strategic plans and planning processes for both regulated and non-regulated enterprises. Specific services provided include: developing and implementing electric generation strategies and business process redesign initiatives; developing market entry strategies for retail and wholesale businesses including assessment of asset-based marketing and trading strategies; and facilitating executive level strategic planning retreats. As Vice President, of Bay State was responsible for the company's strategic planning and business development processes, played an integral role in developing the company's non-regulated marketing affiliate, EnergyUSA, and managed the company's non-regulated investments, partnerships and strategic alliances.

PROFESSIONAL HISTORY

Sussex Economic Advisors, LLC (2012 – Present) Managing Partner

Concentric Energy Advisors, Inc. (2002 – 2012) President

Navigant Consulting, Inc. (1997 – 2001) Managing Director (2000 – 2001) Director (1998 – 2000) Vice President, REED Consulting Group (1997 – 1998)

Bay State Gas Company (now Columbia Gas Company of Massachusetts) (1987 – 1997) Vice President and Assistant Treasurer

Boston College (1986 – 1987) Financial Analyst

General Telephone Company of the South (1984 – 1986) Revenue Requirements Analyst

EDUCATION

M.B.A., University of Massachusetts at Amherst, 1984 B.S., University of Delaware, 1982

DESIGNATIONS AND PROFESSIONAL AFFILIATIONS

Chartered Financial Analyst, 1991 Association for Investment Management and Research Boston Security Analyst Society

PUBLICATIONS/PRESENTATIONS

Has made numerous presentations throughout the United States and Canada on several topics, including:

- Generation Asset Valuation and the Use of Real Options
- Retail and Wholesale Market Entry Strategies
- The Use Strategic Alliances in Restructured Energy Markets
- Gas Supply and Pipeline Infrastructure in the Northeast Energy Markets
- Nuclear Asset Valuation and the Divestiture Process

AVAILABLE UPON REQUEST

Extensive client and project listings, and specific references.

SPONSOR	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
Arizona Corporation Commission				
Southwest Gas Corporation	11/10	Southwest Gas Corporation	Docket No. G-01551A-10- 0458	Return on Equity
Arkansas Public Service Commission				
CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Arkansas Gas	01/07	CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Arkansas Gas	Docket No. 06-161-U	Return on Equity
California Public Utilities Commission	1			
Southwest Gas Corporation	12/12	Southwest Gas Corporation	Docket No. A-12-12-024	Return on Equity
Colorado Public Utilities Commission				
Xcel Energy, Inc.	12/12	Public Service Company of Colorado	Docket No. 12AL-1268G	Return on Equity (gas)
Xcel Energy, Inc.	11/11	Public Service Company of Colorado	Docket No. 11AL-947E	Return on Equity (electric)
Xcel Energy, Inc.	12/10	Public Service Company of Colorado	Docket No. 10AL-963G	Return on Equity (electric)
Atmos Energy Corporation	07/09	Atmos Energy Colorado-Kansas Division	Docket No. 09AL-507G	Return on Equity (gas)
Xcel Energy, Inc.	12/06	Public Service Company of Colorado	Docket No. 06S-656G	Return on Equity (gas)
Xcel Energy, Inc.	04/06	Public Service Company of Colorado	Docket No. 06S-234EG	Return on Equity (electric)
Xcel Energy, Inc.	08/05	Public Service Company of Colorado	Docket No. 05S-369ST	Return on Equity (steam)
Xcel Energy, Inc.	05/05	Public Service Company of Colorado	Docket No. 05S-246G	Return on Equity (gas)
Connecticut Public Utilities Regulator	y Authority			
Southern Connecticut Gas Company	09/08	Southern Connecticut Gas Company	Docket No. 08-08-17	Return on Equity
Southern Connecticut Gas Company	12/07	Southern Connecticut Gas Company	Docket No. 05-03-17PH02	Return on Equity
Connecticut Natural Gas Corporation	12/07	Connecticut Natural Gas Corporation	Docket No. 06-03-04PH02	Return on Equity
Delaware Public Service Commission				
Delmarva Power & Light Company	03/13	Delmarva Power & Light Company	Case No. 13-115	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
Delmarva Power & Light Company	12/12	Delmarva Power & Light Company	Case No. 12-546	Return on Equity
Delmarva Power & Light Company	03/12	Delmarva Power & Light Company	Case No. 11-528	Return on Equity
District of Columbia Public Service C	ommission			
Potomac Electric Power Company	03/13	Potomac Electric Power Company	Formal Case No. FC1103- 2013-E	Return on Equity
Potomac Electric Power Company	07/11	Potomac Electric Power Company	Formal Case No. FC1087	Return on Equity
Federal Energy Regulatory Commiss	ion			
Public Service Company of New Mexico	12/12	Public Service Company of New Mexico	Docket No. ER13-685-000	Return on Equity
Public Service Company of New Mexico	10/10	Public Service Company of New Mexico	Docket No. ER11-1915-000	Return on Equity
Portland Natural Gas Transmission System	05/10	Portland Natural Gas Transmission System	Docket No. RP10-729-000	Return on Equity
Florida Gas Transmission Company, LLC	10/09	Florida Gas Transmission Company, LLC	Docket No. RP10-21-000	Return on Equity
Maritimes and Northeast Pipeline, LLC	07/09	Maritimes and Northeast Pipeline, LLC	Docket No. RP09-809-000	Return on Equity
Spectra Energy	02/08	Saltville Gas Storage	Docket No. RP08-257-000	Return on Equity
Panhandle Energy Pipelines	08/07	Panhandle Energy Pipelines	Docket No. PL07-2-000	Response to draft policy statement regarding inclusion of MLPs in proxy groups for determination of gas pipeline ROEs
Southwest Gas Storage Company	08/07	Southwest Gas Storage Company	Docket No. RP07-541-000	Return on Equity
Southwest Gas Storage Company	06/07	Southwest Gas Storage Company	Docket No. RP07-34-000	Return on Equity
Sea Robin Pipeline LLC	06/07	Sea Robin Pipeline LLC	Docket No. RP07-513-000	Return on Equity
Transwestern Pipeline Company	09/06	Transwestern Pipeline Company	Docket No. RP06-614-000	Return on Equity
GPU International and Aquila	11/00	GPU International	Docket No. EC01-24-000	Market Power Study

SPONSOR	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
Florida Public Service Commission				
Tampa Electric Company	04/13	Tampa Electric Company	Docket No. 130040-EI	Return on Equity
Georgia Public Service Commission				
Atlanta Gas Light Company	05/10	Atlanta Gas Light Company	Docket No. 31647-U	Return on Equity
Hawaii Public Utilities Commission				
Hawaiian Electric Light Company	08/12	Hawaiian Electric Light Company	Docket No. 2012-0099	Return on Equity
Illinois Commerce Commission				
Ameren Illinois Company d/b/a Ameren Illinois	01/13	Ameren Illinois Company d/b/a Ameren Illinois	Docket No. 13-0192	Return on Equity
Ameren Illinois Company d/b/a Ameren Illinois	02/11	Ameren Illinois Company d/b/a Ameren Illinois	Docket No. 11-0279	Return on Equity (electric)
Ameren Illinois Company d/b/a Ameren Illinois	02/11	Ameren Illinois Company d/b/a Ameren Illinois	Docket No. 11-0282	Return on Equity (gas)
Indiana Utility Regulatory Commissio	n	·		·
Northern Indiana Public Service Company	05/09	Northern Indiana Public Service Company	Cause No. 43894	
Maine Public Utilities Commission				·
Central Maine Power Company	06/11	Central Maine Power Company	Docket No. 2010-327	Response to Bench Analysis provided by Commission Staff relating to the Company's credit and collections processes
Maryland Public Service Commission				
Potomac Electric Power Company	12/13	Potomac Electric Power Company	Case No. 9336	Return on Equity
Delmarva Power & Light Company	03/13	Delmarva Power & Light Company	Case No. 9317	Return on Equity
Potomac Electric Power Company	11/12	Potomac Electric Power Company	Case No. 9311	Return on Equity
Potomac Electric Power Company	12/11	Potomac Electric Power Company	Case No. 9286	Return on Equity
Delmarva Power & Light Company	12/11	Delmarva Power & Light Company	Case No. 9285	Return on Equity
Delmarva Power & Light Company	12/10	Delmarva Power & Light Company	Case No. 9249	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
Massachusetts Department of Publ	ic Utilities	-		
Unitil Corporation	07/13	Fitchburg Gas and Electric Light Company	DPU 13-90	Return on Equity
Bay State Gas Company d/b/a Columbia Gas of Massachusetts	04/12	Bay State Gas Company d/b/a Columbia Gas of Massachusetts	DPU 12-25	Capital Cost Recovery
National Grid	08/09	Massachusetts Electric Company d/b/a National Grid	DPU 09-39	Revenue Decoupling and Return on Equity
National Grid	08/09	Massachusetts Electric Company and Nantucket Electric Company d/b/a National Grid	DPU 09-38	Return on Equity – Solar Generation
Bay State Gas Company	04/09	Bay State Gas Company	DPU 09-30	Return on Equity
NSTAR Electric	09/04	NSTAR Electric	DTE 04-85	Divestiture of Power Purchase Agreement
NSTAR Electric	08/04	NSTAR Electric	DTE 04-78	Divestiture of Power Purchase Agreement
NSTAR Electric	07/04	NSTAR Electric	DTE 04-68	Divestiture of Power Purchase Agreement
NSTAR Electric	07/04	NSTAR Electric	DTE 04-61	Divestiture of Power Purchase Agreement
NSTAR Electric	06/04	NSTAR Electric	DTE 04-60	Divestiture of Power Purchase Agreement
Unitil Corporation	01/04	Fitchburg Gas and Electric	DTE 03-52	Integrated Resource Plan; Gas Demand Forecast
Bay State Gas Company	01/93	Bay State Gas Company	DPU 93-14	Divestiture of Shelf Registration
Bay State Gas Company	01/91	Bay State Gas Company	DPU 91-25	Divestiture of Shelf Registration
Minnesota Public Utilities Commis	sion			
Xcel Energy, Inc.	11/13	Northern States Power Company	Docket No. E002/GR-13- 868	Return on Equity

Sponsor	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Minnesota Gas	08/13	CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Minnesota Gas	Docket No. G-008/GR-13- 316	Return on Equity
Xcel Energy, Inc.	11/12	Northern States Power Company	Docket No. E002/GR-12- 961	Return on Equity
Otter Tail Power Corporation	04/10	Otter Tail Power Company	Docket No. E-017/GR-10- 239	Return on Equity
Minnesota Power a division of ALLETE, Inc.	11/09	Minnesota Power	Docket No. E-015/GR-09- 1151	Return on Equity
CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Minnesota Gas	11/08	CenterPoint Energy Minnesota Gas	Docket No. G-008/GR-08- 1075	Return on Equity
Otter Tail Power Corporation	10/07	Otter Tail Power Company	Docket No. E-017/GR-07- 1178	Return on Equity
Xcel Energy, Inc.	11/05	Northern States Power Company - Minnesota	Docket No. E-002/GR-05- 1428	Return on Equity (electric)
Xcel Energy, Inc.	09/04	Northern States Power Company - Minnesota	Docket No. G-002/GR-04- 1511	Return on Equity (gas)
CenterPoint Energy Resources Corp.		CenterPoint Energy Minnesota Gas	Docket No. E008/GR-13- 316	
Mississippi Public Service Commission	l		·	
CenterPoint Energy Resources, Corp. d/b/a CenterPoint Energy Entex and CenterPoint Energy Mississippi Gas	07/09	CenterPoint Energy Mississippi Gas	Docket No. 09-UN-334	Return on Equity
Missouri Public Service Commission				
Laclede Gas Company	12/12	Laclede Gas Company	Case No. GR-2013-0171	Return on Equity
Union Electric Company d/b/a Ameren Missouri	02/12	Union Electric Company d/b/a Ameren Missouri	Case No. ER-2012-0166	Return on Equity (electric)
Union Electric Company d/b/a AmerenUE	09/10	Union Electric Company d/b/a AmerenUE	Case No. ER-2011-0028	Return on Equity (electric)

SPONSOR	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
Union Electric Company d/b/a AmerenUE	06/10	Union Electric Company d/b/a AmerenUE	Case No. GR-2010-0363	Return on Equity (gas)
Montana Public Service Commission				
Northwestern Corporation	09/12	Northwestern Corporation d/b/a Northwestern Energy	Docket No. D2012.9.94	Return on Equity (gas)
Nevada Public Utilities Commission				
Southwest Gas Corporation	04/12	Southwest Gas Corporation	Docket No. 12-04005	Return on Equity (gas)
Nevada Power Company	06/11	Nevada Power Company	Docket No. 11-06006	Return on Equity (electric)
New Hampshire Public Utilities Comm	nission		1	
Liberty Utilities d/b/a Granite State Electric Company	03/13	Liberty Utilities d/b/a Granite State Electric Company	Docket No. DE 13-063	Return on Equity
EnergyNorth Natural Gas d/b/a National Grid NH	02/10	EnergyNorth Natural Gas d/b/a National Grid NH	Docket No. DG 10-017	Return on Equity
Unitil Energy Systems, Inc. ("Unitil"), EnergyNorth Natural Gas, Inc. d/b/a National Grid NH, Granite State Electric Company d/b/a National Grid, and Northern Utilities, Inc. – New Hampshire Division	08/08	Unitil Energy Systems, Inc. ("Unitil"), EnergyNorth Natural Gas, Inc. d/b/a National Grid NH, Granite State Electric Company d/b/a National Grid, and Northern Utilities, Inc. – New Hampshire Division	Docket No. DG 07-072	Carrying Charge Rate on Cash Working Capital
New Jersey Board of Public Utilities				
Orange and Rockland Utilities	11/13	Rockland Electric Company	Docket No. ER13111135	Return on Equity
Atlantic City Electric Company	12/12	Atlantic City Electric Company	Docket No. ER12121071	Return on Equity
Atlantic City Electric Company	08/11	Atlantic City Electric Company	Docket No. ER11080469	Return on Equity
Pepco Holdings, Inc.	09/06	Atlantic City Electric Company	Docket No. EM06090638	Divestiture and Valuation of Electric Generating Assets
Pepco Holdings, Inc.	12/05	Atlantic City Electric Company	Docket No. EM05121058	Market Value of Electric Generation Assets; Auction

Sponsor	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
Conectiv	06/03	Atlantic City Electric Company	Docket No. EO03020091	Market Value of Electric Generation Assets; Auction Process
New Mexico Public Regulation Comm	ission			
Southwestern Public Service Company	02/11	Southwestern Public Service Company	Case No. 10-00395-UT	Return on Equity (electric)
Public Service Company of New Mexico	06/10	Public Service Company of New Mexico	Case No. 10-00086-UT	Return on Equity (electric)
Public Service Company of New Mexico	09/08	Public Service Company of New Mexico	Case No. 08-00273-UT	Return on Equity (electric)
Xcel Energy, Inc.	07/07	Southwestern Public Service Company	Case No. 07-00319-UT	Return on Equity (electric)
New York State Public Service Comm	ission			
Consolidated Edison Company of New York, Inc.	01/13	Consolidated Edison Company of New York, Inc.	Case No. 13-E-0030	Return on Equity (electric)
Niagara Mohawk Corporation d/b/a National Grid for Electric Service	04/12	Niagara Mohawk Corporation d/b/a National Grid for Electric Service	Case No. 12-E-0201	Return on Equity (electric)
Niagara Mohawk Corporation d/b/a National Grid for Gas Service	04/12	Niagara Mohawk Corporation d/b/a National Grid for Gas Service	Case No. 12-G-0202	Return on Equity (gas)
Orange and Rockland Utilities, Inc.	07/11	Orange and Rockland Utilities, Inc.	Case No. 11-E-0408	Return on Equity (electric)
Orange and Rockland Utilities, Inc.	07/10	Orange and Rockland Utilities, Inc.	Case No. 10-E-0362	Return on Equity (electric)
Consolidated Edison Company of New York, Inc.	11/09	Consolidated Edison Company of New York, Inc.	Case No. 09-G-0795	Return on Equity (gas)
Consolidated Edison Company of New York, Inc.	11/09	Consolidated Edison Company of New York, Inc.	Case No. 09-S-0794	Return on Equity (steam)
Niagara Mohawk Power Corporation	07/01	Niagara Mohawk Power Corporation	Case No. 01-E-1046	Power Purchase and Sale Agreement; Standard Offer Service Agreement

Sponsor	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT		
North Carolina Utilities Commission						
Duke Energy Carolinas, LLC	02/13	Duke Energy Carolinas, LLC	Docket No. E-7, Sub 1026	Return on Equity		
Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.	10/12	Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.	Docket No. E-2, Sub 1023	Return on Equity		
Virginia Electric and Power Company d/b/a Dominion North Carolina Power	03/12	Virginia Electric and Power Company d/b/a Dominion North Carolina Power	Docket No. E-22, Sub 479	Return on Equity (electric)		
Duke Energy Carolinas, LLC	07/11	Duke Energy Carolinas, LLC	Docket No. E-7, Sub 989	Return on Equity (electric)		
North Dakota Public Service Commiss	sion					
Otter Tail Power Company	11/08	Otter Tail Power Company	Docket No. 08-862	Return on Equity (electric)		
Oklahoma Corporation Commission						
Oklahoma Gas & Electric Company	07/11	Oklahoma Gas & Electric Company	Cause No. PUD201100087	Return on Equity		
CenterPoint Energy Resources Corp., d/b/a CenterPoint Energy Oklahoma Gas	03/09	CenterPoint Energy Oklahoma Gas	Cause No. PUD200900055	Return on Equity		
Rhode Island Public Utilities Commiss	sion					
The Narragansett Electric Company d/b/a National Grid	04/12	The Narragansett Electric Company d/b/a National Grid	Docket No. 4323	Return on Equity (electric & gas)		
National Grid RI – Gas	08/08	National Grid RI – Gas	Docket No. 3943	Revenue Decoupling and Return on Equity		
South Carolina Public Service Commi	ssion					
Duke Energy Carolinas, LLC	03/13	Duke Energy Carolinas, LLC	Docket No. 2013-59-E	Return on Equity		
South Carolina Electric & Gas	06/12	South Carolina Electric & Gas	Docket No. 2012-218-E	Return on Equity		
Duke Energy Carolinas, LLC	08/11	Duke Energy Carolinas, LLC	Docket No. 2011-271-E	Return on Equity		
South Carolina Electric & Gas	03/10	South Carolina Electric & Gas	Docket No. 2009-489-E	Return on Equity		

SPONSOR	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
South Dakota Public Utilities Commiss	sion			
Otter Tail Power Company	08/10	Otter Tail Power Company	Docket No. EL10-011	Return on Equity (electric)
Northern States Power Company	06/09	South Dakota Division of Northern States Power	Docket No. EL09-009	Return on Equity (electric)
Otter Tail Power Company	10/08	Otter Tail Power Company	Docket No. EL08-030	Return on Equity (electric)
Texas Public Utility Commission				
Sharyland Utilities, L.P.	05/13	Sharyland Utilities, L.P.	Docket No. 41474	Return on Equity
Wind Energy Texas Transmission, LLC	08/12	Wind Energy Texas Transmission, LLC	Docket No. 40606	Return on Equity
Southwestern Electric Power Company	07/12	Southwestern Electric Power Company	Docket No. 40443	Return on Equity
Oncor Electric Delivery Company, LLC	01/11	Oncor Electric Delivery Company, LLC	Docket No. 38929	Return on Equity
Texas-New Mexico Power Company	08/10	Texas-New Mexico Power Company	Docket No. 38480	Return on Equity (electric)
CenterPoint Energy Houston Electric LLC	06/10	CenterPoint Energy Houston Electric LLC	Docket No. 38339	Return on Equity
Xcel Energy, Inc.	05/10	Southwestern Public Service Company	Docket No. 38147	Return on Equity (electric)
Texas-New Mexico Power Company	08/08	Texas-New Mexico Power Company	Docket No. 36025	Return on Equity (electric)
Xcel Energy, Inc.	05/06	Southwestern Public Service Company	Docket No. 32766	Return on Equity (electric)
Texas Railroad Commission		·		
CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Entex and CenterPoint Energy Texas Gas	07/12	CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Entex and CenterPoint Energy Texas Gas	GUD 10182	Return on Equity
Atmos Energy Corporation – West Texas Division	06/12	Atmos Energy Corporation – West Texas Division	GUD 10175	Return on Equity
Atmos Energy Corporation – Mid- Texas Division	06/12	Atmos Energy Corporation – Mid- Texas Division	GUD 10171	Return on Equity

SPONSOR	DATE	CASE/APPLICANT	DOCKET NO.	SUBJECT
CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Entex and CenterPoint Energy Texas Gas	12/10	CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Entex and CenterPoint Energy Texas Gas	GUD 10038	Return on Equity
Atmos Pipeline - Texas	09/10	Atmos Pipeline - Texas	GUD 10000	Return on Equity
CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Entex and CenterPoint Energy Texas Gas	07/09	CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Entex and CenterPoint Energy Texas Gas	GUD 9902	Return on Equity
CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Texas Gas	03/08	CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Texas Gas	GUD 9791	Return on Equity
Utah Public Service Commission				
Questar Gas Company	12/07	Questar Gas Company	Docket No. 07-057-13	Return on Equity
Vermont Public Service Board				
Central Vermont Public Service Corporation; Green Mountain Power	02/12	Central Vermont Public Service Corporation; Green Mountain Power	Docket No. 7770	Merger Policy
Central Vermont Public Service Corporation	12/10	Central Vermont Public Service Corporation	Docket No. 7627	Return on Equity (electric)
Green Mountain Power	04/06	Green Mountain Power	Docket Nos. 7175 and 7176	Return on Equity (electric)
Vermont Gas Systems, Inc.	12/05	Vermont Gas Systems	Docket Nos. 7109 and 7160	Return on Equity (gas)
Virginia State Corporation Commission	on			
Virginia Electric and Power Company	03/13	Virginia Electric and Power Company	Case No. PUE-2013-00020	Return on Equity
Virginia Natural Gas, Inc.	02/11	Virginia Natural Gas, Inc.	Case No. PUE-2010-00142	Capital Structure
Columbia Gas Of Virginia, Inc.	06/06	Columbia Gas Of Virginia, Inc.	Case No. PUE-2005-00098	Merger Synergies
Dominion Resources	10/01	Virginia Electric and Power Company	Case No. PUE000584	Corporate Structure and Electric Generation Strategy

Quarterly Discounted Cash Flow Model 30 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]
Company	Ticker	Dividend 1	Dividend 2	Dividend 3	Dividend 4		Expected Dividend 2	Expected Dividend 3		Stock Price	Zacks Earnings Growth	First Call Earnings Growth	Value Line Earnings Growth	Sustainable Growth Rate	Average Earnings Growth	Low ROE	Mean ROE	High ROE
AGL Resources Inc.	GAS	\$0.47	\$0.47	\$0.47	\$0.47	\$0.50	\$0.50	\$0.50	\$0.50	\$46.44	5.00%	NA	8.00%	4.66%	5.89%	9.04%	10.34%	12.57%
Atmos Energy Corporation	ATO	\$0.35	\$0.35	\$0.35	\$0.37	\$0.37	\$0.37	\$0.37	\$0.40	\$44.74	6.50%	7.75%	7.50%	6.30%	7.01%	9.80%	10.54%	11.31%
Laclede Group, Inc. (The)	LG	\$0.43	\$0.43	\$0.43	\$0.44	\$0.45	\$0.45	\$0.45	\$0.46	\$45.67	4.30%	4.90%	6.00%	4.82%	5.00%	8.34%	9.08%	10.13%
New Jersey Resources Corporation	NJR	\$0.40	\$0.40	\$0.42	\$0.42	\$0.42	\$0.42	\$0.44	\$0.44	\$45.15	4.00%	2.50%	5.50%	7.16%	4.79%	6.31%	8.72%	11.21%
Northwest Natural Gas Company	NWN	\$0.46	\$0.46	\$0.46	\$0.46	\$0.47	\$0.47	\$0.47	\$0.48	\$42.38	4.00%	4.00%	4.50%	4.46%	4.24%	8.62%	8.87%	9.15%
Piedmont Natural Gas Company, Inc.	PNY	\$0.31	\$0.31	\$0.31	\$0.31	\$0.32	\$0.32	\$0.32	\$0.32	\$32.82	5.00%	4.00%	4.00%	3.64%	4.16%	7.66%	8.21%	9.10%
South Jersey Industries, Inc.	SJI	\$0.44	\$0.44	\$0.44	\$0.47	\$0.47	\$0.47	\$0.47	\$0.51	\$55.64	6.00%	6.00%	7.50%	9.66%	7.29%	9.55%	10.90%	13.38%
Southwest Gas Corporation	SWX	\$0.33	\$0.33	\$0.33	\$0.33	\$0.35	\$0.35	\$0.35	\$0.35	\$53.38	3.40%	2.55%	8.00%	8.00%	5.49%	5.13%	8.18%	10.78%
WGL Holdings, Inc.	WGL	\$0.42	\$0.42	\$0.42	\$0.42	\$0.44	\$0.44	\$0.44	\$0.44	\$39.40	4.60%	4.60%	3.50%	3.89%	4.15%	8.04%	8.73%	9.21%
Mean											4.76%	4.54%	6.06%	5.84%	5.34%	8.05%	9.29%	10.76%
Flotation Costs																0.15%	0.15%	0.15%
Mean (including Flotation Costs)																8.21%	9.44%	10.91%

Notes: [1] Source: Bloomberg Professional Service [2] Source: Bloomberg Professional Service [3] Source: Bloomberg Professional Service [4] Source: Bloomberg Professional Service [5] Equals Col. [1] x (1 + Col. [14]) [6] Equals Col. [2] x (1 + Col. [14]) [7] Equals Col. [3] x (1 + Col. [14]) [8] Equals Col. [4] x (1 + Col. [14]) [9] Source: Bloomberg Professional Service, equals indicated number of trading day average as of December 31, 2013 [10] Source: Zacks [11] Source: Value Line [13] Schedule RBH-4 [14] Equals Average (Cols. [10], [11], [12], [13]) [15] Implied Low DCF [16] Implied Mean DCF

Quarterly Discounted Cash Flow Model 90 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]
Company	Ticker	Dividend 1	Dividend 2	Dividend 3	Dividend 4	•	Expected Dividend 2	Expected Dividend 3			Zacks Earnings Growth	First Call Earnings Growth	Value Line Earnings Growth	Sustainable Growth Rate	Average Earnings Growth	Low ROE	Mean ROE	High ROE
AGL Resources Inc.	GAS	\$0.47	\$0.47	\$0.47	\$0.47	\$0.50	\$0.50	\$0.50	\$0.50	\$46.07	5.00%	NA	8.00%	4.66%	5.89%	9.08%	10.37%	12.61%
Atmos Energy Corporation	ATO	\$0.35	\$0.35	\$0.35	\$0.37	\$0.37	\$0.37	\$0.37	\$0.40	\$43.26	6.50%	7.75%	7.50%	6.30%	7.01%	9.92%	10.66%	11.43%
Laclede Group, Inc. (The)	LG	\$0.43	\$0.43	\$0.43	\$0.44	\$0.45	\$0.45	\$0.45	\$0.46	\$45.49	4.30%	4.90%	6.00%	4.82%	5.00%	8.35%	9.09%	10.14%
New Jersey Resources Corporation	NJR	\$0.40	\$0.40	\$0.42	\$0.42	\$0.42	\$0.42	\$0.44	\$0.44	\$44.52	4.00%	2.50%	5.50%	7.16%	4.79%	6.36%	8.77%	11.27%
Northwest Natural Gas Company	NWN	\$0.46	\$0.46	\$0.46	\$0.46	\$0.47	\$0.47	\$0.47	\$0.48	\$42.14	4.00%	4.00%	4.50%	4.46%	4.24%	8.65%	8.90%	9.18%
Piedmont Natural Gas Company, Inc.	PNY	\$0.31	\$0.31	\$0.31	\$0.31	\$0.32	\$0.32	\$0.32	\$0.32	\$32.93	5.00%	4.00%	4.00%	3.64%	4.16%	7.65%	8.20%	9.09%
South Jersey Industries, Inc.	SJI	\$0.44	\$0.44	\$0.44	\$0.47	\$0.47	\$0.47	\$0.47	\$0.51	\$57.35	6.00%	6.00%	7.50%	9.66%	7.29%	9.44%	10.79%	13.27%
Southwest Gas Corporation	SWX	\$0.33	\$0.33	\$0.33	\$0.33	\$0.35	\$0.35	\$0.35	\$0.35	\$51.42	3.40%	2.55%	8.00%	8.00%	5.49%	5.23%	8.28%	10.89%
WGL Holdings, Inc.	WGL	\$0.42	\$0.42	\$0.42	\$0.42	\$0.44	\$0.44	\$0.44	\$0.44	\$41.66	4.60%	4.60%	3.50%	3.89%	4.15%	7.79%	8.48%	8.96%
Mean											4.76%	4.54%	6.06%	5.84%	5.34%	8.05%	9.28%	10.76%
Flotation Costs																0.15%	0.15%	0.15%
Mean (including Flotation Costs)																8.20%	9.44%	10.91%

Notes: [1] Source: Bloomberg Professional Service [2] Source: Bloomberg Professional Service [3] Source: Bloomberg Professional Service [4] Source: Bloomberg Professional Service [5] Equals Col. [1] x (1 + Col. [14]) [6] Equals Col. [2] x (1 + Col. [14]) [7] Equals Col. [3] x (1 + Col. [14]) [8] Equals Col. [4] x (1 + Col. [14]) [9] Source: Bloomberg Professional Service, equals indicated number of trading day average as of December 31, 2013 [10] Source: Zacks [11] Source: Value Line [13] Schedule RBH-4 [14] Equals Average (Cols. [10], [11], [12], [13]) [15] Implied Low DCF [16] Implied Mean DCF

Quarterly Discounted Cash Flow Model 180 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]
Company	Ticker	Dividend 1	Dividend 2	Dividend 3	Dividend 4		Expected Dividend 2	Expected Dividend 3		Stock Price	Zacks Earnings Growth	First Call Earnings Growth	Value Line Earnings Growth	Sustainable Growth Rate	Average Earnings Growth	Low ROE	Mean ROE	High ROE
AGL Resources Inc.	GAS	\$0.47	\$0.47	\$0.47	\$0.47	\$0.50	\$0.50	\$0.50	\$0.50	\$45.00	5.00%	NA	8.00%	4.66%	5.89%	9.18%	10.48%	12.72%
Atmos Energy Corporation	ATO	\$0.35	\$0.35	\$0.35	\$0.37	\$0.37	\$0.37	\$0.37	\$0.40	\$43.02	6.50%	7.75%	7.50%	6.30%	7.01%	9.94%	10.68%	11.45%
Laclede Group, Inc. (The)	LG	\$0.43	\$0.43	\$0.43	\$0.44	\$0.45	\$0.45	\$0.45	\$0.46	\$45.73	4.30%	4.90%	6.00%	4.82%	5.00%	8.33%	9.07%	10.12%
New Jersey Resources Corporation	NJR	\$0.40	\$0.40	\$0.42	\$0.42	\$0.42	\$0.42	\$0.44	\$0.44	\$44.64	4.00%	2.50%	5.50%	7.16%	4.79%	6.35%	8.76%	11.26%
Northwest Natural Gas Company	NWN	\$0.46	\$0.46	\$0.46	\$0.46	\$0.47	\$0.47	\$0.47	\$0.48	\$42.87	4.00%	4.00%	4.50%	4.46%	4.24%	8.57%	8.82%	9.10%
Piedmont Natural Gas Company, Inc.	PNY	\$0.31	\$0.31	\$0.31	\$0.31	\$0.32	\$0.32	\$0.32	\$0.32	\$33.51	5.00%	4.00%	4.00%	3.64%	4.16%	7.58%	8.13%	9.01%
South Jersey Industries, Inc.	SJI	\$0.44	\$0.44	\$0.44	\$0.47	\$0.47	\$0.47	\$0.47	\$0.51	\$58.34	6.00%	6.00%	7.50%	9.66%	7.29%	9.38%	10.73%	13.21%
Southwest Gas Corporation	SWX	\$0.33	\$0.33	\$0.33	\$0.33	\$0.35	\$0.35	\$0.35	\$0.35	\$50.15	3.40%	2.55%	8.00%	8.00%	5.49%	5.30%	8.35%	10.96%
WGL Holdings, Inc.	WGL	\$0.42	\$0.42	\$0.42	\$0.42	\$0.44	\$0.44	\$0.44	\$0.44	\$42.98	4.60%	4.60%	3.50%	3.89%	4.15%	7.66%	8.34%	8.82%
Mean											4.76%	4.54%	6.06%	5.84%	5.34%	8.03%	9.26%	10.74%
Flotation Costs																0.15%	0.15%	0.15%
Mean (including Flotation Costs)																8.18%	9.42%	10.89%

Notes:

[1] Source: Bloomberg Professional Service [1] Source: Bloomberg Professional Service [3] Source: Bloomberg Professional Service [4] Source: Bloomberg Professional Service [5] Equals Col. [1] x (1 + Col. [14]) [6] Equals Col. [2] x (1 + Col. [14]) [7] Equals Col. [3] x (1 + Col. [14])[8] Equals Col. [4] x (1 + Col. [14])[9] Source: Bloomberg Professional Service, equals indicated number of trading day average as of December 31, 2013 [10] Source: Zacks [11] Source: Yahoo! Finance [12] Source: Value Line [13] Schedule RBH-4 [14] Equals Average (Cols. [10], [11], [12], [13]) [15] Implied Low DCF [16] Implied Mean DCF [17] Implied High DCF

[1] [2] [6] [7] [8] [9] [10] [11] [12] [3] [4] [5] Sustainable Average Expected Zacks First Call Value Line Average Annualized Stock Dividend Dividend Earnings Earnings Earnings Growth Earnings High Low Mean Company Ticker Dividend Price Yield Yield Growth Growth Growth Estimate Growth ROE ROE ROE GAS 4.17% 5.00% 8.00% AGL Resources Inc. \$1.88 \$46.44 4.05% NA 4.66% 5.89% 8.81% 10.05% 12.21% Atmos Energy Corporation ATO \$1.48 \$44.74 3.31% 3.42% 6.50% 7.75% 7.50% 6.30% 7.01% 9.72% 10.44% 11.19% Laclede Group, Inc. (The) LG \$1.76 \$45.67 3.85% 3.95% 4.30% 4.90% 6.00% 4.82% 5.00% 8.24% 8.95% 9.97% New Jersey Resources Corporation NJR \$1.68 \$45.15 3.72% 3.81% 4.00% 2.50% 5.50% 7.16% 4.79% 6.27% 8.60% 11.02% Northwest Natural Gas Company NWN 4.34% 4.43% 4.00% 4.00% 4.50% 4.46% 4.24% 8.43% 8.67% 8.94% \$1.84 \$42.38 Piedmont Natural Gas Company, Inc. PNY \$1.24 \$32.82 3.78% 3.86% 5.00% 4.00% 4.00% 3.64% 4.16% 7.48% 8.02% 8.87% South Jersey Industries, Inc. SJI \$1.89 \$55.64 3.40% 3.52% 6.00% 6.00% 7.50% 9.66% 7.29% 9.50% 10.81% 13.22% Southwest Gas Corporation SWX \$1.32 \$53.38 2.47% 2.54% 3.40% 2.55% 8.00% 8.00% 5.49% 5.05% 8.03% 10.58% WGL Holdings, Inc. WGL \$1.68 \$39.40 4.26% 4.35% 4.60% 4.60% 3.50% 3.89% 4.15% 7.84% 8.50% 8.96% Mean 3.69% 4.76% 7.93% 9.12% 10.55% 3.78% 4.54% 6.06% 5.84% 5.34% Flotation Costs 0.15% 0.15% 0.15% Mean (including Flotation Costs) 8.08% 9.27% 10.70%

Constant Growth Discounted Cash Flow Model 30 Day Average Stock Price

Notes:

[1] Source: Bloomberg Professional Service

[2] Source: Bloomberg Professional Service, equals indicated number of trading day average as of December 31, 2013

- [3] Equals [1] / [2]
- [4] Equals [3] x (1 + 0.5 x [9])
- [5] Source: Zacks

[6] Source: Yahoo! Finance

[7] Source: Value Line

[8] Source: Schedule RBH-4

[9] Equals Average([5], [6], [7], [8])

[10] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7], [8])) + Minimum([5], [6], [7], [8])

[11] Equals [4] + [9]

[12] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7], [8])) + Maximum([5], [6], [7], [8])

[1] [2] [6] [7] [8] [9] [10] [11] [12] [3] [4] [5] Sustainable Average Expected Zacks First Call Value Line Average Annualized Stock Dividend Dividend Earnings Earnings Earnings Growth Earnings High Low Mean Company Ticker Dividend Price Yield Yield Growth Growth Growth Estimate Growth ROE ROE ROE 8.84% GAS \$46.07 4.08% 4.20% 5.00% 8.00% AGL Resources Inc. \$1.88 NA 4.66% 5.89% 10.09% 12.24% Atmos Energy Corporation ATO \$1.48 \$43.26 3.42% 3.54% 6.50% 7.75% 7.50% 6.30% 7.01% 9.83% 10.55% 11.30% Laclede Group, Inc. (The) LG \$1.76 \$45.49 3.87% 3.97% 4.30% 4.90% 6.00% 4.82% 5.00% 8.25% 8.97% 9.98% New Jersey Resources Corporation NJR \$1.68 \$44.52 3.77% 3.86% 4.00% 2.50% 5.50% 7.16% 4.79% 6.32% 8.65% 11.07% Northwest Natural Gas Company NWN \$42.14 4.37% 4.46% 4.00% 4.00% 4.50% 4.46% 4.24% 8.45% 8.70% 8.97% \$1.84 Piedmont Natural Gas Company, Inc. PNY \$1.24 \$32.93 3.77% 3.84% 5.00% 4.00% 4.00% 3.64% 4.16% 7.47% 8.00% 8.86% South Jersey Industries, Inc. SJI \$1.89 \$57.35 3.30% 3.42% 6.00% 6.00% 7.50% 9.66% 7.29% 9.39% 10.71% 13.12% Southwest Gas Corporation SWX \$1.32 \$51.42 2.57% 2.64% 3.40% 2.55% 8.00% 8.00% 5.49% 5.15% 8.13% 10.67% WGL Holdings, Inc. WGL \$1.68 \$41.66 4.03% 4.12% 4.60% 4.60% 3.50% 3.89% 4.15% 7.60% 8.26% 8.73% Mean 3.69% 4.76% 7.92% 9.12% 10.55% 3.78% 4.54% 6.06% 5.84% 5.34% Flotation Costs 0.15% 0.15% 0.15% Mean (including Flotation Costs) 8.08% 9.27% 10.70%

Constant Growth Discounted Cash Flow Model 90 Day Average Stock Price

Notes:

[1] Source: Bloomberg Professional Service

[2] Source: Bloomberg Professional Service, equals indicated number of trading day average as of December 31, 2013

- [3] Equals [1] / [2]
- [4] Equals [3] x (1 + 0.5 x [9])
- [5] Source: Zacks

[6] Source: Yahoo! Finance

[7] Source: Value Line

[8] Source: Schedule RBH-4

[9] Equals Average([5], [6], [7], [8])

[10] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7], [8])) + Minimum([5], [6], [7], [8])

[11] Equals [4] + [9]

[12] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7], [8])) + Maximum([5], [6], [7], [8])

[1] [6] [7] [8] [9] [10] [11] [12] [2] [3] [4] [5] Value Line Sustainable Average Expected Zacks First Call Average Annualized Stock Dividend Dividend Earnings Earnings Earnings Growth Earnings High Low Mean Company Ticker Dividend Price Yield Yield Growth Growth Growth Estimate Growth ROE ROE ROE 8.94% GAS \$45.00 4.30% 5.00% 8.00% AGL Resources Inc. \$1.88 4.18% NA 4.66% 5.89% 10.19% 12.34% Atmos Energy Corporation ATO \$1.48 \$43.02 3.44% 3.56% 6.50% 7.75% 7.50% 6.30% 7.01% 9.85% 10.57% 11.32% Laclede Group, Inc. (The) LG \$1.76 \$45.73 3.85% 3.95% 4.30% 4.90% 6.00% 4.82% 5.00% 8.23% 8.95% 9.96% New Jersey Resources Corporation NJR \$1.68 \$44.64 3.76% 3.85% 4.00% 2.50% 5.50% 7.16% 4.79% 6.31% 8.64% 11.06% 4.29% Northwest Natural Gas Company NWN \$42.87 4.38% 4.00% 4.00% 4.50% 4.46% 4.24% 8.38% 8.62% 8.89% \$1.84 Piedmont Natural Gas Company, Inc. PNY \$1.24 \$33.51 3.70% 3.78% 5.00% 4.00% 4.00% 3.64% 4.16% 7.40% 7.94% 8.79% South Jersey Industries, Inc. SJI \$1.89 \$58.34 3.24% 3.36% 6.00% 6.00% 7.50% 9.66% 7.29% 9.34% 10.65% 13.06% Southwest Gas Corporation SWX \$1.32 \$50.15 2.63% 2.70% 3.40% 2.55% 8.00% 8.00% 5.49% 5.22% 8.19% 10.74% WGL Holdings, Inc. WGL \$1.68 \$42.98 3.91% 3.99% 4.60% 4.60% 3.50% 3.89% 4.15% 7.48% 8.14% 8.60% Mean 3.67% 4.76% 10.53% 3.76% 4.54% 6.06% 5.84% 5.34% 7.90% 9.10% Flotation Costs 0.15% 0.15% 0.15% Mean (including Flotation Costs) 9.25% 8.06% 10.68%

Constant Growth Discounted Cash Flow Model 180 Day Average Stock Price

Notes:

[1] Source: Bloomberg Professional Service

[2] Source: Bloomberg Professional Service, equals indicated number of trading day average as of December 31, 2013

- [3] Equals [1] / [2]
- [4] Equals [3] x (1 + 0.5 x [9])
- [5] Source: Zacks

[6] Source: Yahoo! Finance

[7] Source: Value Line

[8] Source: Schedule RBH-4

[9] Equals Average([5], [6], [7], [8])

[10] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7], [8])) + Minimum([5], [6], [7], [8])

[11] Equals [4] + [9]

[12] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7], [8])) + Maximum([5], [6], [7], [8])

Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price Average Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]				
		Stock		Grow	th Rate Est Value	imates Retention		Long-Term	F	Payout Rati	0	Iterative	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks	First Call	Line	Growth	Average	Growth	2013	2017	2024	Proof	IRR	P/E Ratio	PEG Ratio				
AGL Resources Inc.	GAS	\$46.44	5.00%	NA	8.00%	4.66%	5.89%	5.71%	70.00%	60.00%	69.45%	\$0.00	9.73%	18.28	3.20				
Atmos Energy Corp.	ATO	\$44.74	6.50%	7.75%	7.50%	6.30%	7.01%	5.71%	56.00%	52.00%	69.45%	(\$0.00)	9.68%	18.50	3.24				
Laclede Group New Jersey Resources	LG NJR	\$45.67 \$45.15	4.30% 4.00%	4.90% 2.50%	6.00% 5.50%	4.82% 7.16%	5.00% 4.79%	5.71% 5.71%	85.00% 58.00%	52.00% 48.00%	69.45% 69.45%	(\$0.00) (\$0.00)	10.30% 9.98%	16.02 17.21	2.80 3.01				
Northwest Natural Gas	NWN	\$42.38	4.00%	4.00%	4.50%	4.46%	4.24%	5.71%	85.00%	63.00%	69.45%	\$0.00	9.53%	19.25	3.37				
Piedmont Natural Gas	PNY	\$32.82	5.00%	4.00%	4.00%	3.64%	4.16%	5.71%	68.00%	68.00%	69.45%	(\$0.00)	9.36%	20.15	3.53				
South Jersey Industries	SJI	\$55.64	6.00%	6.00%	7.50%	9.66%	7.29%	5.71%	65.00%	57.00%	69.45%	(\$0.00)	10.48%	15.39	2.69				
Southwest Gas Corp.	SWX	\$53.38	3.40%	2.55%	8.00%	8.00%	5.49%	5.71%	40.00%	41.00%	69.45%	(\$0.00)	9.60%	18.90	3.31				
WGL Holdings, Inc.	WGL	\$39.40	4.60%	4.60%	3.50%	3.89%	4.15%	5.71%	72.00%	62.00%	69.45%	(\$0.00) MEAN	10.59% 9.92%	15.07	2.64				
												MAX	10.59% 9.36%						
Projected Annual		14.51	14.01	[4 7]	[40]	[40]	1001	1041	1001	1001	10.41	1051	1001	1071	1001	1001	1001	1041	
Earnings per Share		[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]	[31]	-
Company	Ticker	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
AGL Resources Inc.	GAS	\$2.32	\$2.46	\$2.60	\$2.75	\$2.92	\$3.09	\$3.27	\$3.46	\$3.66	\$3.88	\$4.10	\$4.34	\$4.58	\$4.84	\$5.12	\$5.41	\$5.72	
Atmos Energy Corp.	ATO	\$2.10	\$2.25	\$2.40	\$2.57	\$2.75	\$2.95	\$3.15	\$3.37	\$3.59	\$3.82	\$4.05	\$4.29	\$4.54	\$4.80	\$5.07	\$5.36	\$5.67	
Laclede Group New Jersey Resources	LG NJR	\$2.79 \$2.71	\$2.93 \$2.84	\$3.08 \$2.98	\$3.23 \$3.12	\$3.39 \$3.27	\$3.56 \$3.42	\$3.74 \$3.59	\$3.93 \$3.77	\$4.14 \$3.96	\$4.36 \$4.17	\$4.60 \$4.39	\$4.86 \$4.63	\$5.13 \$4.90	\$5.43 \$5.18	\$5.74 \$5.48	\$6.06 \$5.79	\$6.41 \$6.12	
New Jersey Resources Northwest Natural Gas	NWN	\$2.71 \$2.22	\$2.84 \$2.31	\$2.98 \$2.41	\$3.12 \$2.51	\$3.27 \$2.62	\$3.42 \$2.73	\$3.59 \$2.85	\$3.77 \$2.98	\$3.96	\$4.17 \$3.27	\$4.39 \$3.44	\$4.63 \$3.63	\$4.90 \$3.84	\$5.18 \$4.06	\$5.48 \$4.29	\$5.79 \$4.53	\$6.12 \$4.79	
Piedmont Natural Gas	PNY	\$1.66	\$1.73	\$1.80	\$1.88	\$1.95	\$2.04	\$2.12	\$2.21	\$2.32	\$2.43	\$2.56	\$2.70	\$2.85	\$3.01	\$3.19	\$3.37	\$3.56	
South Jersey Industries	SJI	\$3.03	\$3.25	\$3.49	\$3.74	\$4.02	\$4.31	\$4.62	\$4.95	\$5.28	\$5.62	\$5.98	\$6.33	\$6.69	\$7.08	\$7.48	\$7.91	\$8.36	
Southwest Gas Corp.	SWX	\$2.86	\$3.02	\$3.18	\$3.36	\$3.54	\$3.74	\$3.94	\$4.16	\$4.39	\$4.64	\$4.90	\$5.18	\$5.47	\$5.78	\$6.11	\$6.46	\$6.83	
WGL Holdings, Inc.	WGL	\$2.68	\$2.79	\$2.91	\$3.03	\$3.15	\$3.28	\$3.42	\$3.57	\$3.74	\$3.92	\$4.13	\$4.35	\$4.60	\$4.86	\$5.14	\$5.43	\$5.74	-
Projected Annual Dividend Payout Ratio			[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]	[47]	
Dividend Fayout Natio			[52]	[00]	[34]	[00]	[50]	[07]	[00]	[00]	[+0]	[+1]	[74]	[40]	[++]	[40]	[+0]	[+7]	
Company	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	-
AGL Resources Inc.	GAS ATO		70.00% 56.00%	67.50% 55.00%	65.00% 54.00%	62.50% 53.00%	60.00% 52.00%	61.35% 54.49%	62.70% 56.99%	64.05% 59.48%	65.40% 61.97%	66.75% 64.46%	68.10% 66.96%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
Atmos Energy Corp. Laclede Group	LG		85.00%	76.75%	68.50%	60.25%	52.00% 52.00%	54.49% 54.49%	56.99%	59.48%	61.97%	64.46%	66.96%	69.45%	69.45%	69.45%	69.45% 69.45%	69.45%	
New Jersey Resources	NJR		58.00%	55.50%	53.00%	50.50%	48.00%	51.06%	54.13%	57.19%	60.26%	63.32%	66.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
Northwest Natural Gas	NWN		85.00%	79.50%	74.00%	68.50%	63.00%	63.92%	64.84%	65.76%	66.69%	67.61%	68.53%	69.45%	69.45%	69.45%	69.45%	69.45%	
Piedmont Natural Gas	PNY		68.00%	68.00%	68.00%	68.00%	68.00%	68.21%	68.41%	68.62%	68.83%	69.04%	69.24%	69.45%	69.45%	69.45%	69.45%	69.45%	
South Jersey Industries	SJI		65.00%	63.00%	61.00%	59.00%	57.00%	58.78%	60.56%	62.34%	64.11%	65.89%	67.67%	69.45%	69.45%	69.45%	69.45%	69.45%	
Southwest Gas Corp. WGL Holdings, Inc.	SWX WGL		40.00% 72.00%	40.25% 69.50%	40.50% 67.00%	40.75% 64.50%	41.00% 62.00%	45.06% 63.06%	49.13% 64.13%	53.19% 65.19%	57.26% 66.26%	61.32% 67.32%	65.39% 68.39%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
																			-
Projected Annual																			
Cash Flows			[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]	[64]
Compony	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Terminal Value
Company AGL Resources Inc.	GAS		\$1.72	\$1.76	\$1.79	\$1.82	\$1.85	\$2.01	\$2.17	\$2.35	\$2.53	\$2.74	\$2.95	\$3.18	\$3.36	\$3.56	\$3.76	\$3.97	\$104.61
Atmos Energy Corp.	ATO		\$1.26	\$1.32	\$1.39	\$1.46	\$1.53	\$1.72	\$1.92	\$2.14	\$2.37	\$2.61	\$2.87	\$3.15	\$3.33	\$3.52	\$3.72	\$3.94	\$104.85
Laclede Group	LG		\$2.49	\$2.36	\$2.21	\$2.04	\$1.85	\$2.04	\$2.24	\$2.46	\$2.70	\$2.96	\$3.25	\$3.56	\$3.77	\$3.98	\$4.21	\$4.45	\$102.66
New Jersey Resources	NJR		\$1.65	\$1.65	\$1.65	\$1.65	\$1.64	\$1.83	\$2.04	\$2.26	\$2.51	\$2.78	\$3.08	\$3.40	\$3.60	\$3.80	\$4.02	\$4.25	\$105.31
Northwest Natural Gas Piedmont Natural Gas	NWN PNY		\$1.97 \$1.18	\$1.92 \$1.22	\$1.86 \$1.28	\$1.80 \$1.33	\$1.72 \$1.38	\$1.82 \$1.45	\$1.93 \$1.51	\$2.05 \$1.59	\$2.18 \$1.67	\$2.33 \$1.77	\$2.49 \$1.87	\$2.67 \$1.98	\$2.82 \$2.09	\$2.98 \$2.21	\$3.15 \$2.34	\$3.33 \$2.47	\$92.25 \$71.74
South Jersey Industries	SJI		\$2.11	\$2.20	\$2.28	\$2.37	\$2.46	\$2.72	\$3.00	\$3.29	\$3.61	\$3.94	\$4.29	\$4.65	\$4.92	\$5.20	\$5.49	\$5.81	\$128.65
Southwest Gas Corp.	SWX		\$1.21	\$1.28	\$1.36	\$1.44	\$1.53	\$1.78	\$2.04	\$2.34	\$2.65	\$3.00	\$3.38	\$3.80	\$4.02	\$4.25	\$4.49	\$4.75	\$129.12
WGL Holdings, Inc.	WGL		\$2.01	\$2.02	\$2.03	\$2.03	\$2.04	\$2.16	\$2.29	\$2.44	\$2.60	\$2.78	\$2.97	\$3.19	\$3.38	\$3.57	\$3.77	\$3.99	\$86.54
Projected Annual Data																			
Investor Cash Flows		[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]	[82]
Company	Ticker	Initial Outflow	12/31/13	12/31/13	6/30/14	6/30/15	6/30/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28
AGL Resources Inc.	GAS	(\$46.44)		\$0.00	\$1.77	\$1.79	\$1.82	\$1.85	\$2.01	\$2.17	\$2.35	\$2.53	\$2.74	\$2.95	\$3.18	\$3.36	\$3.56	\$3.76	\$108.58
Atmos Energy Corp.	ATO	(\$44.74)		\$0.00	\$1.30	\$1.39	\$1.46	\$1.53	\$1.72	\$1.92	\$2.14	\$2.37	\$2.61	\$2.87	\$3.15	\$3.33	\$3.52	\$3.72	\$108.79
Laclede Group New Jersey Resources	LG NJR	(\$45.67) (\$45.15)		\$0.00 \$0.00	\$2.55 \$1.69	\$2.21 \$1.65	\$2.04 \$1.65	\$1.85 \$1.64	\$2.04 \$1.83	\$2.24 \$2.04	\$2.46 \$2.26	\$2.70 \$2.51	\$2.96 \$2.78	\$3.25 \$3.08	\$3.56 \$3.40	\$3.77 \$3.60	\$3.98 \$3.80	\$4.21 \$4.02	\$107.11 \$109.56
Northwest Natural Gas	NWN	(\$45.15) (\$42.38)		\$0.00	\$2.01	\$1.86	\$1.80	\$1.64	\$1.82	\$2.04 \$1.93	\$2.26	\$2.51	\$2.33	\$3.08 \$2.49	\$3.40 \$2.67	\$2.80	\$3.80 \$2.98	\$4.02 \$3.15	\$95.58
Piedmont Natural Gas	PNY	(\$32.82)		\$0.00	\$1.20	\$1.28	\$1.33	\$1.38	\$1.45	\$1.51	\$1.59	\$1.67	\$1.77	\$1.87	\$1.98	\$2.09	\$2.21	\$2.34	\$74.22
South Jersey Industries	SJI	(\$55.64)		\$0.00	\$2.19	\$2.28	\$2.37	\$2.46	\$2.72	\$3.00	\$3.29	\$3.61	\$3.94	\$4.29	\$4.65	\$4.92	\$5.20	\$5.49	\$134.46
Southwest Gas Corp.	SWX	(\$53.38)		\$0.00	\$1.24	\$1.36	\$1.44	\$1.53	\$1.78	\$2.04	\$2.34	\$2.65	\$3.00	\$3.38	\$3.80	\$4.02	\$4.25	\$4.49	\$133.87
WGL Holdings, Inc.	WGL	(\$39.40)		\$0.00	\$2.05	\$2.03	\$2.03	\$2.04	\$2.16	\$2.29	\$2.44	\$2.60	\$2.78	\$2.97	\$3.19	\$3.38	\$3.57	\$3.77	\$90.53

Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price Low Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]				
		Stock		Grow	th Rate Est Value	Retention	Low	Long-Term	ŀ	Payout Rati	0	Iterative	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks	First Call	Line	Growth	Growth	Growth	2013	2017	2024	Proof	IRR		PEG Ratio				
AGL Resources Inc.	GAS ATO	\$46.44 \$44.74	5.00%	NA 7 75%	8.00%	4.66%	4.66%	5.71%	70.00%	60.00%	69.45%	(\$0.00) (\$0.00)	9.39%	19.99	3.50				
Atmos Energy Corp. Laclede Group	LG	\$44.74 \$45.67	6.50% 4.30%	7.75% 4.90%	7.50% 6.00%	6.30% 4.82%	6.30% 4.30%	5.71% 5.71%	56.00% 85.00%	52.00% 52.00%	69.45% 69.45%	(\$0.00) \$0.00	9.49% 10.07%	19.45 16.85	3.40 2.95				
New Jersey Resources	NJR	\$45.15	4.00%	2.50%	5.50%	7.16%	2.50%	5.71%	58.00%	48.00%	69.45%	\$0.00	9.32%	20.33	3.56				
Northwest Natural Gas	NWN	\$42.38	4.00%	4.00%	4.50%	4.46%	4.00%	5.71%	85.00%	63.00%	69.45%	\$0.00	9.46%	19.59	3.43				
Piedmont Natural Gas	PNY	\$32.82 \$55.64	5.00%	4.00%	4.00%	3.64%	3.64%	5.71%	68.00%	68.00%	69.45%	\$0.00	9.22% 10.07%	20.96	3.67				
South Jersey Industries Southwest Gas Corp.	SJI SWX	\$53.38	6.00% 3.40%	6.00% 2.55%	7.50% 8.00%	9.66% 8.00%	6.00% 2.55%	5.71% 5.71%	65.00% 40.00%	57.00% 41.00%	69.45% 69.45%	\$0.00 \$0.00	8.86%	16.85 23.37	2.95 4.09				
WGL Holdings, Inc.	WGL	\$39.40	4.60%	4.60%	3.50%	3.89%	3.50%	5.71%	72.00%	62.00%	69.45%	\$0.00	10.36%	15.80	2.77				
												MEAN	9.58%						
												MAX MIN	10.36% 8.86%						
Projected Annual Earnings per Share		[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]	[31]	
Lamings per Share																			
Company AGL Resources Inc.	Ticker GAS	2012 \$2.32	2013 \$2.43	2014 \$2.54	2015 \$2.66	2016 \$2.78	2017 \$2.91	2018 \$3.05	2019 \$3.20	2020 \$3.36	2021 \$3.53	2022 \$3.72	2023 \$3.93	2024 \$4.15	2025 \$4.39	2026 \$4.64	2027 \$4.90	2028 \$5.18	
Atmos Energy Corp.	ATO	\$2.32 \$2.10	\$2.43	\$2.34 \$2.37	\$2.50 \$2.52	\$2.68	\$2.91	\$3.05	\$3.20 \$3.22	\$3.30 \$3.41	\$3.62	\$3.83	\$3.93 \$4.06	\$4.15	\$4.59 \$4.53	\$4.64 \$4.79	\$4.90 \$5.07	\$5.36	
Laclede Group	LG	\$2.79	\$2.91	\$3.04	\$3.17	\$3.30	\$3.44	\$3.59	\$3.75	\$3.93	\$4.13	\$4.35	\$4.59	\$4.85	\$5.12	\$5.42	\$5.73	\$6.05	
New Jersey Resources	NJR	\$2.71	\$2.78	\$2.85	\$2.92	\$2.99	\$3.07	\$3.14	\$3.24	\$3.35	\$3.49	\$3.65	\$3.84	\$4.06	\$4.29	\$4.54	\$4.80	\$5.07	
Northwest Natural Gas Piedmont Natural Gas	NWN PNY	\$2.22 \$1.66	\$2.31 \$1.72	\$2.40 \$1.78	\$2.50 \$1.85	\$2.60 \$1.91	\$2.70 \$1.98	\$2.81 \$2.06	\$2.93 \$2.14	\$3.06 \$2.23	\$3.21 \$2.34	\$3.38 \$2.45	\$3.56 \$2.58	\$3.76 \$2.73	\$3.98 \$2.89	\$4.21 \$3.05	\$4.45 \$3.23	\$4.70 \$3.41	
South Jersey Industries	SJI	\$3.03	\$3.21	\$3.40	\$3.61	\$3.83	\$4.05	\$4.30	\$2.14 \$4.55	\$2.23 \$4.82	\$2.34 \$5.11	\$2.45 \$5.40	\$2.50 \$5.71	\$2.73 \$6.04	\$6.38	\$6.75	\$3.23 \$7.13	\$3.41 \$7.54	
Southwest Gas Corp.	SWX	\$2.86	\$2.93	\$3.01	\$3.08	\$3.16	\$3.24	\$3.33	\$3.43	\$3.55	\$3.70	\$3.87	\$4.07	\$4.30	\$4.55	\$4.81	\$5.09	\$5.38	
WGL Holdings, Inc.	WGL	\$2.68	\$2.77	\$2.87	\$2.97	\$3.08	\$3.18	\$3.29	\$3.42	\$3.57	\$3.73	\$3.92	\$4.13	\$4.36	\$4.61	\$4.87	\$5.15	\$5.45	•
Projected Annual Dividend Payout Ratio			[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]	[47]	
_	T				0045		0017								0005		0007		
Company AGL Resources Inc.	Ticker GAS		2013 70.00%	2014 67.50%	2015 65.00%	2016 62.50%	2017 60.00%	2018 61.35%	2019 62.70%	2020 64.05%	2021 65.40%	2022 66.75%	2023 68.10%	2024 69.45%	2025 69.45%	2026 69.45%	2027 69.45%	2028 69.45%	•
Atmos Energy Corp.	ATO		56.00%	55.00%	54.00%	53.00%	52.00%	54.49%	56.99%	59.48%	61.97%	64.46%	66.96%	69.45%	69.45%	69.45%	69.45%	69.45%	
Laclede Group	LG		85.00%	76.75%	68.50%	60.25%	52.00%	54.49%	56.99%	59.48%	61.97%	64.46%	66.96%	69.45%	69.45%	69.45%	69.45%	69.45%	
New Jersey Resources	NJR NWN		58.00%	55.50%	53.00% 74.00%	50.50%	48.00%	51.06% 63.92%	54.13%	57.19%	60.26%	63.32%	66.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
Northwest Natural Gas Piedmont Natural Gas	PNY		85.00% 68.00%	79.50% 68.00%	74.00% 68.00%	68.50% 68.00%	63.00% 68.00%	63.92% 68.21%	64.84% 68.41%	65.76% 68.62%	66.69% 68.83%	67.61% 69.04%	68.53% 69.24%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
South Jersey Industries	SJI		65.00%	63.00%	61.00%	59.00%	57.00%	58.78%	60.56%	62.34%	64.11%	65.89%	67.67%	69.45%	69.45%	69.45%	69.45%	69.45%	
Southwest Gas Corp.	SWX		40.00%	40.25%	40.50%	40.75%	41.00%	45.06%	49.13%	53.19%	57.26%	61.32%	65.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
WGL Holdings, Inc.	WGL		72.00%	69.50%	67.00%	64.50%	62.00%	63.06%	64.13%	65.19%	66.26%	67.32%	68.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
Projected Annual Cash Flows			[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]	[64]
Company	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Terminal Value
AGL Resources Inc.	GAS		\$1.70	\$1.72	\$1.73	\$1.74	\$1.75	\$1.87	\$2.00	\$2.15	\$2.31	\$2.48	\$2.67	\$2.88	\$3.05	\$3.22	\$3.41	\$3.60	\$103.62
Atmos Energy Corp.	ATO		\$1.25	\$1.31	\$1.36	\$1.42	\$1.48	\$1.65	\$1.83	\$2.03	\$2.24	\$2.47	\$2.72	\$2.98	\$3.15	\$3.33	\$3.52	\$3.72	\$104.19
Laclede Group	LG		\$2.47	\$2.33	\$2.17	\$1.99	\$1.79	\$1.96	\$2.14	\$2.34	\$2.56	\$2.80	\$3.07	\$3.37	\$3.56	\$3.76	\$3.98	\$4.20	\$102.00
New Jersey Resources Northwest Natural Gas	NJR NWN		\$1.61 \$1.96	\$1.58 \$1.91	\$1.55 \$1.85	\$1.51 \$1.78	\$1.47 \$1.70	\$1.60 \$1.80	\$1.75 \$1.90	\$1.92 \$2.01	\$2.10 \$2.14	\$2.31 \$2.28	\$2.55 \$2.44	\$2.82 \$2.61	\$2.98 \$2.76	\$3.15 \$2.92	\$3.33 \$3.09	\$3.52 \$3.26	\$103.13 \$92.10
Piedmont Natural Gas	PNY		\$1.17	\$1.21	\$1.26	\$1.30	\$1.35	\$1.40	\$1.46	\$1.53	\$1.61	\$1.69	\$1.79	\$1.90	\$2.01	\$2.12	\$2.24	\$2.37	\$71.51
South Jersey Industries	SJI		\$2.09	\$2.14	\$2.20	\$2.26	\$2.31	\$2.53	\$2.76	\$3.01	\$3.27	\$3.56	\$3.87	\$4.19	\$4.43	\$4.69	\$4.96	\$5.24	\$127.07
Southwest Gas Corp.	SWX WGL		\$1.17 \$2.00	\$1.21 \$2.00	\$1.25 \$1.99	\$1.29 \$1.98	\$1.33 \$1.97	\$1.50 \$2.08	\$1.68	\$1.89 \$2.33	\$2.12 \$2.47	\$2.37 \$2.64	\$2.66 \$2.82	\$2.99 \$3.03	\$3.16	\$3.34 \$3.39	\$3.53 \$3.58	\$3.73	\$125.63
WGL Holdings, Inc.	WGL		\$2.00	\$2.00	\$1.99	\$1.98	\$1.97	\$Z.08	\$2.19	\$2.33	\$2.47	\$2.64	\$Z.8Z	\$3.03	\$3.20	\$3.39	\$3.58	\$3.78	\$86.06
Proiected Annual Data																			
Investor Cash Flows		[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]	[82]
Compony	Tieker	Initial Outflow	12/31/13	12/31/13	6/30/14	6/30/15	6/30/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28
Company AGL Resources Inc.	Ticker GAS	(\$46.44)	12/31/13	\$0.00	\$1.74	\$1.73	\$1.74	\$1.75	\$1.87	\$2.00	\$2.15	\$2.31	\$2.48	\$2.67	\$2.88	\$3.05	\$3.22	\$3.41	\$107.23
Atmos Energy Corp.	ATO	(\$44.74)		\$0.00	\$1.29	\$1.36	\$1.42	\$1.48	\$1.65	\$1.83	\$2.03	\$2.24	\$2.47	\$2.72	\$2.98	\$3.15	\$3.33	\$3.52	\$107.91
Laclede Group	LG NJR	(\$45.67) (\$45.15)		\$0.00 \$0.00	\$2.53 \$1.63	\$2.17 \$1.55	\$1.99 \$1.51	\$1.79 \$1.47	\$1.96 \$1.60	\$2.14 \$1.75	\$2.34 \$1.92	\$2.56 \$2.10	\$2.80 \$2.31	\$3.07 \$2.55	\$3.37 \$2.82	\$3.56 \$2.98	\$3.76 \$3.15	\$3.98 \$3.33	\$106.20 \$106.66
New Jersey Resources Northwest Natural Gas	NWN	(\$45.15) (\$42.38)		\$0.00	\$1.63 \$2.00	\$1.55 \$1.85	\$1.51 \$1.78	\$1.47 \$1.70	\$1.60 \$1.80	\$1.75 \$1.90	\$1.92 \$2.01	\$2.10 \$2.14	\$2.31 \$2.28	\$2.55 \$2.44	\$2.82 \$2.61	\$2.98 \$2.76	\$3.15 \$2.92	\$3.33 \$3.09	\$106.66 \$95.37
Piedmont Natural Gas	PNY	(\$32.82)		\$0.00	\$1.19	\$1.26	\$1.30	\$1.35	\$1.40	\$1.46	\$1.53	\$1.61	\$1.69	\$1.79	\$1.90	\$2.01	\$2.52	\$2.24	\$73.88
South Jersey Industries	SJI	(\$55.64)		\$0.00	\$2.15	\$2.20	\$2.26	\$2.31	\$2.53	\$2.76	\$3.01	\$3.27	\$3.56	\$3.87	\$4.19	\$4.43	\$4.69	\$4.96	\$132.30
Southwest Gas Corp.	SWX	(\$53.38)		\$0.00	\$1.19	\$1.25	\$1.29	\$1.33	\$1.50	\$1.68	\$1.89	\$2.12	\$2.37	\$2.66	\$2.99	\$3.16	\$3.34	\$3.53	\$129.36
WGL Holdings, Inc.	WGL	(\$39.40)		\$0.00	\$2.03	\$1.99	\$1.98	\$1.97	\$2.08	\$2.19	\$2.33	\$2.47	\$2.64	\$2.82	\$3.03	\$3.20	\$3.39	\$3.58	\$89.84

Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price High Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]				
		Stock		Grow	th Rate Est Value	Retention	High	Long-Term	ŀ	Payout Rati	0	Iterative	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks	First Call	Line	Growth	Growth	Growth	2013	2017	2024	Proof	IRR		PEG Ratio				
AGL Resources Inc.	GAS ATO	\$46.44	5.00%	NA 7 75%	8.00%	4.66%	8.00%	5.71%	70.00%	60.00%	69.45%	\$0.00 \$0.00	10.38%	15.74	2.76				
Atmos Energy Corp. Laclede Group	LG	\$44.74 \$45.67	6.50% 4.30%	7.75% 4.90%	7.50% 6.00%	6.30% 4.82%	7.75% 6.00%	5.71% 5.71%	56.00% 85.00%	52.00% 52.00%	69.45% 69.45%	\$0.00 \$0.00	9.89% 10.63%	17.57 14.93	3.08 2.61				
New Jersey Resources	NJR	\$45.15	4.00%	2.50%	5.50%	7.16%	7.16%	5.71%	58.00%	48.00%	69.45%	(\$0.00)	10.74%	14.60	2.55				
Northwest Natural Gas	NWN	\$42.38	4.00%	4.00%	4.50%	4.46%	4.50%	5.71%	85.00%	63.00%	69.45%	\$0.00	9.60%	18.88	3.30				
Piedmont Natural Gas	PNY	\$32.82	5.00%	4.00%	4.00%	3.64%	5.00%	5.71%	68.00%	68.00%	69.45%	(\$0.00)	9.59%	18.92	3.31				
South Jersey Industries Southwest Gas Corp.	SJI SWX	\$55.64 \$53.38	6.00% 3.40%	6.00% 2.55%	7.50% 8.00%	9.66% 8.00%	9.66% 8.00%	5.71% 5.71%	65.00% 40.00%	57.00% 41.00%	69.45% 69.45%	(\$0.00) (\$0.00)	11.32% 10.33%	13.11 15.90	2.29 2.78				
WGL Holdings, Inc.	WGL	\$39.40	4.60%	4.60%	3.50%	3.89%	4.60%	5.71%	72.00%	62.00%	69.45%	\$0.00	10.33%	14.58	2.78				
TOE Holdings, mo.												MEAN	10.36%						
												MAX	11.32% 9.59%						
Projected Annual Earnings per Share		[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]	[31]	
Earnings per Snare																			•
Company	Ticker	2012 \$2.32	2013	2014	2015 \$2.92	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
AGL Resources Inc. Atmos Energy Corp.	GAS ATO	\$2.32 \$2.10	\$2.51 \$2.26	\$2.71 \$2.44	\$2.92 \$2.63	\$3.16 \$2.83	\$3.41 \$3.05	\$3.68 \$3.29	\$3.96 \$3.53	\$4.25 \$3.78	\$4.54 \$4.03	\$4.83 \$4.29	\$5.13 \$4.55	\$5.42 \$4.81	\$5.73 \$5.09	\$6.06 \$5.38	\$6.41 \$5.68	\$6.77 \$6.01	
Laclede Group	LG	\$2.79	\$2.96	\$3.13	\$3.32	\$3.52	\$3.73	\$3.96	\$4.19	\$4.44	\$4.70	\$4.97	\$5.26	\$5.56	\$5.88	\$6.21	\$6.57	\$6.95	
New Jersey Resources	NJR	\$2.71	\$2.90	\$3.11	\$3.34	\$3.57	\$3.83	\$4.10	\$4.39	\$4.68	\$4.98	\$5.29	\$5.61	\$5.93	\$6.27	\$6.62	\$7.00	\$7.40	
Northwest Natural Gas	NWN	\$2.22	\$2.32	\$2.42	\$2.53	\$2.65	\$2.77	\$2.89	\$3.03	\$3.18	\$3.34	\$3.51	\$3.71	\$3.92	\$4.14	\$4.38	\$4.63	\$4.90	
Piedmont Natural Gas South Jersey Industries	PNY SJI	\$1.66 \$3.03	\$1.74 \$3.32	\$1.83 \$3.64	\$1.92 \$4.00	\$2.02 \$4.38	\$2.12 \$4.81	\$2.22 \$5.27	\$2.34 \$5.74	\$2.46 \$6.22	\$2.59 \$6.70	\$2.73 \$7.17	\$2.89 \$7.63	\$3.05 \$8.07	\$3.23 \$8.53	\$3.41 \$9.01	\$3.61 \$9.53	\$3.81 \$10.07	
Southwest Gas Corp.	SWX	\$2.86	\$3.09	\$3.84 \$3.34	\$4.00 \$3.60	\$4.38 \$3.89	\$4.81	\$4.54	\$4.89	\$5.24	\$5.60	\$5.96	\$6.32	\$6.69	\$0.53 \$7.07	\$9.01	\$9.53 \$7.90	\$8.35	
WGL Holdings, Inc.	WGL	\$2.68	\$2.80	\$2.93	\$3.07	\$3.21	\$3.36	\$3.51	\$3.68	\$3.86	\$4.06	\$4.28	\$4.51	\$4.77	\$5.04	\$5.33	\$5.64	\$5.96	
Projected Annual Dividend Payout Ratio			[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]	[47]	
Dividend Payout Natio					[34]				[30]					[43]	[44]				
Company	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
AGL Resources Inc. Atmos Energy Corp.	GAS ATO		70.00% 56.00%	67.50% 55.00%	65.00% 54.00%	62.50% 53.00%	60.00% 52.00%	61.35% 54.49%	62.70% 56.99%	64.05% 59.48%	65.40% 61.97%	66.75% 64.46%	68.10% 66.96%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
Laclede Group	LG		85.00%	76.75%	68.50%	60.25%	52.00%	54.49%	56.99%	59.48%	61.97%	64.46%	66.96%	69.45%	69.45%	69.45%	69.45%	69.45%	
New Jersey Resources	NJR		58.00%	55.50%	53.00%	50.50%	48.00%	51.06%	54.13%	57.19%	60.26%	63.32%	66.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
Northwest Natural Gas	NWN		85.00%	79.50%	74.00%	68.50%	63.00%	63.92%	64.84%	65.76%	66.69%	67.61%	68.53%	69.45%	69.45%	69.45%	69.45%	69.45%	
Piedmont Natural Gas South Jersey Industries	PNY SJI		68.00% 65.00%	68.00% 63.00%	68.00% 61.00%	68.00% 59.00%	68.00% 57.00%	68.21% 58.78%	68.41% 60.56%	68.62% 62.34%	68.83% 64.11%	69.04% 65.89%	69.24% 67.67%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
Southwest Gas Corp.	SWX		40.00%	40.25%	40.50%	40.75%	41.00%	45.06%	49.13%	53.19%	57.26%	61.32%	65.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
WGL Holdings, Inc.	WGL		72.00%	69.50%	67.00%	64.50%	62.00%	63.06%	64.13%	65.19%	66.26%	67.32%	68.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
Projected Annual			[40]	[40]	15.01	1541	1501	(50)	15.41	(55)	1501	1071	1501	1501	1001	1041	[00]	1001	10.41
Cash Flows			[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]	[64] Terminal
Company	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Value
AGL Resources Inc.	GAS		\$1.75	\$1.83	\$1.90	\$1.97	\$2.05	\$2.26	\$2.48	\$2.72	\$2.97	\$3.23	\$3.49	\$3.77	\$3.98	\$4.21	\$4.45	\$4.70	\$106.58
Atmos Energy Corp. Laclede Group	ATO LG		\$1.27 \$2.51	\$1.34 \$2.41	\$1.42 \$2.28	\$1.50 \$2.12	\$1.59 \$1.94	\$1.79 \$2.16	\$2.01 \$2.39	\$2.25 \$2.64	\$2.50 \$2.91	\$2.77 \$3.21	\$3.05 \$3.52	\$3.34 \$3.86	\$3.53 \$4.08	\$3.73 \$4.32	\$3.95 \$4.56	\$4.17 \$4.82	\$105.59 \$103.68
New Jersey Resources	NJR		\$1.68	\$1.73	\$1.77	\$1.80	\$1.84	\$2.10	\$2.38	\$2.68	\$3.00	\$3.35	\$3.72	\$4.12	\$4.35	\$4.60	\$4.86	\$5.14	\$108.03
Northwest Natural Gas	NWN		\$1.97	\$1.93	\$1.87	\$1.81	\$1.74	\$1.85	\$1.96	\$2.09	\$2.23	\$2.38	\$2.54	\$2.72	\$2.88	\$3.04	\$3.22	\$3.40	\$92.42
Piedmont Natural Gas	PNY		\$1.19	\$1.24	\$1.31	\$1.37	\$1.44	\$1.52	\$1.60	\$1.69	\$1.78	\$1.89	\$2.00	\$2.12	\$2.24	\$2.37	\$2.50	\$2.65	\$72.15
South Jersey Industries Southwest Gas Corp.	SJI SWX		\$2.16 \$1.24	\$2.30 \$1.34	\$2.44 \$1.46	\$2.59 \$1.59	\$2.74 \$1.72	\$3.10 \$2.05	\$3.48 \$2.40	\$3.88 \$2.79	\$4.30 \$3.21	\$4.73 \$3.66	\$5.16 \$4.14	\$5.60 \$4.64	\$5.92 \$4.91	\$6.26 \$5.19	\$6.62 \$5.49	\$7.00 \$5.80	\$132.03 \$132.79
WGL Holdings, Inc.	WGL		\$2.02	\$2.04	\$2.05	\$2.07	\$2.08	\$2.03 \$2.21	\$2.40 \$2.36	\$2.52	\$2.69	\$2.88	\$3.09	\$3.31	\$3.50	\$3.70	\$3.91	\$3.80 \$4.14	\$86.90
Projected Annual Data																			
Investor Cash Flows		[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]	[82]
Company	Ticker	Initial Outflow	12/31/13	12/31/13	6/30/14	6/30/15	6/30/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28
AGL Resources Inc.	GAS	(\$46.44)		\$0.00	\$1.82	\$1.90	\$1.97	\$2.05	\$2.26	\$2.48	\$2.72	\$2.97	\$3.23	\$3.49	\$3.77	\$3.98	\$4.21	\$4.45	\$111.28
Atmos Energy Corp.	ATO	(\$44.74)		\$0.00	\$1.32	\$1.42	\$1.50	\$1.59	\$1.79	\$2.01	\$2.25	\$2.50	\$2.77	\$3.05	\$3.34	\$3.53	\$3.73	\$3.95	\$109.76
Laclede Group	LG NJR	(\$45.67)		\$0.00 \$0.00	\$2.59 \$1.74	\$2.28 \$1.77	\$2.12 \$1.80	\$1.94 \$1.84	\$2.16 \$2.10	\$2.39 \$2.38	\$2.64 \$2.68	\$2.91 \$3.00	\$3.21 \$3.35	\$3.52 \$3.72	\$3.86 \$4.12	\$4.08 \$4.35	\$4.32 \$4.60	\$4.56 \$4.86	\$108.50
New Jersey Resources Northwest Natural Gas	NJR NWN	(\$45.15) (\$42.38)		\$0.00 \$0.00	\$1.74 \$2.02	\$1.77 \$1.87	\$1.80 \$1.81	\$1.84 \$1.74	\$2.10 \$1.85	\$2.38 \$1.96	\$2.68 \$2.09	\$3.00 \$2.23	\$3.35 \$2.38	\$3.72 \$2.54	\$4.12 \$2.72	\$4.35 \$2.88	\$4.60 \$3.04	\$4.86 \$3.22	\$113.17 \$95.82
Piedmont Natural Gas	PNY	(\$42.36) (\$32.82)		\$0.00	\$2.02 \$1.21	\$1.87	\$1.81	\$1.74 \$1.44	\$1.65	\$1.90	\$2.09	\$2.23 \$1.78	\$2.30 \$1.89	\$2.00	\$2.12	\$2.00 \$2.24	\$3.04 \$2.37	\$3.22 \$2.50	\$95.82 \$74.80
South Jersey Industries	SJI	(\$55.64)		\$0.00	\$2.26	\$2.44	\$2.59	\$2.74	\$3.10	\$3.48	\$3.88	\$4.30	\$4.73	\$5.16	\$5.60	\$5.92	\$6.26	\$6.62	\$139.02
Southwest Gas Corp.	SWX	(\$53.38)		\$0.00	\$1.28	\$1.46	\$1.59	\$1.72	\$2.05	\$2.40	\$2.79	\$3.21	\$3.66	\$4.14	\$4.64	\$4.91	\$5.19	\$5.49	\$138.59
WGL Holdings, Inc.	WGL	(\$39.40)		\$0.00	\$2.06	\$2.05	\$2.07	\$2.08	\$2.21	\$2.36	\$2.52	\$2.69	\$2.88	\$3.09	\$3.31	\$3.50	\$3.70	\$3.91	\$91.04

Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price Average Growth Rate Estimate in First Stage

Inputs		[1] Stock	[2]	[3]	[4] th Rate Est	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13] Terminal	[14] Terminal				
		STOCK			Value	Retention		Long-Term	1	Payout Rati	0	Iterative	Solution	reminal	rerminal				
Company	Ticker	Price	Zacks	First Call	Line	Growth	Average	Growth	2013	2017	2024	Proof	IRR		PEG Ratio				
AGL Resources Inc.	GAS ATO	\$46.07	5.00%	NA 7 75%	8.00%	4.66%	5.89%	5.71%	70.00%	60.00%	69.45%	\$0.00 (\$0.00)	9.76%	18.13	3.17				
Atmos Energy Corp. Laclede Group	LG	\$43.26 \$45.49	6.50% 4.30%	7.75% 4.90%	7.50% 6.00%	6.30% 4.82%	7.01% 5.00%	5.71% 5.71%	56.00% 85.00%	52.00% 52.00%	69.45% 69.45%	(\$0.00) (\$0.00)	9.81% 10.31%	17.91 15.96	3.13 2.79				
New Jersey Resources	NJR	\$44.52	4.00%	2.50%	5.50%	7.16%	4.79%	5.71%	58.00%	48.00%	69.45%	(\$0.00)	10.04%	16.98	2.97				
Northwest Natural Gas	NWN	\$42.14	4.00%	4.00%	4.50%	4.46%	4.24%	5.71%	85.00%	63.00%	69.45%	\$0.00	9.55%	19.13	3.35				
Piedmont Natural Gas	PNY	\$32.93	5.00%	4.00%	4.00%	3.64%	4.16%	5.71%	68.00%	68.00%	69.45%	(\$0.00)	9.34%	20.22	3.54				
South Jersey Industries	SJI	\$57.35	6.00%	6.00%	7.50%	9.66%	7.29%	5.71%	65.00%	57.00%	69.45%	(\$0.00)	10.35%	15.85	2.77				
Southwest Gas Corp. WGL Holdings, Inc.	SWX WGL	\$51.42 \$41.66	3.40% 4.60%	2.55% 4.60%	8.00% 3.50%	8.00% 3.89%	5.49% 4.15%	5.71% 5.71%	40.00% 72.00%	41.00% 62.00%	69.45% 69.45%	(\$0.00) (\$0.00)	9.74% 10.32%	18.25 15.95	3.19 2.79				
WOL Holdings, inc.		ψ11.00	1.0070	1.0070	0.0070	0.0070	1.1070	0.7 170	12.0070	02.0070	00.1070	MEAN	9.91%	10.00	2.70				
												MAX MIN	10.35% 9.34%						
Projected Annual Earnings per Share		[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]	[31]	
Earnings per Snare																			-
Company	Ticker	2012 \$2.32	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 \$4.58	2025	2026	2027	2028	-
AGL Resources Inc. Atmos Energy Corp.	GAS ATO	\$2.32 \$2.10	\$2.46 \$2.25	\$2.60 \$2.40	\$2.75 \$2.57	\$2.92 \$2.75	\$3.09 \$2.95	\$3.27 \$3.15	\$3.46 \$3.37	\$3.66 \$3.59	\$3.88 \$3.82	\$4.10 \$4.05	\$4.34 \$4.29	\$4.58 \$4.54	\$4.84 \$4.80	\$5.12 \$5.07	\$5.41 \$5.36	\$5.72 \$5.67	
Laclede Group	LG	\$2.79	\$2.93	\$3.08	\$3.23	\$3.39	\$3.56	\$3.74	\$3.93	\$4.14	\$4.36	\$4.60	\$4.86	\$5.13	\$5.43	\$5.74	\$6.06	\$6.41	
New Jersey Resources	NJR	\$2.71	\$2.84	\$2.98	\$3.12	\$3.27	\$3.42	\$3.59	\$3.77	\$3.96	\$4.17	\$4.39	\$4.63	\$4.90	\$5.18	\$5.48	\$5.79	\$6.12	
Northwest Natural Gas	NWN	\$2.22	\$2.31	\$2.41	\$2.51	\$2.62	\$2.73	\$2.85	\$2.98	\$3.12	\$3.27	\$3.44	\$3.63	\$3.84	\$4.06	\$4.29	\$4.53	\$4.79	
Piedmont Natural Gas	PNY SJI	\$1.66 \$3.03	\$1.73 \$3.25	\$1.80	\$1.88 \$3.74	\$1.95 \$4.02	\$2.04 \$4.31	\$2.12 \$4.62	\$2.21 \$4.95	\$2.32 \$5.28	\$2.43 \$5.62	\$2.56 \$5.98	\$2.70 \$6.33	\$2.85 \$6.69	\$3.01 \$7.08	\$3.19 \$7.48	\$3.37 \$7.91	\$3.56	
South Jersey Industries Southwest Gas Corp.	SWX	\$2.86	\$3.02	\$3.49 \$3.18	\$3.74 \$3.36	\$4.02 \$3.54	\$3.74	\$4.62 \$3.94	\$4.95 \$4.16	\$4.39	\$3.62 \$4.64	\$3.90 \$4.90	\$5.18	\$5.47	\$5.78	\$6.11	\$6.46	\$8.36 \$6.83	
WGL Holdings, Inc.	WGL	\$2.68	\$2.79	\$2.91	\$3.03	\$3.15	\$3.28	\$3.42	\$3.57	\$3.74	\$3.92	\$4.13	\$4.35	\$4.60	\$4.86	\$5.14	\$5.43	\$5.74	_
Projected Annual Dividend Payout Ratio			[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]	[47]	
																			-
Company	Ticker		2013 70.00%	2014 67.50%	2015	2016 62.50%	2017 60.00%	2018 61.35%	2019	2020 64.05%	2021	2022 66.75%	2023 68.10%	2024	2025 69.45%	2026 69.45%	2027 69.45%	2028 69.45%	-
AGL Resources Inc. Atmos Energy Corp.	GAS ATO		70.00% 56.00%	67.50% 55.00%	65.00% 54.00%	62.50% 53.00%	52.00%	61.35% 54.49%	62.70% 56.99%	64.05% 59.48%	65.40% 61.97%	64.46%	66.96%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
Laclede Group	LG		85.00%	76.75%	68.50%	60.25%	52.00%	54.49%	56.99%	59.48%	61.97%	64.46%	66.96%	69.45%	69.45%	69.45%	69.45%	69.45%	
New Jersey Resources	NJR		58.00%	55.50%	53.00%	50.50%	48.00%	51.06%	54.13%	57.19%	60.26%	63.32%	66.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
Northwest Natural Gas	NWN		85.00%	79.50%	74.00%	68.50%	63.00%	63.92%	64.84%	65.76%	66.69%	67.61%	68.53%	69.45%	69.45%	69.45%	69.45%	69.45%	
Piedmont Natural Gas South Jersey Industries	PNY SJI		68.00% 65.00%	68.00% 63.00%	68.00% 61.00%	68.00% 59.00%	68.00% 57.00%	68.21% 58.78%	68.41% 60.56%	68.62% 62.34%	68.83% 64.11%	69.04% 65.89%	69.24% 67.67%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
Southwest Gas Corp.	SWX		40.00%	40.25%	40.50%	40.75%	41.00%	45.06%	49.13%	53.19%	57.26%	61.32%	65.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
WGL Holdings, Inc.	WGL		72.00%	69.50%	67.00%	64.50%	62.00%	63.06%	64.13%	65.19%	66.26%	67.32%	68.39%	69.45%	69.45%	69.45%	69.45%	69.45%	-
Projected Annual Cash Flows			[48]	[49]	[50]	[51]	1501	(50)	[54]	[55]	1501	[57]	1501	[59]	[60]	1041	[00]	[63]	[64]
Casil Flows			[40]	[49]	[50]	្រា	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]	Terminal
Company	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Value
AGL Resources Inc.	GAS ATO		\$1.72 \$1.26	\$1.76 \$1.32	\$1.79 \$1.39	\$1.82 \$1.46	\$1.85 \$1.53	\$2.01 \$1.72	\$2.17 \$1.92	\$2.35 \$2.14	\$2.53 \$2.37	\$2.74 \$2.61	\$2.95 \$2.87	\$3.18 \$3.15	\$3.36 \$3.33	\$3.56 \$3.52	\$3.76 \$3.72	\$3.97 \$3.94	\$103.77 \$101.52
Atmos Energy Corp. Laclede Group	LG		\$2.49	\$2.36	\$2.21	\$1.46	\$1.85	\$2.04	\$2.24	\$2.14 \$2.46	\$2.37	\$2.96	\$3.25	\$3.56	\$3.33 \$3.77	\$3.98	\$4.21	\$3.94 \$4.45	\$101.52
New Jersey Resources	NJR		\$1.65	\$1.65	\$1.65	\$1.65	\$1.64	\$1.83	\$2.04	\$2.26	\$2.51	\$2.78	\$3.08	\$3.40	\$3.60	\$3.80	\$4.02	\$4.25	\$103.88
Northwest Natural Gas	NWN		\$1.97	\$1.92	\$1.86	\$1.80	\$1.72	\$1.82	\$1.93	\$2.05	\$2.18	\$2.33	\$2.49	\$2.67	\$2.82	\$2.98	\$3.15	\$3.33	\$91.71
Piedmont Natural Gas	PNY		\$1.18	\$1.22	\$1.28	\$1.33	\$1.38	\$1.45	\$1.51	\$1.59	\$1.67	\$1.77	\$1.87	\$1.98	\$2.09	\$2.21	\$2.34	\$2.47	\$72.01
South Jersey Industries Southwest Gas Corp.	SJI SWX		\$2.11 \$1.21	\$2.20 \$1.28	\$2.28 \$1.36	\$2.37 \$1.44	\$2.46 \$1.53	\$2.72 \$1.78	\$3.00 \$2.04	\$3.29 \$2.34	\$3.61 \$2.65	\$3.94 \$3.00	\$4.29 \$3.38	\$4.65 \$3.80	\$4.92 \$4.02	\$5.20 \$4.25	\$5.49 \$4.49	\$5.81 \$4.75	\$132.50 \$124.68
WGL Holdings, Inc.	WGL		\$2.01	\$2.02	\$2.03	\$2.03	\$2.04	\$2.16	\$2.29	\$2.44	\$2.60	\$2.78	\$2.97	\$3.19	\$3.38	\$3.57	\$3.77	\$3.99	\$91.61
Projected Annual Data																			
Investor Cash Flows		[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]	[82]
Company	Ticker	Initial Outflow	12/31/13	12/31/13	6/30/14	6/30/15	6/30/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28
AGL Resources Inc.	GAS	(\$46.07)		\$0.00	\$1.77	\$1.79	\$1.82	\$1.85	\$2.01	\$2.17	\$2.35	\$2.53	\$2.74	\$2.95	\$3.18	\$3.36	\$3.56	\$3.76	\$107.74
Atmos Energy Corp.	ATO	(\$43.26)		\$0.00	\$1.30	\$1.39	\$1.46	\$1.53	\$1.72	\$1.92	\$2.14	\$2.37	\$2.61	\$2.87	\$3.15	\$3.33	\$3.52	\$3.72	\$105.46
Laclede Group New Jersey Resources	LG NJR	(\$45.49) (\$44.52)		\$0.00 \$0.00	\$2.55 \$1.69	\$2.21 \$1.65	\$2.04 \$1.65	\$1.85 \$1.64	\$2.04 \$1.83	\$2.24 \$2.04	\$2.46 \$2.26	\$2.70 \$2.51	\$2.96 \$2.78	\$3.25 \$3.08	\$3.56 \$3.40	\$3.77 \$3.60	\$3.98 \$3.80	\$4.21 \$4.02	\$106.72 \$108.13
Northwest Natural Gas	NWN	(\$44.52) (\$42.14)		\$0.00	\$1.69	\$1.65	\$1.65	\$1.64 \$1.72	\$1.83 \$1.82	\$2.04 \$1.93	\$2.26 \$2.05	\$2.51 \$2.18	\$2.78	\$3.08 \$2.49	\$3.40 \$2.67	\$3.60 \$2.82	\$3.80 \$2.98	\$4.02 \$3.15	\$95.04
Piedmont Natural Gas	PNY	(\$32.93)		\$0.00	\$1.20	\$1.28	\$1.33	\$1.38	\$1.45	\$1.51	\$1.59	\$1.67	\$1.77	\$1.87	\$1.98	\$2.02	\$2.21	\$2.34	\$74.48
South Jersey Industries	SJI	(\$57.35)		\$0.00	\$2.19	\$2.28	\$2.37	\$2.46	\$2.72	\$3.00	\$3.29	\$3.61	\$3.94	\$4.29	\$4.65	\$4.92	\$5.20	\$5.49	\$138.31
Southwest Gas Corp.	SWX	(\$51.42)		\$0.00	\$1.24	\$1.36	\$1.44	\$1.53	\$1.78	\$2.04	\$2.34	\$2.65	\$3.00	\$3.38	\$3.80	\$4.02	\$4.25	\$4.49	\$129.43
WGL Holdings, Inc.	WGL	(\$41.66)		\$0.00	\$2.05	\$2.03	\$2.03	\$2.04	\$2.16	\$2.29	\$2.44	\$2.60	\$2.78	\$2.97	\$3.19	\$3.38	\$3.57	\$3.77	\$95.60

Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price Low Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13] Terminal	[14] Terminal				
		Stock			th Rate Est Value	Retention	Low	Long-Term	F	Payout Ratio	5	Iterative \$	Solution	reminal	Terminal				
	Ticker	Price	Zacks	First Call	Line	Growth	Growth	Growth	2013	2017	2024	Proof	IRR		PEG Ratio				
AGL Resources Inc. Atmos Energy Corp.	GAS ATO	\$46.07 \$43.26	5.00% 6.50%	NA 7.75%	8.00% 7.50%	4.66% 6.30%	4.66% 6.30%	5.71% 5.71%	70.00% 56.00%	60.00% 52.00%	69.45% 69.45%	(\$0.00) (\$0.00)	9.42% 9.61%	19.82 18.83	3.47 3.30				
Laclede Group	LG	\$45.49	4.30%	4.90%	6.00%	4.82%	4.30%	5.71%	85.00%	52.00%	69.45%	\$0.00	10.09%	16.78	2.94				
New Jersey Resources	NJR	\$44.52	4.00%	2.50%	5.50%	7.16%	2.50%	5.71%	58.00%	48.00%	69.45%	\$0.00	9.38%	20.05	3.51				
Northwest Natural Gas	NWN	\$42.14	4.00%	4.00%	4.50%	4.46%	4.00%	5.71%	85.00%	63.00%	69.45%	\$0.00	9.48%	19.48	3.41				
Piedmont Natural Gas South Jersey Industries	PNY SJI	\$32.93 \$57.35	5.00% 6.00%	4.00% 6.00%	4.00% 7.50%	3.64% 9.66%	3.64% 6.00%	5.71% 5.71%	68.00% 65.00%	68.00% 57.00%	69.45% 69.45%	\$0.00 \$0.00	9.20% 9.94%	21.03 17.36	3.68 3.04				
Southwest Gas Corp.	SWX	\$51.42	3.40%	2.55%	8.00%	9.00% 8.00%	2.55%	5.71%	40.00%	41.00%	69.45% 69.45%	\$0.00	9.94% 8.97%	22.55	3.04				
WGL Holdings, Inc.	WGL	\$41.66	4.60%	4.60%	3.50%	3.89%	3.50%	5.71%	72.00%	62.00%	69.45%	\$0.00	10.10%	16.73	2.93				
												MEAN	9.58%						
												MAX MIN	10.10% 8.97%						
Projected Annual		[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]	[31]	
Earnings per Share		[15]	[16]	[17]	[18]	[19]	[20]	[21]	22	[23]	[24]	[25]	[26]	27	[28]	[29]	[30]	[31]	-
	Ticker	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	_
AGL Resources Inc.	GAS ATO	\$2.32 \$2.10	\$2.43 \$2.23	\$2.54 \$2.37	\$2.66 \$2.52	\$2.78 \$2.68	\$2.91 \$2.85	\$3.05 \$3.03	\$3.20 \$3.22	\$3.36 \$3.41	\$3.53 \$3.62	\$3.72 \$3.83	\$3.93 \$4.06	\$4.15 \$4.29	\$4.39 \$4.53	\$4.64 \$4.79	\$4.90 \$5.07	\$5.18 \$5.36	
Atmos Energy Corp. Laclede Group	LG	\$2.79	\$2.23	\$3.04	\$3.17	\$2.00	\$2.65	\$3.59	\$3.75	\$3.93	\$3.62 \$4.13	\$3.65 \$4.35	\$4.06 \$4.59	\$4.29 \$4.85	\$4.53 \$5.12	\$4.79 \$5.42	\$5.73	\$6.05	
New Jersey Resources	NJR	\$2.71	\$2.78	\$2.85	\$2.92	\$2.99	\$3.07	\$3.14	\$3.24	\$3.35	\$3.49	\$3.65	\$3.84	\$4.06	\$4.29	\$4.54	\$4.80	\$5.07	
Northwest Natural Gas	NWN	\$2.22	\$2.31	\$2.40	\$2.50	\$2.60	\$2.70	\$2.81	\$2.93	\$3.06	\$3.21	\$3.38	\$3.56	\$3.76	\$3.98	\$4.21	\$4.45	\$4.70	
Piedmont Natural Gas South Jersey Industries	PNY SJI	\$1.66 \$3.03	\$1.72 \$3.21	\$1.78 \$3.40	\$1.85 \$3.61	\$1.91 \$3.83	\$1.98 \$4.05	\$2.06 \$4.30	\$2.14 \$4.55	\$2.23 \$4.82	\$2.34 \$5.11	\$2.45 \$5.40	\$2.58 \$5.71	\$2.73 \$6.04	\$2.89 \$6.38	\$3.05 \$6.75	\$3.23 \$7.13	\$3.41 \$7.54	
Southwest Gas Corp.	SWX	\$2.86	\$2.93	\$3.40	\$3.08	\$3.03 \$3.16	\$3.24	\$4.30 \$3.33	\$3.43	\$4.62 \$3.55	\$3.70	\$3.87	\$4.07	\$4.30	\$4.55	\$4.81	\$5.09	\$7.54 \$5.38	
WGL Holdings, Inc.	WGL	\$2.68	\$2.77	\$2.87	\$2.97	\$3.08	\$3.18	\$3.29	\$3.42	\$3.57	\$3.73	\$3.92	\$4.13	\$4.36	\$4.61	\$4.87	\$5.15	\$5.45	_
Projected Annual			10.03	10.01	10.43	10.51	10.01	1077	10.01	10.01									
Dividend Payout Ratio			[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]	[47]	-
	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	_
AGL Resources Inc. Atmos Energy Corp.	GAS ATO		70.00% 56.00%	67.50% 55.00%	65.00% 54.00%	62.50% 53.00%	60.00% 52.00%	61.35% 54.49%	62.70% 56.99%	64.05% 59.48%	65.40% 61.97%	66.75% 64.46%	68.10% 66.96%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
Laclede Group	LG		85.00%	55.00% 76.75%	68.50%	60.25%	52.00%	54.49% 54.49%	56.99%	59.48%	61.97%	64.46%	66.96%	69.45% 69.45%	69.45% 69.45%	69.45%	69.45%	69.45% 69.45%	
New Jersey Resources	NJR		58.00%	55.50%	53.00%	50.50%	48.00%	51.06%	54.13%	57.19%	60.26%	63.32%	66.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
Northwest Natural Gas	NWN		85.00%	79.50%	74.00%	68.50%	63.00%	63.92%	64.84%	65.76%	66.69%	67.61%	68.53%	69.45%	69.45%	69.45%	69.45%	69.45%	
Piedmont Natural Gas South Jersey Industries	PNY SJI		68.00% 65.00%	68.00% 63.00%	68.00% 61.00%	68.00% 59.00%	68.00% 57.00%	68.21% 58.78%	68.41% 60.56%	68.62% 62.34%	68.83% 64.11%	69.04% 65.89%	69.24% 67.67%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
Southwest Gas Corp.	SWX		40.00%	40.25%	40.50%	40.75%	41.00%	45.06%	49.13%	53.19%	57.26%	61.32%	65.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
WGL Holdings, Inc.	WGL		72.00%	69.50%	67.00%	64.50%	62.00%	63.06%	64.13%	65.19%	66.26%	67.32%	68.39%	69.45%	69.45%	69.45%	69.45%	69.45%	-
Projected Annual																			
Cash Flows			[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]	[64] Terminal
	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Value
AGL Resources Inc.	GAS		\$1.70	\$1.72	\$1.73	\$1.74	\$1.75	\$1.87	\$2.00	\$2.15	\$2.31	\$2.48	\$2.67	\$2.88	\$3.05	\$3.22	\$3.41	\$3.60	\$102.79
Atmos Energy Corp. Laclede Group	ATO LG		\$1.25 \$2.47	\$1.31 \$2.33	\$1.36 \$2.17	\$1.42 \$1.99	\$1.48 \$1.79	\$1.65 \$1.96	\$1.83 \$2.14	\$2.03 \$2.34	\$2.24 \$2.56	\$2.47 \$2.80	\$2.72 \$3.07	\$2.98 \$3.37	\$3.15 \$3.56	\$3.33 \$3.76	\$3.52 \$3.98	\$3.72 \$4.20	\$100.85 \$101.60
New Jersey Resources	NJR		\$1.61	\$1.58	\$1.55	\$1.51	\$1.47	\$1.60	\$1.75	\$1.92	\$2.10	\$2.31	\$2.55	\$2.82	\$2.98	\$3.15	\$3.33	\$3.52	\$101.71
Northwest Natural Gas	NWN		\$1.96	\$1.91	\$1.85	\$1.78	\$1.70	\$1.80	\$1.90	\$2.01	\$2.14	\$2.28	\$2.44	\$2.61	\$2.76	\$2.92	\$3.09	\$3.26	\$91.56
Piedmont Natural Gas	PNY		\$1.17	\$1.21	\$1.26	\$1.30	\$1.35	\$1.40	\$1.46	\$1.53	\$1.61	\$1.69	\$1.79	\$1.90	\$2.01	\$2.12	\$2.24	\$2.37	\$71.77
South Jersey Industries Southwest Gas Corp.	SJI SWX		\$2.09 \$1.17	\$2.14 \$1.21	\$2.20 \$1.25	\$2.26 \$1.29	\$2.31 \$1.33	\$2.53 \$1.50	\$2.76 \$1.68	\$3.01 \$1.89	\$3.27 \$2.12	\$3.56 \$2.37	\$3.87 \$2.66	\$4.19 \$2.99	\$4.43 \$3.16	\$4.69 \$3.34	\$4.96 \$3.53	\$5.24 \$3.73	\$130.91 \$121.21
WGL Holdings, Inc.	WGL		\$2.00	\$2.00	\$1.25	\$1.98	\$1.97	\$2.08	\$2.19	\$2.33	\$2.47	\$2.64	\$2.82	\$3.03	\$3.20	\$3.34 \$3.39	\$3.53 \$3.58	\$3.78	\$91.13
																			_
Projected Annual Data																			
Investor Cash Flows		[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]	[82]
Company	Ticker	Initial Outflow	12/31/13	12/31/13	6/30/14	6/30/15	6/30/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28
AGL Resources Inc.	GAS	(\$46.07)		\$0.00	\$1.74	\$1.73	\$1.74	\$1.75	\$1.87	\$2.00	\$2.15	\$2.31	\$2.48	\$2.67	\$2.88	\$3.05	\$3.22	\$3.41	\$106.39
Atmos Energy Corp.	ATO	(\$43.26)		\$0.00	\$1.29	\$1.36	\$1.42	\$1.48	\$1.65	\$1.83	\$2.03	\$2.24	\$2.47	\$2.72	\$2.98	\$3.15	\$3.33	\$3.52	\$104.57
Laclede Group New Jersey Resources	LG NJR	(\$45.49) (\$44.52)		\$0.00 \$0.00	\$2.53 \$1.63	\$2.17 \$1.55	\$1.99 \$1.51	\$1.79 \$1.47	\$1.96 \$1.60	\$2.14 \$1.75	\$2.34 \$1.92	\$2.56 \$2.10	\$2.80 \$2.31	\$3.07 \$2.55	\$3.37 \$2.82	\$3.56 \$2.98	\$3.76 \$3.15	\$3.98 \$3.33	\$105.80 \$105.24
Northwest Natural Gas	NWN	(\$44.52)		\$0.00	\$2.00	\$1.85	\$1.51	\$1.47	\$1.80	\$1.75	\$2.01	\$2.10	\$2.28	\$2.55	\$2.62 \$2.61	\$2.96	\$2.92	\$3.09	\$94.82
Piedmont Natural Gas	PNY	(\$32.93)		\$0.00	\$1.19	\$1.26	\$1.30	\$1.35	\$1.40	\$1.46	\$1.53	\$1.61	\$1.69	\$1.79	\$1.90	\$2.01	\$2.12	\$2.24	\$74.14
South Jersey Industries	SJI	(\$57.35)		\$0.00	\$2.15	\$2.20	\$2.26	\$2.31	\$2.53	\$2.76	\$3.01	\$3.27	\$3.56	\$3.87	\$4.19	\$4.43	\$4.69	\$4.96	\$136.15
Southwest Gas Corp.	SWX	(\$51.42)		\$0.00	\$1.19	\$1.25	\$1.29	\$1.33	\$1.50	\$1.68	\$1.89	\$2.12	\$2.37	\$2.66	\$2.99	\$3.16	\$3.34	\$3.53	\$124.94
WGL Holdings, Inc.	WGL	(\$41.66)		\$0.00	\$2.03	\$1.99	\$1.98	\$1.97	\$2.08	\$2.19	\$2.33	\$2.47	\$2.64	\$2.82	\$3.03	\$3.20	\$3.39	\$3.58	\$94.91

Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price High Growth Rate Estimate in First Stage

Inputs		[1] Stock	[2]	[3]	[4] th Rate Est	[5]	[6]	[7]	[8]	[9] Payout Rati	[10]	[11]	[12]	[13] Terminal	[14] Terminal				
		Stock			Value	Retention	High	Long-Term	1	ayout Rati	D	iterative	Solution	reminal	Terminal				
	Ticker	Price	Zacks	First Call	Line	Growth	Growth	Growth	2013	2017	2024	Proof	IRR		PEG Ratio				
AGL Resources Inc.	GAS	\$46.07	5.00%	NA	8.00%	4.66%	8.00%	5.71%	70.00%	60.00%	69.45%	\$0.00	10.41%	15.62	2.73				
Atmos Energy Corp. Laclede Group	ATO LG	\$43.26 \$45.49	6.50% 4.30%	7.75% 4.90%	7.50% 6.00%	6.30% 4.82%	7.75% 6.00%	5.71% 5.71%	56.00% 85.00%	52.00% 52.00%	69.45% 69.45%	\$0.00 (\$0.00)	10.03% 10.65%	17.02 14.87	2.98 2.60				
New Jersey Resources	NJR	\$44.52	4.00%	2.50%	5.50%	7.16%	7.16%	5.71%	58.00%	48.00%	69.45%	(\$0.00)	10.81%	14.40	2.52				
	NWN	\$42.14	4.00%	4.00%	4.50%	4.46%	4.50%	5.71%	85.00%	63.00%	69.45%	\$0.00	9.63%	18.77	3.28				
Piedmont Natural Gas	PNY	\$32.93	5.00%	4.00%	4.00%	3.64%	5.00%	5.71%	68.00%	68.00%	69.45%	\$0.00	9.58%	18.99	3.32				
South Jersey Industries	SJI	\$57.35	6.00%	6.00%	7.50%	9.66%	9.66%	5.71%	65.00%	57.00%	69.45%	(\$0.00)	11.16%	13.49	2.36				
	SWX	\$51.42	3.40%	2.55%	8.00%	8.00%	8.00%	5.71%	40.00%	41.00%	69.45%	(\$0.00)	10.49%	15.37	2.69				
WGL Holdings, Inc.	WGL	\$41.66	4.60%	4.60%	3.50%	3.89%	4.60%	5.71%	72.00%	62.00%	69.45%	\$0.00 MEAN	10.47% 10.36%	15.44	2.70				
												MAX	11.16% 9.58%						
Projected Annual Earnings per Share		[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]	[31]	
Lamings per Snare		[13]	1101	1171	110	113	1201	[21]	22	23	[24]	23	1201	21	[20]	1231	1301	1311	-
	Ticker	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	-
AGL Resources Inc.	GAS ATO	\$2.32 \$2.10	\$2.51 \$2.26	\$2.71 \$2.44	\$2.92 \$2.63	\$3.16 \$2.83	\$3.41 \$3.05	\$3.68 \$3.29	\$3.96 \$3.53	\$4.25 \$3.78	\$4.54 \$4.03	\$4.83 \$4.29	\$5.13 \$4.55	\$5.42 \$4.81	\$5.73 \$5.09	\$6.06 \$5.38	\$6.41 \$5.68	\$6.77 \$6.01	
Atmos Energy Corp. Laclede Group	LG	\$2.10	\$2.26 \$2.96	\$2.44 \$3.13	\$2.63 \$3.32	\$2.83 \$3.52	\$3.05 \$3.73	\$3.29 \$3.96	\$3.53 \$4.19	\$3.78 \$4.44	\$4.03 \$4.70	\$4.29 \$4.97	\$4.55 \$5.26	\$4.81 \$5.56	\$5.09 \$5.88	\$5.38 \$6.21	\$5.68 \$6.57	\$6.95	
New Jersey Resources	NJR	\$2.71	\$2.90	\$3.11	\$3.34	\$3.57	\$3.83	\$4.10	\$4.39	\$4.68	\$4.98	\$5.29	\$5.61	\$5.93	\$6.27	\$6.62	\$7.00	\$7.40	
Northwest Natural Gas	NWN	\$2.22	\$2.32	\$2.42	\$2.53	\$2.65	\$2.77	\$2.89	\$3.03	\$3.18	\$3.34	\$3.51	\$3.71	\$3.92	\$4.14	\$4.38	\$4.63	\$4.90	
Piedmont Natural Gas	PNY	\$1.66	\$1.74	\$1.83	\$1.92	\$2.02	\$2.12	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.89	\$3.05	\$3.23	\$3.41	\$3.61	\$3.81	
South Jersey Industries Southwest Gas Corp.	SJI SWX	\$3.03 \$2.86	\$3.32 \$3.09	\$3.64 \$3.34	\$4.00 \$3.60	\$4.38 \$3.89	\$4.81 \$4.20	\$5.27 \$4.54	\$5.74 \$4.89	\$6.22 \$5.24	\$6.70 \$5.60	\$7.17 \$5.96	\$7.63 \$6.32	\$8.07 \$6.69	\$8.53 \$7.07	\$9.01 \$7.47	\$9.53 \$7.90	\$10.07 \$8.35	
	WGL	\$2.86 \$2.68	\$3.09 \$2.80	\$3.34 \$2.93	\$3.60 \$3.07	\$3.89 \$3.21	\$4.20 \$3.36	\$4.54 \$3.51	\$4.89 \$3.68	\$5.24 \$3.86	\$5.60 \$4.06	\$5.96 \$4.28	\$6.32 \$4.51	\$6.69 \$4.77	\$7.07 \$5.04	\$7.47 \$5.33	\$7.90 \$5.64	\$8.35 \$5.96	
		,	,						*****				•	*			*****	*****	-
Projected Annual Dividend Payout Ratio			[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]	[47]	
Dividend Payout Ratio			[32]	[33]	[34]	[35]	[30]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]	[47]	•
	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	-
AGL Resources Inc.	GAS ATO		70.00% 56.00%	67.50% 55.00%	65.00% 54.00%	62.50% 53.00%	60.00% 52.00%	61.35% 54.49%	62.70% 56.99%	64.05% 59.48%	65.40% 61.97%	66.75% 64.46%	68.10% 66.96%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
Atmos Energy Corp. Laclede Group	LG		56.00% 85.00%	55.00% 76.75%	54.00% 68.50%	53.00% 60.25%	52.00% 52.00%	54.49% 54.49%	56.99% 56.99%	59.48% 59.48%	61.97%	64.46% 64.46%	66.96%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
New Jersey Resources	NJR		58.00%	55.50%	53.00%	50.50%	48.00%	51.06%	54.13%	57.19%	60.26%	63.32%	66.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
	NWN		85.00%	79.50%	74.00%	68.50%	63.00%	63.92%	64.84%	65.76%	66.69%	67.61%	68.53%	69.45%	69.45%	69.45%	69.45%	69.45%	
Piedmont Natural Gas	PNY		68.00%	68.00%	68.00%	68.00%	68.00%	68.21%	68.41%	68.62%	68.83%	69.04%	69.24%	69.45%	69.45%	69.45%	69.45%	69.45%	
South Jersey Industries	SJI		65.00%	63.00%	61.00%	59.00%	57.00%	58.78%	60.56%	62.34%	64.11%	65.89%	67.67%	69.45%	69.45%	69.45%	69.45%	69.45%	
	SWX WGL		40.00% 72.00%	40.25% 69.50%	40.50% 67.00%	40.75% 64.50%	41.00% 62.00%	45.06% 63.06%	49.13% 64.13%	53.19% 65.19%	57.26% 66.26%	61.32% 67.32%	65.39% 68.39%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
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Projected Annual																			
Cash Flows			[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]	[64]
	Ticker		[48] 2013	[49] 2014	[50] 2015	[51] 2016	[52] 2017	[53] 2018	[54] 2019	[55] 2020	[56] 2021	[57] 2022	[58] 2023	[59] 2024	[60] 2025	[61] 2026	[62] 2027	[63] 2028	[64] Terminal Value
Company AGL Resources Inc.	GAS		2013 \$1.75	2014 \$1.83	2015 \$1.90	2016 \$1.97	2017 \$2.05	2018 \$2.26	2019 \$2.48	2020 \$2.72	2021 \$2.97	2022 \$3.23	2023 \$3.49	2024 \$3.77	2025 \$3.98	2026 \$4.21	2027 \$4.45	2028 \$4.70	Terminal Value \$105.74
Company AGL Resources Inc. Atmos Energy Corp.	GAS ATO		2013 \$1.75 \$1.27	2014 \$1.83 \$1.34	2015 \$1.90 \$1.42	2016 \$1.97 \$1.50	2017 \$2.05 \$1.59	2018 \$2.26 \$1.79	2019 \$2.48 \$2.01	2020 \$2.72 \$2.25	2021 \$2.97 \$2.50	2022 \$3.23 \$2.77	2023 \$3.49 \$3.05	2024 \$3.77 \$3.34	2025 \$3.98 \$3.53	2026 \$4.21 \$3.73	2027 \$4.45 \$3.95	2028 \$4.70 \$4.17	Terminal Value \$105.74 \$102.25
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group	GAS ATO LG		2013 \$1.75 \$1.27 \$2.51	2014 \$1.83 \$1.34 \$2.41	2015 \$1.90 \$1.42 \$2.28	2016 \$1.97 \$1.50 \$2.12	2017 \$2.05 \$1.59 \$1.94	2018 \$2.26 \$1.79 \$2.16	2019 \$2.48 \$2.01 \$2.39	2020 \$2.72 \$2.25 \$2.64	2021 \$2.97 \$2.50 \$2.91	2022 \$3.23 \$2.77 \$3.21	2023 \$3.49 \$3.05 \$3.52	2024 \$3.77 \$3.34 \$3.86	2025 \$3.98 \$3.53 \$4.08	2026 \$4.21 \$3.73 \$4.32	2027 \$4.45 \$3.95 \$4.56	2028 \$4.70 \$4.17 \$4.82	Terminal Value \$105.74 \$102.25 \$103.28
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources	GAS ATO LG NJR		2013 \$1.75 \$1.27 \$2.51 \$1.68	2014 \$1.83 \$1.34 \$2.41 \$1.73	2015 \$1.90 \$1.42 \$2.28 \$1.77	2016 \$1.97 \$1.50 \$2.12 \$1.80	2017 \$2.05 \$1.59 \$1.94 \$1.84	2018 \$2.26 \$1.79 \$2.16 \$2.10	2019 \$2.48 \$2.01 \$2.39 \$2.38	2020 \$2.72 \$2.25 \$2.64 \$2.68	2021 \$2.97 \$2.50 \$2.91 \$3.00	2022 \$3.23 \$2.77 \$3.21 \$3.35	2023 \$3.49 \$3.05 \$3.52 \$3.72	2024 \$3.77 \$3.34 \$3.86 \$4.12	2025 \$3.98 \$3.53 \$4.08 \$4.35	2026 \$4.21 \$3.73 \$4.32 \$4.60	2027 \$4.45 \$3.95 \$4.56 \$4.86	2028 \$4.70 \$4.17 \$4.82 \$5.14	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources	GAS ATO LG		2013 \$1.75 \$1.27 \$2.51	2014 \$1.83 \$1.34 \$2.41	2015 \$1.90 \$1.42 \$2.28	2016 \$1.97 \$1.50 \$2.12	2017 \$2.05 \$1.59 \$1.94	2018 \$2.26 \$1.79 \$2.16	2019 \$2.48 \$2.01 \$2.39	2020 \$2.72 \$2.25 \$2.64	2021 \$2.97 \$2.50 \$2.91	2022 \$3.23 \$2.77 \$3.21	2023 \$3.49 \$3.05 \$3.52	2024 \$3.77 \$3.34 \$3.86	2025 \$3.98 \$3.53 \$4.08	2026 \$4.21 \$3.73 \$4.32	2027 \$4.45 \$3.95 \$4.56	2028 \$4.70 \$4.17 \$4.82	Terminal Value \$105.74 \$102.25 \$103.28
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries	GAS ATO LG NJR NWN PNY SJI		2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.87 \$1.31 \$2.44	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.44 \$2.74	2018 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52 \$3.10	2019 \$2.48 \$2.01 \$2.39 \$2.38 \$1.96 \$1.60 \$3.48	2020 \$2.72 \$2.25 \$2.64 \$2.68 \$2.09 \$1.69 \$3.88	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89 \$4.73	2023 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.00 \$5.16	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.72 \$2.12 \$5.60	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$91.88 \$72.41 \$135.90
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries South Jersey Industries	GAS ATO LG NJR NWN PNY SJI SWX		2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30 \$1.34	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.87 \$1.31 \$2.44 \$1.46	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$1.59	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.44 \$2.74 \$1.72	2018 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52 \$3.10 \$2.05	2019 \$2.48 \$2.01 \$2.39 \$2.38 \$1.96 \$1.60 \$3.48 \$2.40	2020 \$2.72 \$2.25 \$2.64 \$2.68 \$2.09 \$1.69 \$3.88 \$2.79	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89 \$4.73 \$3.66	2023 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.00 \$5.16 \$4.14	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.72 \$2.12 \$5.60 \$4.64	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92 \$4.91	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$91.88 \$72.41 \$135.90 \$128.32
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries South Jersey Industries	GAS ATO LG NJR NWN PNY SJI		2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.87 \$1.31 \$2.44	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.44 \$2.74	2018 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52 \$3.10	2019 \$2.48 \$2.01 \$2.39 \$2.38 \$1.96 \$1.60 \$3.48	2020 \$2.72 \$2.25 \$2.64 \$2.68 \$2.09 \$1.69 \$3.88	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89 \$4.73	2023 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.00 \$5.16	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.72 \$2.12 \$5.60	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$91.88 \$72.41 \$135.90
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries South Jersey Industries	GAS ATO LG NJR NWN PNY SJI SWX		2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30 \$1.34	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.87 \$1.31 \$2.44 \$1.46	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$1.59	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.44 \$2.74 \$1.72	2018 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52 \$3.10 \$2.05	2019 \$2.48 \$2.01 \$2.39 \$2.38 \$1.96 \$1.60 \$3.48 \$2.40	2020 \$2.72 \$2.25 \$2.64 \$2.68 \$2.09 \$1.69 \$3.88 \$2.79	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89 \$4.73 \$3.66	2023 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.00 \$5.16 \$4.14	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.72 \$2.12 \$5.60 \$4.64	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92 \$4.91	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$91.88 \$72.41 \$135.90 \$128.32
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries South Jersey Industries Southerest Gas Corp. WGL Holdings, Inc.	GAS ATO LG NJR NWN PNY SJI SWX	[65]	2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30 \$1.34	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.87 \$1.31 \$2.44 \$1.46	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$1.59	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.44 \$2.74 \$1.72	2018 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52 \$3.10 \$2.05	2019 \$2.48 \$2.01 \$2.39 \$2.38 \$1.96 \$1.60 \$3.48 \$2.40	2020 \$2.72 \$2.25 \$2.64 \$2.68 \$2.09 \$1.69 \$3.88 \$2.79	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89 \$4.73 \$3.66	2023 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.00 \$5.16 \$4.14	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.72 \$2.12 \$5.60 \$4.64	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92 \$4.91	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$91.88 \$72.41 \$135.90 \$128.32
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries Southwest Gas Corp. WGL Holdings, Inc. Projected Annual Data Investor Cash Flows	GAS ATO LG NJR NWN PNY SJI SWX WGL	Initial	2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24 \$2.02 [66]	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30 \$1.34 \$2.04	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.31 \$2.44 \$1.46 \$2.05 [68]	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$1.59 \$2.07	2017 \$2.05 \$1.94 \$1.84 \$1.84 \$1.44 \$1.74 \$1.44 \$2.74 \$1.72 \$2.08	2018 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52 \$3.10 \$2.05 \$2.21 [71]	2019 \$2.48 \$2.01 \$2.39 \$2.38 \$1.96 \$1.60 \$3.48 \$2.40 \$2.36	2020 \$2.72 \$2.25 \$2.64 \$2.68 \$2.09 \$1.69 \$3.88 \$2.79 \$2.52 [73]	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21 \$2.69 [74]	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89 \$4.73 \$3.66 \$2.88 [75]	2023 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.00 \$5.16 \$4.14 \$3.09 [76]	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.72 \$2.12 \$5.60 \$4.64 \$3.31	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92 \$4.91 \$3.50	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19 \$3.70 [79]	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49 \$3.91 [80]	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80 \$4.14	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$91.88 \$72.41 \$135.90 \$128.32 \$91.97 [82]
Company AGL Resources Inc. Atmos Energy Corp. Laciede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries Southwest Gas Corp. WGL Holdings, Inc. Projected Annual Data Investor Cash Flows	GAS ATO LG NJR NWN PNY SJI SWX		2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24 \$2.02	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30 \$1.34 \$2.04	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.87 \$1.87 \$1.31 \$2.44 \$1.46 \$2.05	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.81 \$1.37 \$2.59 \$1.59 \$2.07	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.74 \$1.74 \$2.74 \$1.72 \$2.08	2018 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52 \$3.10 \$2.05 \$2.21	2019 \$2.48 \$2.01 \$2.39 \$2.38 \$1.96 \$1.60 \$3.48 \$2.40 \$2.36	2020 \$2.72 \$2.25 \$2.64 \$2.68 \$2.09 \$1.69 \$3.88 \$2.79 \$2.52	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21 \$2.69	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89 \$4.73 \$3.66 \$2.88	2023 \$3.49 \$3.05 \$3.52 \$3.52 \$3.72 \$2.54 \$2.00 \$5.16 \$4.14 \$3.09	2024 \$3.77 \$3.34 \$4.12 \$2.72 \$2.12 \$5.60 \$4.64 \$3.31	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92 \$4.91 \$3.50	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19 \$3.70	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49 \$3.91	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80 \$4.14	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$91.88 \$72.41 \$135.90 \$128.32 \$91.97
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries South Jersey Industries Southest Gas Corp. WGL Holdings, Inc. Projected Annual Data Investor Cash Flows Company	GAS ATO LG NJR NWN PNY SJI SWX WGL Ticker GAS ATO	Initial Outflow (\$46.07) (\$43.26)	2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24 \$2.02 [66]	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30 \$1.34 \$2.04 [67] [67] [2/31/13 \$0.00 \$0.00	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.31 \$2.44 \$1.46 \$2.05 [68] 6/30/14 \$1.82 \$1.32	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$1.59 \$2.07 [69] 6/30/15 \$1.90 \$1.42	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.74 \$1.74 \$1.72 \$2.08 [70] (6/30/16 \$1.97 \$1.50	2018 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52 \$3.10 \$2.05 \$2.21 [71] 6/30/17	2019 \$2.48 \$2.01 \$2.39 \$1.96 \$1.60 \$3.48 \$2.40 \$2.36 [72] [72] (/30/18 \$2.26 \$1.79	2020 \$2.72 \$2.25 \$2.64 \$2.68 \$2.09 \$3.88 \$2.79 \$2.52 [73] 6/30/19 \$2.48 \$2.01	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21 \$2.69 [74] (74] (70)/20 \$2.72 \$2.25	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89 \$4.73 \$3.66 \$2.88 [75] (75] (75) (75) (75) (75) (75) (75) (75) (75)	2023 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.00 \$5.16 \$4.14 \$3.09 [76] 6/30/22 \$3.23 \$2.77	2024 \$3,77 \$3,34 \$3,86 \$4,12 \$2,72 \$2,12 \$5,60 \$4,64 \$3,31 [77] (73)/23 \$3,49 \$3,05	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92 \$4.91 \$3.50 [78] 6/30/24 \$3.77 \$3.34	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19 \$3.70 [79] 6/30/25 \$3.98 \$3.53	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49 \$3.91 [80] (/30/26 \$4.21 \$3.73	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80 \$4.14 [81] <u>6/30/27</u> \$4.45 \$3.95	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$91.88 \$72.41 \$135.90 \$128.32 \$91.97 [82] [82] [82] [6/30/28 \$110.44 \$104.45
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries South Jersey Industries South Jersey Industries South Jersey Industries Southest Gas Corp. WGL Holdings, Inc. Projected Annual Data Investor Cash Flows Company AGL Resources Inc. Atmos Energy Corp. Laclede Group	GAS ATO LG NJR NWN PNY SJI SWX WGL Ticker GAS ATO LG	Initial Outflow (\$46.07) (\$43.26) (\$45.49)	2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24 \$2.02 [66]	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30 \$1.34 \$2.04 [67] 12/31/13 \$0.00 \$0.00 \$0.00	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.31 \$2.44 \$1.45 \$2.05 [68] 6/30/14 \$1.82 \$1.82 \$1.32	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$1.59 \$2.07 [69] 6/30/15 \$1.42 \$1.42 \$2.28	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.74 \$1.74 \$1.72 \$2.08 [70] 6/30/16 \$1.97 \$1.50 \$2.12	2018 \$2.26 \$1.79 \$2.10 \$1.85 \$1.52 \$3.10 \$2.05 \$2.21 [71] 6/30/17 \$2.05 \$1.59 \$1.59	2019 \$2.48 \$2.01 \$2.39 \$1.96 \$1.60 \$3.48 \$2.40 \$2.36 [72] 6/30/18 \$2.26 \$1.79 \$2.16	2020 \$2.72 \$2.25 \$2.64 \$2.09 \$1.69 \$3.88 \$2.79 \$2.52 [73] 6/30/19 \$2.48 \$2.01 \$2.01 \$2.29	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21 \$2.69 [74] 6/30/20 \$2.72 \$2.25 \$2.64	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$3.35 \$4.73 \$3.66 \$2.88 [75] 6 /30/21 \$2.97 \$2.50 \$2.91	2023 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.54 \$2.00 \$5.16 \$4.14 \$3.09 [76] 6 /30/22 \$3.23 \$2.77 \$3.21	2024 \$3,77 \$3,34 \$3,86 \$4,12 \$2,72 \$2,12 \$5,60 \$4,64 \$3,31 [77] 6/30/23 \$3,49 \$3,05 \$3,52	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92 \$4.91 \$3.50 [78] 6/30/24 \$3.77 \$3.34 \$3.86	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19 \$3.70 [79] [79] [6/30/25 \$3.98 \$3.53 \$4.08	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49 \$3.91 [80] 6/30/26 \$4.21 \$3.73 \$4.32	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80 \$4.14 [81] <u>6/30/27</u> \$4.45 \$3.95 \$4.56	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$1.88 \$72.41 \$135.90 \$128.32 \$91.97 [82] <u>6/30/28</u> \$110.44 \$106.42 \$108.41
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas South Jersey Industries South Jersey Industries Southwest Gas Corp. WGL Holdings, Inc. Projected Annual Data Investor Cash Flows Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources	GAS ATO LG NJR NWN PNY SJJ SWX WGL Ticker GAS ATO LG NJR	Initial Outflow (\$46.07) (\$43.26) (\$45.49) (\$44.52)	2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24 \$2.02 [66]	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.93 \$1.24 \$2.30 \$1.34 \$2.04 [67] 12/31/13 \$0.00 \$0.00 \$0.00	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.87 \$1.31 \$2.44 \$1.46 \$2.05 [68] 6/30/14 \$1.82 \$1.32 \$1.32 \$1.32 \$1.32	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$1.59 \$2.07 [69] 6/30/15 \$1.90 \$1.42 \$2.28 \$1.72	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.74 \$1.74 \$1.72 \$2.08 [70] 6/30/16 \$1.97 \$1.50 \$2.12 \$1.80	2018 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52 \$3.10 \$2.05 \$2.21 [71] 6/30/17 \$2.05 \$1.59 \$1.94 \$1.84	2019 \$2.48 \$2.01 \$2.39 \$1.96 \$1.60 \$3.48 \$2.40 \$2.36 [72] 6/30/18 \$2.26 \$1.79 \$2.16 \$2.10	2020 \$2.72 \$2.25 \$2.64 \$2.09 \$1.69 \$3.88 \$2.79 \$2.52 [73] 6/30/19 \$2.48 \$2.01 \$2.39 \$2.39	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21 \$2.69 [74] 6/30/20 \$2.72 \$2.25 \$2.64 \$2.68	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89 \$4.73 \$3.66 \$2.88 [75] (75] (75) (75) (75) (75) (75) (75) (75) (75)	2023 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.00 \$5.16 \$4.14 \$3.09 [76] 6/30/22 \$3.23 \$2.77 \$3.21 \$3.35	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.72 \$5.60 \$4.64 \$3.31 [77] 6/30/23 \$3.49 \$3.05 \$3.52 \$3.72	2025 3.98 3.53 \$4.08 \$4.35 \$2.88 \$2.24 \$5.92 \$4.91 \$3.50 [78] 6/30/24 \$3.34 \$3.86 \$4.12	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19 \$3.70 [79] 6/30/25 \$3.98 \$3.53 \$4.08 \$4.35	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49 \$3.91 [80] 6/30/26 \$4.21 \$3.73 \$4.32 \$4.60	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80 \$4.14 [81] 6/30/27 \$4.45 \$3.95 \$4.56 \$4.56	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$18.8 \$72.41 \$135.90 \$135.90 \$128.32 \$91.97 [82] 6/30/28 \$110.44 \$106.42 \$108.11 \$111.74
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries Southeset Gas Corp. WGL Holdings, Inc. Projected Annual Data Investor Cash Flows Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas	GAS ATO LG NJR NWN PNY SJJ SWX WGL Ticker GAS ATO LG NJR NWN	Initial Outflow (\$46.07) (\$43.26) (\$45.49) (\$44.52) (\$42.14)	2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24 \$2.02 [66]	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.24 \$2.30 \$1.24 \$2.30 \$1.34 \$2.04 [67] 12/31/13 \$0.00 \$0.00 \$0.00 \$0.00	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.31 \$1.31 \$2.44 \$1.46 \$2.05 [68] [68] [68] [68] [63] \$1.32 \$2.59 \$1.74 \$2.25	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$1.59 \$2.07 [69] 6/30/15 \$1.90 \$1.42 \$1.42 \$1.47 \$1.47 \$1.47	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.84 \$1.44 \$1.74 \$1.44 \$2.74 \$1.72 \$2.08 [70] 6 /30/16 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81	2018 \$2.26 \$1.79 \$2.10 \$1.85 \$3.10 \$2.05 \$2.21 [71] 6/30/17 \$2.05 \$1.59 \$1.59 \$1.94 \$1.84 \$1.74	2019 \$2.48 \$2.01 \$2.39 \$2.38 \$1.60 \$3.48 \$2.40 \$2.36 [72] 6/30/18 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85	2020 \$2,72 \$2,25 \$2,64 \$2,09 \$1,69 \$3,88 \$2,79 \$2,52 [73] 6/30/19 \$2,48 \$2,01 \$2,29 \$2,29 \$2,38 \$1,96	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21 \$2.69 [74] 6/30/20 \$2.72 \$2.25 \$2.64 \$2.64 \$2.69	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$3.35 \$1.89 \$4.73 \$3.66 \$2.88 [75] 6/30/21 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23	2023 \$3.49 \$3.05 \$3.52 \$2.54 \$2.00 \$5.16 \$4.14 \$3.09 [76] (/30/22 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.12 \$5.60 \$4.64 \$3.31 [77] 6/30/23 \$3.49 \$3.05 \$3.52 \$3.52 \$3.52 \$2.54	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.24 \$5.92 \$4.91 \$3.50 [78] 6/30/24 \$3.36 \$4.12 \$3.86 \$4.12	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19 \$3.70 [79] 6/30/25 \$3.98 \$3.53 \$3.53 \$4.08 \$4.35 \$2.88	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49 \$3.91 [80] 6/30/26 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80 \$4.14 [81] [81] [81] [81] [8395 \$4.56 \$4.86 \$3.95 \$4.86 \$3.22	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$1.88 \$72.41 \$135.90 \$72.41 \$135.90 \$72.41 \$135.90 \$72.41 \$135.90 \$72.41 \$135.90 \$72.41 \$135.90 \$128.32 \$91.97 [82] 6/30/28 \$110.44 \$106.42 \$108.11 \$117.43 \$108.11 \$117.43 \$108.11 \$117.43 \$108.11 \$108.12 \$10
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas South Jersey Industries South Jersey Industries South West Gas Corp. WGL Holdings, Inc. Projected Annual Data Investor Cash Flows Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas	GAS ATO LG NJR NWN PNY SJI SWX WGL Ticker GAS ATO LG GAS ATO LG NJR NWN PNY	Initial Outflow (\$46.07) (\$43.26) (\$43.26) (\$45.49) (\$44.52) (\$44.52) (\$42.14) (\$32.93)	2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24 \$2.02 [66]	2014 \$1.83 \$1.34 \$2.41 \$2.41 \$2.30 \$1.24 \$2.30 \$1.34 \$2.04 [67] [67] [67] [67] [67] [67] [67]	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.87 \$1.31 \$2.44 \$1.46 \$2.05 [68] 6/30/14 \$1.82 \$1.32 \$2.59 \$1.74 \$2.02 \$1.21	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$2.07 (69) 6/30/15 \$1.90 \$1.42 \$2.28 \$1.77 \$1.87 \$1.31	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.74 \$1.74 \$1.74 \$2.74 \$1.74 \$2.08 (70) 6/30/16 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37	2018 \$2.26 \$1.79 \$2.16 \$1.85 \$1.52 \$1.52 \$3.10 \$2.05 \$2.21 [71] [71] [71] [71] [71] [71] [71] [71] [71]	2019 \$2.48 \$2.01 \$2.39 \$1.60 \$3.48 \$2.40 \$2.36 [72] 6/30/18 \$2.26 \$1.79 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85 \$1.52	2020 22.72 \$2.25 \$2.64 \$2.09 \$1.69 \$2.52 [73] 6/30/19 \$2.48 \$2.01 \$2.38 \$1.96 \$1.69 \$2.38	2021 \$2.97 \$2.50 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21 \$2.69 [74] 6/30/20 \$2.72 \$2.25 \$2.64 \$2.68 \$2.09 \$1.69	2022 \$3.23 \$3.277 \$3.21 \$3.35 \$2.38 \$4.73 \$3.66 \$3.66 \$3.66 \$3.28 \$2.88 [75] [75] [75] [75] [75] \$2.97 \$2.50 \$2.91 \$3.00 \$2.291 \$3.00 \$2.23 \$1.78	2023 \$3.49 \$3.05 \$3.52 \$2.72 \$2.54 \$2.00 \$5.16 \$4.14 \$3.09 [76] 6/30/22 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38 \$1.89	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.72 \$5.60 \$4.64 \$3.31 [77] 6/30/23 \$3.49 \$3.05 \$3.52 \$3.72 \$2.54 \$2.00	2025 33.98 \$4.08 \$4.35 \$2.24 \$5.92 \$4.91 \$3.50 [78] 6/30/24 \$3.77 \$3.34 \$3.86 \$4.12 \$2.24 \$2.24 \$3.77	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19 \$3.70 [79] 6/30/25 \$3.98 \$3.53 \$4.08 \$4.35 \$2.88 \$2.24	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49 \$3.91 [80] 6 /30/26 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$3.04	2028 \$4.70 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80 \$4.14 [81] 6/30/27 \$4.45 \$3.95 \$4.56 \$4.86 \$3.25 \$2.50	Terminal Value \$105.74 \$102.25 \$103.28 \$103.28 \$108.60 \$138.90 \$135.90 \$132.90 \$100.42
Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas South Jersey Industries Southeset Gas Corp. WGL Holdings, Inc. Projected Annual Data Investor Cash Flows Company AGL Resources Inc. Atmos Energy Corp. Laclede Group New Jersey Resources Northwest Natural Gas Piedmont Natural Gas Piedmont Natural Gas	GAS ATO LG NJR NWN PNY SJJ SWX WGL Ticker GAS ATO LG NJR NWN	Initial Outflow (\$46.07) (\$43.26) (\$45.49) (\$44.52) (\$42.14)	2013 \$1.75 \$1.27 \$2.51 \$1.68 \$1.97 \$1.19 \$2.16 \$1.24 \$2.02 [66]	2014 \$1.83 \$1.34 \$2.41 \$1.73 \$1.24 \$2.30 \$1.24 \$2.30 \$1.34 \$2.04 [67] 12/31/13 \$0.00 \$0.00 \$0.00 \$0.00	2015 \$1.90 \$1.42 \$2.28 \$1.77 \$1.31 \$1.31 \$2.44 \$1.46 \$2.05 [68] [68] [68] [68] [63] \$1.32 \$2.59 \$1.74 \$2.29	2016 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81 \$1.37 \$2.59 \$1.59 \$2.07 [69] 6/30/15 \$1.90 \$1.42 \$1.42 \$1.47 \$1.47 \$1.47	2017 \$2.05 \$1.59 \$1.94 \$1.84 \$1.84 \$1.44 \$1.74 \$1.44 \$2.74 \$1.72 \$2.08 [70] 6 /30/16 \$1.97 \$1.50 \$2.12 \$1.80 \$1.81	2018 \$2.26 \$1.79 \$2.10 \$1.85 \$3.10 \$2.05 \$2.21 [71] 6/30/17 \$2.05 \$1.59 \$1.59 \$1.94 \$1.84 \$1.74	2019 \$2.48 \$2.01 \$2.39 \$2.38 \$1.60 \$3.48 \$2.40 \$2.36 [72] 6/30/18 \$2.26 \$1.79 \$2.16 \$2.10 \$1.85	2020 \$2,72 \$2,25 \$2,64 \$2,09 \$1,69 \$3,88 \$2,79 \$2,52 [73] 6/30/19 \$2,48 \$2,01 \$2,29 \$2,29 \$2,38 \$1,96	2021 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23 \$1.78 \$4.30 \$3.21 \$2.69 [74] 6/30/20 \$2.72 \$2.25 \$2.64 \$2.64 \$2.69	2022 \$3.23 \$2.77 \$3.21 \$3.35 \$3.35 \$1.89 \$4.73 \$3.66 \$2.88 [75] 6/30/21 \$2.97 \$2.50 \$2.91 \$3.00 \$2.23	2023 \$3.49 \$3.05 \$3.52 \$2.54 \$2.00 \$5.16 \$4.14 \$3.09 [76] (/30/22 \$3.23 \$2.77 \$3.21 \$3.35 \$2.38	2024 \$3.77 \$3.34 \$3.86 \$4.12 \$2.12 \$5.60 \$4.64 \$3.31 [77] 6/30/23 \$3.49 \$3.05 \$3.52 \$3.52 \$3.52 \$2.54	2025 \$3.98 \$3.53 \$4.08 \$4.35 \$2.24 \$5.92 \$4.91 \$3.50 [78] 6/30/24 \$3.36 \$4.12 \$3.86 \$4.12	2026 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04 \$2.37 \$6.26 \$5.19 \$3.70 [79] 6/30/25 \$3.98 \$3.53 \$3.53 \$4.08 \$4.35 \$2.88	2027 \$4.45 \$3.95 \$4.56 \$4.86 \$3.22 \$2.50 \$6.62 \$5.49 \$3.91 [80] 6/30/26 \$4.21 \$3.73 \$4.32 \$4.60 \$3.04	2028 \$4.70 \$4.17 \$4.82 \$5.14 \$3.40 \$2.65 \$7.00 \$5.80 \$4.14 [81] [81] [81] [81] [8395 \$4.56 \$4.86 \$3.95 \$4.86 \$3.22	Terminal Value \$105.74 \$102.25 \$103.28 \$106.60 \$14.88 \$72.41 \$135.90 \$128.32 \$91.97 [82] 6/30/28 \$110.44 \$106.42 \$108.11 \$111.74 \$111.74

Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price Average Growth Rate Estimate in First Stage

Contract Using Term Using Term Using Term Using Term Addies Grade Grade Addies Grade	Inputs		[1] Stock	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13] Terminal	[14] Terminal				
Company Tuber Prod ZetAs File Call Lie Growth Aurage Growth Aurage Growth 2013 2017 2024 888 PER Rule PEQ Rule All Restruction Growth 2015 5.57% F17% 6.00% 6.00% 6.00% 6.00% 7.01% 5.00% 7.01% 5.00% 7.01% 5.00% 7.01% 5.00% 7.01% 5.00% 7.01% 5.00% 6.			STOCK				Retention		Long-Term	1	ayout Rati	0	Iterative	Solution	reminal	Terminal				
Atmos Bergy Cop. ATM 5 54.02 6.00% 7.75% 7.50% 6.00% 7.75% 6.00% 7.75% 6.00% 7.75% 6.00% 6.20% 6.42% 6.00% 6.20% 6.42% 6.00% 6.20% 6.42% 6.00% 6.20% 6.42% 6.00% 6.20% 6.42% 6.00% 6.20% 6.42% 6.00% 6.20% 6.42% 6.00% 6.20% 6.42% 6.00% 6.20% 6.42% 6.00% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Growth</td> <td></td>									Growth											
Lacked form James (1976) Lacked form James																				
New Jerger Features N.M. 84:46 4.00 9.00% 8.00% 8.00% 8.00% 8.00% 9.00% 7.10% 7.22 2.88 Monthmest Mutual Booth-merey floatines XX 4.00% <td></td>																				
Piedmon Natural Gas PM S33.5 5.00% 4.00% 5.71% 6.00%		NJR	\$44.64	4.00%	2.50%	5.50%	7.16%	4.79%	5.71%	58.00%	48.00%	69.45%	(\$0.00)	10.03%	17.02					
South marge violating South Set 30.4 6.00% 6.00% 6.70% 6.80% 6.70% 6.80% 6.70% 6.80% 6.70% 6.80% 6.20% 11.28 2.82 VIGL Holdings, In: MVEL \$42.95 5.80% 5.80% 5.71% 60.00% 6.20% 6.84% 60.00 10.12% 11.28 2.82 VIGL Holdings, In: MVEL \$42.95 4.60% 2.60% 5.71% 72.00% 62.90% 66.90% 7.00% 68.40% MVEL 10.17% 16.1 10.17% 16.1 10.17% 16.1 10.17% 16.1 10.17% 16.1 12.0 20.17 20.18 20.19 20.22																				
Southweld Sac Corp. SW1X 550.15 3.40% 2.65% 8.00% 3.80% 5.71% 72.00% 5.71% 72.00% 8435% 630.00 8435% 630.00 833% 17.83 3.12 MMA 10.27% MMA 10.27% M																				
VIOL Holdings, Inc. WOL \$42.98 460% 3.50% 3.89% 4.15% 5.71% 7.200% 69.45% 60.200 10.17% 16.47 2.88 Projected Annual 15 151 153 153 153 153 153 153 153 153 153 154 154 154 154 154 154 154 154 153 154 153 154 153 154 153 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154																				
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MIN 9.28/s Projected Annual (15) 116 117 118 119 120 121 1																				
$ \frac{\text{arring over Share}}{\text{All Resources Inc.}} \begin{array}{ c c c c c c c c c c c c c c c c c c c$																				
$\frac{1}{\text{AGL}} \frac{1}{\text{Resources}} \ln \frac{1}{\ln (2)} \frac{1}{2013} \frac{2014}{2015} \frac{2016}{2017} \frac{2016}{2017} \frac{2018}{2015} \frac{2019}{2020} \frac{2021}{2022} \frac{2022}{2023} \frac{2024}{2025} \frac{2026}{2025} \frac{2026}{2027} \frac{2028}{2028} \frac{2027}{2028} \frac{2028}{2026} \frac{2027}{2028} \frac{2028}{2028} \frac{2028}{2028}$			[46]	[4.6]	[47]	[4.0]	[10]	[20]	[04]	[00]	[00]	[24]	[05]	[26]	[07]	[20]	[20]	[20]	[24]	
AGL Resources Inc. GAS \$2.22 \$2.46 \$2.60 \$2.75 \$2.22 \$3.09 \$3.27 \$3.44 \$4.66 \$4.44 \$4.46 \$5.12 \$5.41 \$5.72 Lacked Group LG \$2.71 \$2.23 \$3.20 \$3.22 \$3.23 \$3.33 \$3.56 \$3.74 \$3.83 \$4.14 \$4.46 \$4.46 \$5.12 \$5.47 \$5.77 \$5.68 \$5.77 \$5.68 \$5.77 \$5.76 \$5.77 \$5.76 \$5.67 \$5.77 \$5.76 \$5.13 \$5.43 \$5.44 \$5.77 \$5.76 \$5.77 \$5.76 \$5.77 \$5.76 \$5.13 \$5.43 \$5.77 \$5.16 \$5.43 \$5.77 \$5.76 \$5.77 \$5.76 \$5.77 \$5.77 \$5.76 \$5.77 \$5.77 \$5.16 \$5.49 \$5.77 \$5.76 \$5.19 \$5.41 \$5.43 \$5.77 \$5.78 \$5.71 \$5.78 \$5.77 \$5.78 \$5.77 \$5.78 \$5.77 \$5.78 \$5.77 \$5.78 \$5.77 \$5.78 \$5.77 \$5.78 \$5.77 \$5.77 \$5.76 \$5.79 \$5.77 \$5.77 </td <td>Earnings per Snare</td> <td></td> <td>-</td>	Earnings per Snare																			-
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Cash Flows [48] [49] [50] [51] [52] [53] [54] [55] [56] [57] [58] [59] [60] [61] [62] [63] [64] Company Ticker 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 Value AGL Resources Inc. GAS \$1.72 \$1.76 \$1.79 \$1.82 \$1.85 \$2.01 \$2.25 \$2.74 \$2.95 \$3.18 \$3.36 \$3.56 \$3.76 \$3.97 \$100.5 Lackede Group LG \$2.49 \$2.36 \$2.21 \$2.24 \$2.26 \$3.26 \$3.26 \$3.26 \$3.26 \$3.26 \$3.72 \$1.92 \$1.14 \$2.37 \$3.08 \$3.40 \$3.36 \$3.46 \$10.5 \$10.65 \$1.65 \$1.65 \$1.65 \$1.64 \$1.83 \$2.04 \$2.78 \$3.08 \$3.40 \$3.38																				
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Piedmont Natural Gas PNY \$1.18 \$1.22 \$1.28 \$1.33 \$1.45 \$1.51 \$1.67 \$1.77 \$1.87 \$1.98 \$2.09 \$2.21 \$2.24 \$2.47 \$7.42 South Jersey Industries \$J \$2.11 \$2.28 \$2.23 \$2.46 \$2.72 \$3.00 \$3.29 \$3.61 \$3.44 \$3.42 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.65 \$4.92 \$4.25 \$4.49 \$4.75 \$121.6 WGL Holdings, Inc. WGL \$2.01 \$2.02 \$2.03 \$2.04 \$2.16 \$2.29 \$2.44 \$2.60 \$2.77 \$3.19 \$3.38 \$3.57 \$3.77 \$3.99 \$94.55 WGL Holdings, Inc. WGL \$2.01 \$2.02 \$2.03 \$2.04 \$2.16 \$2.29 \$2.44 \$2.60 \$2.77 \$3.19 \$3.38 \$3.57 \$3.77 \$3.99 \$94.55 <td></td> <td>\$104.15</td>																				\$104.15
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Projected Annual Data	Southwest Gas Corp.	SWX		\$1.21	\$1.28	\$1.36	\$1.44	\$1.53	\$1.78	\$2.04	\$2.34	\$2.65	\$3.00	\$3.38	\$3.80	\$4.02	\$4.25	\$4.49	\$4.75	\$121.81
	WGL Holdings, Inc.	WGL		\$2.01	\$2.02	\$2.03	\$2.03	\$2.04	\$2.16	\$2.29	\$2.44	\$2.60	\$2.78	\$2.97	\$3.19	\$3.38	\$3.57	\$3.77	\$3.99	\$94.58
	Projected Annual Data																			
				[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]	[82]
Initial Company Ticker Outflow 12/31/13 12/31/13 6/30/14 6/30/15 6/30/16 6/30/17 6/30/18 6/30/19 6/30/20 6/30/21 6/30/22 6/30/23 6/30/24 6/30/25 6/30/26 6/30/27 6/30/2	Company	Ticker		12/31/12	12/31/13	6/30/14	6/30/15	6/30/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28
AGL Resources Inc. GAS (\$45.00) \$0.00 \$1.77 \$1.79 \$1.82 \$1.85 \$2.01 \$2.17 \$2.35 \$2.53 \$2.74 \$2.95 \$3.18 \$3.36 \$3.56 \$3.76 \$105.3	AGL Resources Inc.	GAS	(\$45.00)	.2,01,10	\$0.00	\$1.77	\$1.79	\$1.82	\$1.85	\$2.01	\$2.17	\$2.35	\$2.53	\$2.74	\$2.95	\$3.18	\$3.36	\$3.56	\$3.76	\$105.34
																				\$104.90
																				\$107.24 \$108.40
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South Jersey Industries SJI (\$58.34) \$0.00 \$2.19 \$2.28 \$2.37 \$2.46 \$2.72 \$3.00 \$3.29 \$3.61 \$3.94 \$4.29 \$4.65 \$4.92 \$5.20 \$5.49 \$140.5	South Jersey Industries	SJI	(\$58.34)		\$0.00	\$2.19	\$2.28	\$2.37	\$2.46	\$2.72	\$3.00	\$3.29	\$3.61	\$3.94	\$4.29	\$4.65	\$4.92	\$5.20	\$5.49	\$140.55
																				\$126.56
WGL Holdings, Inc. WGL (\$42.98) \$0.00 \$2.05 \$2.03 \$2.03 \$2.04 \$2.16 \$2.29 \$2.44 \$2.60 \$2.78 \$2.97 \$3.19 \$3.38 \$3.57 \$3.77 \$98.5	WOL HOIGINGS, INC.	WGL	(\$42.98)		φ U. UU	φ2.U5	ą2.U3	φ∠.U3	φ2.U4	φ2.10	ąz.29	⊅ ∠.44	φ∠.0U	φ2./ŏ	φ∠.97	\$3.19				\$98.57

Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price Low Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]				
		Stock		Grow	th Rate Est Value	Retention	Low	Long-Term	ŀ	Payout Rati	0	Iterative	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks	First Call	Line	Growth	Growth	Growth	2013	2017	2024	Proof	IRR		PEG Ratio				
AGL Resources Inc.	GAS ATO	\$45.00	5.00%	NA	8.00%	4.66%	4.66%	5.71%	70.00%	60.00%	69.45%	\$0.00 (\$0.00)	9.51%	19.36	3.39				
Atmos Energy Corp. Laclede Group	LG	\$43.02 \$45.73	6.50% 4.30%	7.75% 4.90%	7.50% 6.00%	6.30% 4.82%	6.30% 4.30%	5.71% 5.71%	56.00% 85.00%	52.00% 52.00%	69.45% 69.45%	(\$0.00) \$0.00	9.63% 10.07%	18.73 16.87	3.28 2.95				
New Jersey Resources	NJR	\$44.64	4.00%	2.50%	5.50%	7.16%	2.50%	5.71%	58.00%	48.00%	69.45%	\$0.00	9.37%	20.10	3.52				
Northwest Natural Gas	NWN	\$42.87	4.00%	4.00%	4.50%	4.46%	4.00%	5.71%	85.00%	63.00%	69.45%	\$0.00	9.42%	19.83	3.47				
Piedmont Natural Gas	PNY	\$33.51	5.00%	4.00%	4.00%	3.64%	3.64%	5.71%	68.00%	68.00%	69.45%	\$0.00	9.14%	21.41	3.75				
South Jersey Industries Southwest Gas Corp.	SJI SWX	\$58.34 \$50.15	6.00% 3.40%	6.00% 2.55%	7.50% 8.00%	9.66% 8.00%	6.00% 2.55%	5.71% 5.71%	65.00% 40.00%	57.00% 41.00%	69.45% 69.45%	\$0.00 \$0.00	9.87% 9.05%	17.65 22.01	3.09 3.85				
WGL Holdings, Inc.	WGL	\$42.98	4.60%	4.60%	3.50%	3.89%	3.50%	5.71%	72.00%	62.00%	69.45%	\$0.00	9.96%	17.27	3.05				
TOE Holdings, mo.		4										MEAN	9.56%						
												MAX	10.07% 9.05%						
Projected Annual Earnings per Share		[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]	[31]	
Earnings per Share		[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	27	[28]	[29]	[30]	[31]	-
Company	Ticker	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	-
AGL Resources Inc. Atmos Energy Corp.	GAS ATO	\$2.32 \$2.10	\$2.43 \$2.23	\$2.54 \$2.37	\$2.66 \$2.52	\$2.78 \$2.68	\$2.91 \$2.85	\$3.05 \$3.03	\$3.20 \$3.22	\$3.36 \$3.41	\$3.53 \$3.62	\$3.72 \$3.83	\$3.93 \$4.06	\$4.15 \$4.29	\$4.39 \$4.53	\$4.64 \$4.79	\$4.90 \$5.07	\$5.18 \$5.36	
Laclede Group	LG	\$2.79	\$2.23	\$3.04	\$2.52 \$3.17	\$3.30	\$2.85 \$3.44	\$3.59	\$3.75	\$3.93	\$3.62 \$4.13	\$3.63 \$4.35	\$4.00	\$4.29 \$4.85	\$4.53 \$5.12	\$5.42	\$5.73	\$6.05	
New Jersey Resources	NJR	\$2.71	\$2.78	\$2.85	\$2.92	\$2.99	\$3.07	\$3.14	\$3.24	\$3.35	\$3.49	\$3.65	\$3.84	\$4.06	\$4.29	\$4.54	\$4.80	\$5.07	
Northwest Natural Gas	NWN	\$2.22	\$2.31	\$2.40	\$2.50	\$2.60	\$2.70	\$2.81	\$2.93	\$3.06	\$3.21	\$3.38	\$3.56	\$3.76	\$3.98	\$4.21	\$4.45	\$4.70	
Piedmont Natural Gas	PNY	\$1.66	\$1.72	\$1.78	\$1.85	\$1.91	\$1.98	\$2.06	\$2.14	\$2.23	\$2.34	\$2.45	\$2.58	\$2.73	\$2.89	\$3.05	\$3.23	\$3.41	
South Jersey Industries Southwest Gas Corp.	SJI SWX	\$3.03 \$2.86	\$3.21 \$2.93	\$3.40 \$3.01	\$3.61 \$3.08	\$3.83 \$3.16	\$4.05 \$3.24	\$4.30 \$3.33	\$4.55 \$3.43	\$4.82 \$3.55	\$5.11 \$3.70	\$5.40 \$3.87	\$5.71 \$4.07	\$6.04 \$4.30	\$6.38 \$4.55	\$6.75 \$4.81	\$7.13 \$5.09	\$7.54 \$5.38	
WGL Holdings, Inc.	WGL	\$2.68	\$2.77	\$2.87	\$2.97	\$3.08	\$3.18	\$3.29	\$3.42	\$3.57	\$3.73	\$3.92	\$4.13	\$4.36	\$4.61	\$4.87	\$5.15	\$5.45	_
Projected Annual			[32]	1001	10.41	1051	1001	[37]	[00]	[39]	[40]	[41]	[42]	[40]		[45]	[46]	[47]	
Dividend Payout Ratio			[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]	[47]	
Company	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	-
AGL Resources Inc.	GAS ATO		70.00% 56.00%	67.50% 55.00%	65.00% 54.00%	62.50% 53.00%	60.00% 52.00%	61.35% 54.49%	62.70% 56.99%	64.05% 59.48%	65.40% 61.97%	66.75% 64.46%	68.10% 66.96%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
Atmos Energy Corp. Laclede Group	LG		85.00%	76.75%	68.50%	60.25%	52.00% 52.00%	54.49% 54.49%	56.99%	59.48%	61.97%	64.46%	66.96%	69.45% 69.45%	69.45% 69.45%	69.45%	69.45% 69.45%	69.45%	
New Jersey Resources	NJR		58.00%	55.50%	53.00%	50.50%	48.00%	51.06%	54.13%	57.19%	60.26%	63.32%	66.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
Northwest Natural Gas	NWN		85.00%	79.50%	74.00%	68.50%	63.00%	63.92%	64.84%	65.76%	66.69%	67.61%	68.53%	69.45%	69.45%	69.45%	69.45%	69.45%	
Piedmont Natural Gas	PNY		68.00%	68.00%	68.00%	68.00%	68.00%	68.21%	68.41%	68.62%	68.83%	69.04%	69.24%	69.45%	69.45%	69.45%	69.45%	69.45%	
South Jersey Industries Southwest Gas Corp.	SJI SWX		65.00% 40.00%	63.00% 40.25%	61.00% 40.50%	59.00% 40.75%	57.00% 41.00%	58.78% 45.06%	60.56% 49.13%	62.34% 53.19%	64.11% 57.26%	65.89% 61.32%	67.67% 65.39%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	
WGL Holdings, Inc.	WGL		72.00%	69.50%	67.00%	64.50%	62.00%	63.06%	64.13%	65.19%	66.26%	67.32%	68.39%	69.45%	69.45%	69.45%	69.45%	69.45%	_
Projected Annual																			
Cash Flows			[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]	[64] Terminal
Company	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Value
AGL Resources Inc.	GAS		\$1.70	\$1.72	\$1.73	\$1.74	\$1.75	\$1.87	\$2.00	\$2.15	\$2.31	\$2.48	\$2.67	\$2.88	\$3.05	\$3.22	\$3.41	\$3.60	\$100.39
Atmos Energy Corp. Laclede Group	ATO LG		\$1.25 \$2.47	\$1.31 \$2.33	\$1.36 \$2.17	\$1.42 \$1.99	\$1.48 \$1.79	\$1.65 \$1.96	\$1.83 \$2.14	\$2.03 \$2.34	\$2.24 \$2.56	\$2.47 \$2.80	\$2.72 \$3.07	\$2.98 \$3.37	\$3.15 \$3.56	\$3.33 \$3.76	\$3.52 \$3.98	\$3.72 \$4.20	\$100.30 \$102.12
New Jersey Resources	NJR		\$2.47 \$1.61	\$2.33 \$1.58	φ2.17 \$1.55	\$1.99 \$1.51	\$1.79	\$1.90	\$2.14 \$1.75	\$2.34 \$1.92	\$2.56	\$2.00	\$2.55	\$3.37 \$2.82	\$2.98	\$3.15	\$3.33	\$4.20 \$3.52	\$102.12
Northwest Natural Gas	NWN		\$1.96	\$1.91	\$1.85	\$1.78	\$1.70	\$1.80	\$1.90	\$2.01	\$2.14	\$2.28	\$2.44	\$2.61	\$2.76	\$2.92	\$3.09	\$3.26	\$93.19
Piedmont Natural Gas	PNY		\$1.17	\$1.21	\$1.26	\$1.30	\$1.35	\$1.40	\$1.46	\$1.53	\$1.61	\$1.69	\$1.79	\$1.90	\$2.01	\$2.12	\$2.24	\$2.37	\$73.06
South Jersey Industries	SJI		\$2.09	\$2.14	\$2.20	\$2.26	\$2.31	\$2.53	\$2.76	\$3.01	\$3.27	\$3.56	\$3.87	\$4.19	\$4.43	\$4.69	\$4.96	\$5.24	\$133.14
Southwest Gas Corp. WGL Holdings, Inc.	SWX WGL		\$1.17 \$2.00	\$1.21 \$2.00	\$1.25 \$1.99	\$1.29 \$1.98	\$1.33 \$1.97	\$1.50 \$2.08	\$1.68 \$2.19	\$1.89 \$2.33	\$2.12 \$2.47	\$2.37 \$2.64	\$2.66 \$2.82	\$2.99 \$3.03	\$3.16 \$3.20	\$3.34 \$3.39	\$3.53 \$3.58	\$3.73 \$3.78	\$118.35 \$94.09
Projected Annual Data																			
Investor Cash Flows		[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]	[82]
Company	Ticker	Initial Outflow	12/31/13	12/31/13	6/30/14	6/30/15	6/30/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28
AGL Resources Inc.	GAS	(\$45.00)	12/31/13	\$0.00	\$1.74	\$1.73	\$1.74	\$1.75	\$1.87	\$2.00	\$2.15	\$2.31	\$2.48	\$2.67	\$2.88	\$3.05	\$3.22	\$3.41	\$103.99
Atmos Energy Corp.	ATO	(\$43.02)		\$0.00	\$1.29	\$1.36	\$1.42	\$1.48	\$1.65	\$1.83	\$2.03	\$2.24	\$2.47	\$2.72	\$2.98	\$3.15	\$3.33	\$3.52	\$104.02
Laclede Group	LG	(\$45.73)		\$0.00	\$2.53	\$2.17	\$1.99	\$1.79	\$1.96	\$2.14	\$2.34	\$2.56	\$2.80	\$3.07	\$3.37	\$3.56	\$3.76	\$3.98	\$106.33
New Jersey Resources Northwest Natural Gas	NJR NWN	(\$44.64) (\$42.87)		\$0.00 \$0.00	\$1.63 \$2.00	\$1.55 \$1.85	\$1.51 \$1.78	\$1.47 \$1.70	\$1.60 \$1.80	\$1.75 \$1.90	\$1.92 \$2.01	\$2.10 \$2.14	\$2.31 \$2.28	\$2.55 \$2.44	\$2.82 \$2.61	\$2.98 \$2.76	\$3.15 \$2.92	\$3.33 \$3.09	\$105.51 \$96.46
Piedmont Natural Gas	PNY	(\$42.67) (\$33.51)		\$0.00	\$2.00 \$1.19	\$1.05	\$1.78	\$1.35	\$1.60	\$1.90	\$2.01	\$2.14 \$1.61	\$2.20 \$1.69	\$2.44 \$1.79	\$2.61	\$2.76	\$2.92 \$2.12	\$2.24	\$96.46 \$75.43
South Jersey Industries	SJI	(\$58.34)		\$0.00	\$2.15	\$2.20	\$2.26	\$2.31	\$2.53	\$2.76	\$3.01	\$3.27	\$3.56	\$3.87	\$4.19	\$4.43	\$4.69	\$4.96	\$138.38
Southwest Gas Corp.	SWX	(\$50.15)		\$0.00	\$1.19	\$1.25	\$1.29	\$1.33	\$1.50	\$1.68	\$1.89	\$2.12	\$2.37	\$2.66	\$2.99	\$3.16	\$3.34	\$3.53	\$122.09
WGL Holdings, Inc.	WGL	(\$42.98)		\$0.00	\$2.03	\$1.99	\$1.98	\$1.97	\$2.08	\$2.19	\$2.33	\$2.47	\$2.64	\$2.82	\$3.03	\$3.20	\$3.39	\$3.58	\$97.87

Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price High Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]				
		Stock		Grow	th Rate Est Value	Retention	High	Long-Term	,	Payout Rati	0	Iterative	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks	First Call	Line	Growth	Growth	Growth	2013	2017	2024	Proof	IRR		PEG Ratio				
AGL Resources Inc.	GAS	\$45.00	5.00%	NA	8.00%	4.66%	8.00%	5.71%	70.00%	60.00%	69.45%	\$0.00	10.52%	15.26	2.67				
Atmos Energy Corp. Laclede Group	ATO LG	\$43.02 \$45.73	6.50% 4.30%	7.75% 4.90%	7.50% 6.00%	6.30% 4.82%	7.75% 6.00%	5.71% 5.71%	56.00% 85.00%	52.00% 52.00%	69.45% 69.45%	\$0.00 (\$0.00)	10.05% 10.63%	16.92 14.95	2.96 2.62				
New Jersey Resources	NJR	\$45.73 \$44.64	4.30%	2.50%	5.50%	4.82%	7.16%	5.71%	58.00%	48.00%	69.45% 69.45%	(\$0.00)	10.83%	14.95	2.62				
Northwest Natural Gas	NWN	\$42.87	4.00%	4.00%	4.50%	4.46%	4.50%	5.71%	85.00%	63.00%	69.45%	\$0.00	9.56%	19.10	3.34				
Piedmont Natural Gas	PNY	\$33.51	5.00%	4.00%	4.00%	3.64%	5.00%	5.71%	68.00%	68.00%	69.45%	\$0.00	9.51%	19.33	3.38				
South Jersey Industries	SJI	\$58.34	6.00%	6.00%	7.50%	9.66%	9.66%	5.71%	65.00%	57.00%	69.45%	(\$0.00)	11.07%	13.71	2.40				
Southwest Gas Corp.	SWX	\$50.15	3.40%	2.55%	8.00%	8.00%	8.00%	5.71%	40.00%	41.00%	69.45%	(\$0.00)	10.60%	15.02	2.63				
WGL Holdings, Inc.	WGL	\$42.98	4.60%	4.60%	3.50%	3.89%	4.60%	5.71%	72.00%	62.00%	69.45%	\$0.00	10.32%	15.93	2.79				
												MEAN MAX MIN	10.34% 11.07% 9.51%						
Projected Annual Earnings per Share		[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]	[31]	_
Company	Ticker	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	_
AGL Resources Inc.	GAS	\$2.32	\$2.51	\$2.71	\$2.92	\$3.16	\$3.41	\$3.68	\$3.96	\$4.25	\$4.54	\$4.83	\$5.13	\$5.42	\$5.73	\$6.06	\$6.41	\$6.77	
Atmos Energy Corp.	ATO	\$2.10	\$2.26	\$2.44	\$2.63	\$2.83	\$3.05	\$3.29	\$3.53	\$3.78	\$4.03	\$4.29	\$4.55	\$4.81	\$5.09	\$5.38	\$5.68	\$6.01	
Laclede Group New Jersey Resources	LG NJR	\$2.79 \$2.71	\$2.96 \$2.90	\$3.13 \$3.11	\$3.32 \$3.34	\$3.52 \$3.57	\$3.73 \$3.83	\$3.96 \$4.10	\$4.19 \$4.39	\$4.44 \$4.68	\$4.70 \$4.98	\$4.97 \$5.29	\$5.26 \$5.61	\$5.56 \$5.93	\$5.88 \$6.27	\$6.21 \$6.62	\$6.57 \$7.00	\$6.95 \$7.40	
Northwest Natural Gas	NWN	\$2.71	\$2.30	\$2.42	\$2.53 \$2.53	\$2.65	\$3.63 \$2.77	\$2.89	\$3.03	\$4.66 \$3.18	\$4.98 \$3.34	\$3.51	\$3.71	\$3.93	\$6.27 \$4.14	\$6.62	\$4.63	\$4.90	
Piedmont Natural Gas	PNY	\$1.66	\$1.74	\$1.83	\$1.92	\$2.02	\$2.12	\$2.22	\$2.34	\$2.46	\$2.59	\$2.73	\$2.89	\$3.05	\$3.23	\$3.41	\$3.61	\$3.81	
South Jersey Industries	SJI	\$3.03	\$3.32	\$3.64	\$4.00	\$4.38	\$4.81	\$5.27	\$5.74	\$6.22	\$6.70	\$7.17	\$7.63	\$8.07	\$8.53	\$9.01	\$9.53	\$10.07	
Southwest Gas Corp.	SWX	\$2.86	\$3.09	\$3.34	\$3.60	\$3.89	\$4.20	\$4.54	\$4.89	\$5.24	\$5.60	\$5.96	\$6.32	\$6.69	\$7.07	\$7.47	\$7.90	\$8.35	
WGL Holdings, Inc.	WGL	\$2.68	\$2.80	\$2.93	\$3.07	\$3.21	\$3.36	\$3.51	\$3.68	\$3.86	\$4.06	\$4.28	\$4.51	\$4.77	\$5.04	\$5.33	\$5.64	\$5.96	-
Projected Annual Dividend Payout Ratio			[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]	[47]	
																			-
Company AGL Resources Inc.	Ticker GAS		2013 70.00%	2014 67.50%	2015 65.00%	2016 62.50%	2017 60.00%	2018 61.35%	2019 62.70%	2020 64.05%	2021 65.40%	2022 66.75%	2023 68.10%	2024 69.45%	2025 69.45%	2026 69.45%	2027 69.45%	2028 69.45%	-
Atmos Energy Corp.	ATO		56.00%	55.00%	54.00%	53.00%	52.00%	54.49%	56.99%	59.48%	61.97%	64.46%	66.96%	69.45%	69.45%	69.45%	69.45%	69.45%	
Laclede Group	LG		85.00%	76.75%	68.50%	60.25%	52.00%	54.49%	56.99%	59.48%	61.97%	64.46%	66.96%	69.45%	69.45%	69.45%	69.45%	69.45%	
New Jersey Resources	NJR		58.00%	55.50%	53.00%	50.50%	48.00%	51.06%	54.13%	57.19%	60.26%	63.32%	66.39%	69.45%	69.45%	69.45%	69.45%	69.45%	
Northwest Natural Gas	NWN		85.00%	79.50%	74.00%	68.50%	63.00%	63.92%	64.84%	65.76%	66.69%	67.61%	68.53%	69.45%	69.45%	69.45%	69.45%	69.45%	
Piedmont Natural Gas	PNY SJI		68.00% 65.00%	68.00% 63.00%	68.00%	68.00% 59.00%	68.00% 57.00%	68.21%	68.41% 60.56%	68.62% 62.34%	68.83% 64.11%	69.04%	69.24% 67.67%	69.45%	69.45% 69.45%	69.45%	69.45% 69.45%	69.45% 69.45%	
South Jersey Industries Southwest Gas Corp.	SWX		40.00%	40.25%	61.00% 40.50%	40.75%	41.00%	58.78% 45.06%	49.13%	62.34% 53.19%	57.26%	65.89% 61.32%	65.39%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45% 69.45%	69.45%	
WGL Holdings, Inc.	WGL		72.00%	69.50%	67.00%	64.50%	62.00%	63.06%	64.13%	65.19%	66.26%	67.32%	68.39%	69.45%	69.45%	69.45%	69.45%	69.45%	-
Projected Annual Cash Flows			[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]	[64]
Company	Ticker		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Terminal Value
AGL Resources Inc.	GAS		\$1.75	\$1.83	\$1.90	\$1.97	\$2.05	\$2.26	\$2.48	\$2.72	\$2.97	\$3.23	\$3.49	\$3.77	\$3.98	\$4.21	\$4.45	\$4.70	\$103.33
Atmos Energy Corp.	ATO		\$1.27	\$1.34	\$1.42	\$1.50	\$1.59	\$1.79	\$2.01	\$2.25	\$2.50	\$2.77	\$3.05	\$3.34	\$3.53	\$3.73	\$3.95	\$4.17	\$101.70
Laclede Group	LG		\$2.51	\$2.41	\$2.28	\$2.12	\$1.94	\$2.16	\$2.39	\$2.64	\$2.91	\$3.21	\$3.52	\$3.86	\$4.08	\$4.32	\$4.56	\$4.82	\$103.81
New Jersey Resources	NJR NWN		\$1.68	\$1.73	\$1.77	\$1.80	\$1.84	\$2.10	\$2.38	\$2.68	\$3.00	\$3.35	\$3.72	\$4.12	\$4.35	\$4.60	\$4.86	\$5.14	\$106.87
Northwest Natural Gas Piedmont Natural Gas	PNY		\$1.97 \$1.19	\$1.93 \$1.24	\$1.87 \$1.31	\$1.81 \$1.37	\$1.74 \$1.44	\$1.85 \$1.52	\$1.96 \$1.60	\$2.09 \$1.69	\$2.23 \$1.78	\$2.38 \$1.89	\$2.54 \$2.00	\$2.72 \$2.12	\$2.88 \$2.24	\$3.04 \$2.37	\$3.22 \$2.50	\$3.40 \$2.65	\$93.51 \$73.70
South Jersey Industries	SJI		\$2.16	\$2.30	\$2.44	\$2.59	\$2.74	\$3.10	\$3.48	\$3.88	\$4.30	\$4.73	\$5.16	\$5.60	\$5.92	\$6.26	\$6.62	\$7.00	\$138.15
Southwest Gas Corp.	SWX		\$1.24	\$1.34	\$1.46	\$1.59	\$1.72	\$2.05	\$2.40	\$2.79	\$3.21	\$3.66	\$4.14	\$4.64	\$4.91	\$5.19	\$5.49	\$5.80	\$125.43
WGL Holdings, Inc.	WGL		\$2.02	\$2.04	\$2.05	\$2.07	\$2.08	\$2.21	\$2.36	\$2.52	\$2.69	\$2.88	\$3.09	\$3.31	\$3.50	\$3.70	\$3.91	\$4.14	\$94.94
Projected Annual Data																			
Investor Cash Flows		[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]	[82]
Company	Ticker	Initial Outflow	12/31/13	12/31/13	6/30/14	6/30/15	6/30/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28
AGL Resources Inc.	GAS	(\$45.00)		\$0.00	\$1.82	\$1.90	\$1.97	\$2.05	\$2.26	\$2.48	\$2.72	\$2.97	\$3.23	\$3.49	\$3.77	\$3.98	\$4.21	\$4.45	\$108.03
Atmos Energy Corp.	ATO	(\$43.02)		\$0.00	\$1.32	\$1.42	\$1.50	\$1.59	\$1.79	\$2.01	\$2.25	\$2.50	\$2.77	\$3.05	\$3.34	\$3.53	\$3.73	\$3.95	\$105.87
Laclede Group	LG	(\$45.73)		\$0.00	\$2.59	\$2.28	\$2.12	\$1.94	\$2.16	\$2.39	\$2.64	\$2.91	\$3.21	\$3.52	\$3.86	\$4.08	\$4.32	\$4.56	\$108.63
New Jersey Resources Northwest Natural Gas	NJR NWN	(\$44.64) (\$42.87)		\$0.00 \$0.00	\$1.74 \$2.02	\$1.77 \$1.87	\$1.80 \$1.81	\$1.84 \$1.74	\$2.10 \$1.85	\$2.38 \$1.96	\$2.68 \$2.09	\$3.00 \$2.23	\$3.35 \$2.38	\$3.72 \$2.54	\$4.12 \$2.72	\$4.35 \$2.88	\$4.60 \$3.04	\$4.86 \$3.22	\$112.01 \$96.91
Piedmont Natural Gas	PNY	(\$42.87) (\$33.51)		\$0.00	\$2.02 \$1.21	\$1.87 \$1.31	\$1.81 \$1.37	\$1.74 \$1.44	\$1.85 \$1.52	\$1.96 \$1.60	\$2.09 \$1.69	\$2.23 \$1.78	\$2.38 \$1.89	\$2.54 \$2.00	\$2.72 \$2.12	\$2.88 \$2.24	\$3.04 \$2.37	\$3.22 \$2.50	\$96.91 \$76.34
South Jersey Industries	SJI	(\$58.34)		\$0.00	\$2.26	\$2.44	\$2.59	\$2.74	\$3.10	\$3.48	\$3.88	\$4.30	\$4.73	\$2.00 \$5.16	\$5.60	\$5.92	\$6.26	\$6.62	\$76.34 \$145.14
Southwest Gas Corp.	SWX	(\$50.15)		\$0.00	\$1.28	\$1.46	\$1.59	\$1.72	\$2.05	\$2.40	\$2.79	\$3.21	\$3.66	\$4.14	\$4.64	\$4.91	\$5.19	\$5.49	\$131.23
WGL Holdings, Inc.	WGL	(\$42.98)		\$0.00	\$2.06	\$2.05	\$2.07	\$2.08	\$2.21	\$2.36	\$2.52	\$2.69	\$2.88	\$3.09	\$3.31	\$3.50	\$3.70	\$3.91	\$99.08

Multi-Stage DCF Note Source: Eloomberg: based on 30-, 90-, and 180-day historical average Source: Zacks Source: Yahool Finance [2] [3] [4] Source: Value Line Source: Schedule RBH-4 Equals average Columns [2], [3], [4], [5] Source: Federal Reserve, Bureau of Economic Analysis [4] [5] [6] [7] [8] [9] [10] Source: Value Line Source: Value Line [9] Source: Value Line
[10] Source: Bloomberg Professional
[11] Equals Column [11] + Column [65]
[12] Equals Column [14] + Column [71]
[14] Equals Column [13] / (Column [71]
[15] Source: Value Line
[16] Equals Column [15] x (1 + Column [6])
[17] Equals Column [17] x (1 + Column [6])
[18] Equals Column [17] x (1 + Column [6])
[19] Equals Column [18] x (1 + Column [6])
[20] Equals Column [19] x (1 + Column [6])
[21] Equals Column [19] x (1 + Column [6])
[22] Equals Column [19] x (1 + Column [6])
[23] Equals Column [16] + (((Column [7] - Column [6]) / (2023 - 2018 + 1)) x (2019 - 2018)))) x Column [21]
[23] Equals (1 + (Column [6] + (((Column [7] - Column [6]) / (2023 - 2018 + 1)) x (2022 - 2018)))) x Column [23]
[25] Equals (1 + (Column [6] + (((Column [7] - Column [6]) / (2023 - 2018 + 1)) x (2022 - 2018)))) x Column [24]
[26] Equals Column [26] x (1 + Column [7])
[27] Equals Column [27] x (1 + Column [7])
[28] Equals Column [28] x (1 + Column [7])
[29] Equals Column [29] x (1 + Column [7])
[20] Equals Column [29] x (1 + Column [7])
[21] Equals Column [23] x (1 + Column [7])
[22] Equals Column [23] x (1 + Column [7])
[23] Equals Column [23] x (1 + Column [7])
[24] Equals Column [23] x (1 + Column [7])
[25] Equals Column [24] x (1 + Column [7])
[26] Equals Column [26] x (1 + Column [7])
[27] Equals Column [28] x (1 + Column [7])
[28] Equals Column [29] x (1 + Column [7])
[29] Equals Column [21] x (1 + Column [7])
[20] Equals Column [23] x (1 + Column [7])
[21] Equals Column [23] x (1 + Column [7])
[22] Equals Column [23] x (1 + Column [7])
[23] Equals Column [8] Source: Bloomberg Professional
 [13]
 Equals Column [2] × (1 + Column [7])

 [23]
 Equals Column [32] × (1 + Column [7])

 [23]
 Equals Column [32] + ((Column [36] - Column [32]) / 4)

 [34]
 Equals Column [33] + ((Column [36] - Column [32]) / 4)

 [35]
 Equals Column [34] + ((Column [36] - Column [32]) / 4)

 [36]
 Equals Column [34] + ((Column [36] - Column [36]) / 7)

 [37]
 Equals Column [36] + ((Column [43] - Column [36]) / 7)

 [38]
 Equals Column [38] + ((Column [43] - Column [36]) / 7)

 [39]
 Equals Column [38] + ((Column [43] - Column [36]) / 7)

 [41]
 Equals Column [41] + ((Column [43] - Column [36]) / 7)

 [42]
 Equals Column [41] + ((Column [43] - Column [36]) / 7)

 [43]
 Equals Column [40] + ((Column [43] - Column [36]) / 7)

 [44]
 Equals Column [10]

 [45]
 Equals Column [10]

 [46]
 Equals Column [10]

 [47]
 Equals Column [10]

 [48]
 Equals Column [10]

 [48]
 Equals Column [10]

 Equais Column [10]

 Equais Column [16]

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 Equais Column [29]

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 Equais Column [31]

 Equais Column [31]

 Equais Column [31]

 Equais Column [31]

 [48] [49] [50] [51] [52] [53] [54] [55] [56] [57] [58] [59] [60] [61] [62] [63] [64] Equais (Column [63] x (1 + Column [7])) / (Column [12 Equais negative net present value; discount rate equa Equais \$0.00 Equais (12/31/2013 - 12/31/2013) / 365 x Column [48] Equais Column [48] x (1 + (0.5 x Column [6])) Equais Column [50] [64] [65] [66] [67] [68] [69] count rate equals Column [12], cash flows equal Column [67] through Column [82] Equais Column [50] Equais Column [51] Equais Column [52] Equais Column [53] Equais Column [54] Equais Column [55] [70] [71] [72] [73] [74] [75] Equals Column [56] [75] Equals Column [56]
 [76] Equals Column [57]
 [77] Equals Column [58]
 [78] Equals Column [59]
 [79] Equals Column [60]
 [80] Equals Column [61]

[81] Equals Column [62] [82] Equals Column [63] + [64]

Retention Growth Estimate

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]
			Projected					Projected	Projected										
		Projected	Dividend		Projected			Common	Common	Common				Projected					
		Earnings	Declared		Book Value	Return on		Shares	Shares	Shares				Book Value					
		per share	per share	Retention	per Share	Book Value		Outstanding		Growth	2013 High	2013 Low	2013 price		Market/				
Company	Ticker	2016-18	2016-18	Ratio (B)	2016-18	(R)	BxR	2014	2016-18	Rate	Price	Price	midpoint	2013	Book Ratio	"S"	"V"	SxV	BR + SV
AGL Resources Inc.	GAS	3.90	2.32	40.51%	37.20		4.25%	120.00	125.00	1.36%	\$ 49.30	\$ 38.90	\$ 44.10	33.75		1.77%	23.47%	0.42%	4.66%
Atmos Energy Corporation	ATO	3.30	1.70	48.48%	34.65	9.52%	4.62%	92.00	103.00	3.80%	\$ 47.40	\$ 34.90	\$ 41.15	28.50	1.44	5.48%	30.74%	1.69%	6.30%
Laclede Group, Inc. (The)	LG	3.85	2.00	48.05%	38.95	9.88%	4.75%	32.00	33.00	1.02%	\$ 48.50	\$ 37.40	\$ 42.95	40.32	1.07	1.09%	6.12%	0.07%	4.82%
New Jersey Resources Corporation	NJR	3.55	1.72	51.55%	25.55	13.89%	7.16%	40.00	40.00	0.00%	\$ 47.60	\$ 39.10	\$ 43.35	20.00	2.17	0.00%	53.86%	0.00%	7.16%
Northwest Natural Gas Company	NWN	3.20	2.00	37.50%	31.65	10.11%	3.79%	27.00	28.00	1.21%	\$ 46.60	\$ 40.00	\$ 43.30	27.90	1.55	1.87%	35.57%	0.67%	4.46%
Piedmont Natural Gas Company, Inc.	PNY	2.05	1.39	32.20%	18.15	11.29%	3.64%	76.00	76.00	0.00%	\$ 35.50	\$ 30.90	\$ 33.20	15.75	2.11	0.00%	52.56%	0.00%	3.64%
South Jersey Industries, Inc.	SJI	4.40	2.45	44.32%	30.55	14.40%	6.38%	33.50	36.00	2.40%	\$ 62.30	\$ 50.50	\$ 56.40	23.85	2.36	5.68%	57.71%	3.28%	9.66%
Southwest Gas Corporation	SWX	4.00	1.64	59.00%	35.00	11.43%	6.74%	47.00	50.00	2.06%	\$ 55.00	\$ 42.00	\$ 48.50	30.10	1.61	3.32%	37.94%	1.26%	8.00%
WGL Holdings, Inc.	WGL	2.95	1.83	37.97%	28.80	10.24%	3.89%	52.00	52.00	0.00%	\$ 47.00	\$ 38.30	\$ 42.65	24.65	1.73	0.00%	42.20%	0.00%	3.89%
			Average:	44.40%															

Notes: [1] Source: Value Line [2] Source: Value Line [3] Equals 1 - [2] / [1] [4] Source: Value Line [5] Equals [1] / [4] [6] Equals [3] x [5] [7] Source: Value Line [8] Source: Value Line [9] Equals ([8] / [7]) ^ 0.33 - 1 [10] Source: Value Line [11] Source: Value Line [11] Source: Value Line [12] Equals Average ([10], [11]) [11] Source: Value Line [12] Equals Average ([10], [11]) [13] Source: Value Line [14] Equals [12]/[13] [15] Equals [12]/[14] [16] Equals 1 - (1/[14]) [17] Equals [15] x [16] [18] Equals [6] + [17]

Ex-Ante Market Risk Premium Market DCF Method Based - Bloomberg

	[1]	[2]	[3]
	S&P 500	Current 30-Year	
	Est. Required	Treasury (30-day	Implied Market
_	Market Return	average)	Risk Premium
1	14.01%	3.87%	10.14%

		[4]	[5]	[6]	[7]	[8]	[9]
-		Market		Estimated	Long-Term		Weighted
Company	Ticker	Capitalization	Weight in Index	Dividend Yield	Growth Est.	DCF Result	DCF Result
AGILENT TECHNOLOGIES INC	А	18,869.95	0.11%	0.82%	10.77%	11.63%	0.0129%
ALCOA INC	AA	11,209.43	0.07%	1.15%	5.00%	6.17%	0.0041%
APPLE INC	AAPL	498,913.72	2.93%	2.29%	19.14%	21.65%	0.6344%
ABBVIE INC	ABBV	82,470.28	0.48%	3.09%	1.50%	4.61%	0.0223%
AMERISOURCEBERGEN CORP	ABC	16,070.04	0.09%	1.35%	12.72%	14.16%	0.0134%
ABBOTT LABORATORIES	ABT	59,203.45	0.35%	1.46%	11.57%	13.11%	0.0456%
ACE LTD	ACE	35,118.85	0.21%	1.98%	8.70%	10.76%	0.0222%
ACCENTURE PLC-CL A	ACN	55,176.40	0.32%	2.27%	11.67%	14.07%	0.0456%
ACTAVIS PLC	ACT	29,138.83	0.17%	0.00%	16.87%	16.87%	0.0289%
ADOBE SYSTEMS INC	ADBE	29,593.33	0.17%	0.00%	11.50%	11.50%	0.0200%
ANALOG DEVICES INC	ADI	15,406.06	0.09%	2.92%	11.67%	14.76%	0.0134%
ARCHER-DANIELS-MIDLAND CO	ADM	28,417.73	0.17%	1.72%	8.33%	10.13%	0.0169%
AUTOMATIC DATA PROCESSING	ADP	38,456.26	0.23%	2.26%	9.80%	12.17%	0.0275%
ALLIANCE DATA SYSTEMS CORP	ADS	12,674.55	0.07%	0.00%	13.83%	13.83%	0.0103%
AUTODESK INC	ADSK	11,088.50	0.07%	0.00%	11.60%	11.60%	0.0076%
ADT CORP/THE	ADT	8,050.39	0.05%	1.50%	9.00%	10.57%	0.0050%
	AEE	8,698.45	0.05%	4.46%	4.50%	9.06%	0.0046%
AMERICAN ELECTRIC POWER	AEP	22,849.05	0.13%	4.15%	4.69%	8.94%	0.0120%
AES CORP AETNA INC	AES AET	10,460.96 25,181.10	0.06% 0.15%	1.13% 1.06%	7.20% 10.96%	8.37% 12.08%	0.0051% 0.0179%
	AFL	,					0.0315%
AFLAC INC ALLERGAN INC	AFL	30,995.00 32,649.23	0.18% 0.19%	2.14% 0.18%	15.00% 13.50%	17.30% 13.69%	0.0315%
AMERICAN INTERNATIONAL GROUP	AGN	75,457.75	0.44%	0.34%	11.00%	11.36%	0.0503%
APARTMENT INVT & MGMT CO -A	AIV	3,783.61	0.02%	3.73%	9.68%	13.59%	0.0030%
ASSURANT INC	AIZ	4,805.14	0.03%	1.45%	9.00%	10.52%	0.0030%
AKAMAI TECHNOLOGIES INC	AKAM	8,379.70	0.05%	0.00%	14.80%	14.80%	0.0073%
ALLSTATE CORP	ALL	24,643.69	0.14%	1.84%	9.05%	10.98%	0.0159%
ALLEGION PLC	ALLE	4,215.48	N/A	0.00%	NA	N/A	N/A
ALTERA CORP	ALTR	10,288.96	0.06%	1.50%	11.36%	12.95%	0.0078%
ALEXION PHARMACEUTICALS INC	ALXN	25,732.80	0.15%	0.00%	29.13%	29.13%	0.0440%
APPLIED MATERIALS INC	AMAT	21,049.13	0.12%	2.24%	9.67%	12.02%	0.0149%
AMETEK INC	AME	12,793.28	0.08%	0.48%	15.00%	15.51%	0.0117%
AMGEN INC	AMGN	86,256.95	0.51%	1.65%	9.19%	10.91%	0.0553%
AMERIPRISE FINANCIAL INC	AMP	22,249.62	0.13%	1.76%	19.00%	20.93%	0.0274%
AMERICAN TOWER CORP	AMT	31,381.77	0.18%	1.39%	18.96%	20.48%	0.0378%
AMAZON.COM INC	AMZN	181,029.07	1.06%	0.00%	37.14%	37.14%	0.3950%
AUTONATION INC	AN	6,084.52	0.04%	0.00%	25.81%	25.81%	0.0092%
AON PLC	AON	25,092.35	0.15%	0.82%	10.00%	10.86%	0.0160%
APACHE CORP	APA	34,274.43	0.20%	0.97%	10.00%	11.01%	0.0222%
ANADARKO PETROLEUM CORP	APC	39,702.73	0.23%	0.63%	7.00%	7.65%	0.0178%
AIR PRODUCTS & CHEMICALS INC	APD	23,637.52	0.14%	2.63%	8.43%	11.17%	0.0155%
AMPHENOL CORP-CL A	APH	13,946.15	0.08%	0.63%	15.00%	15.68%	0.0128%
AIRGAS INC	ARG	8,216.15	0.05%	1.68%	12.22%	14.00%	0.0068%
ALLEGHENY TECHNOLOGIES INC	ATI	3,816.09	0.02%	2.04%	15.00%	17.19%	0.0039%
AVALONBAY COMMUNITIES INC	AVB	15,344.51	0.09%	3.61%	11.53%	15.35%	0.0138%
	AVP	7,387.09	0.04%	1.41%	12.86%	14.36%	0.0062%
AVERY DENNISON CORP	AVY AXP	4,825.96	0.03% 0.57%	2.25% 0.98%	7.00%	9.33% 12.43%	0.0026% 0.0712%
AMERICAN EXPRESS CO AUTOZONE INC	AXP AZO	97,432.08	0.57% 0.09%		11.40% 12.51%	12.43% 12.51%	0.0712% 0.0118%
BOEING CO/THE	BA	16,076.25 102,656.06	0.60%	0.00% 1.40%	12.51%	12.98%	0.0783%
BANK OF AMERICA CORP	BAC	170,114.17	1.00%	0.25%	8.17%	8.43%	0.0783%
BAXTER INTERNATIONAL INC	BAX	37,663.21	0.22%	2.66%	10.50%	13.30%	0.0294%
BED BATH & BEYOND INC	BBBY	17,237.62	0.22 %	0.00%	13.56%	13.56%	0.0137%
BB&T CORP	BBT	26,152.72	0.15%	2.48%	6.40%	8.96%	0.0138%
BEST BUY CO INC	BBY	13,996.01	0.08%	1.67%	10.45%	12.21%	0.0100%
CR BARD INC	BCR	10,301.77	0.06%	0.61%	10.80%	11.44%	0.0069%
BECTON DICKINSON AND CO	BDX	21,197.81	0.12%	1.92%	8.61%	10.61%	0.0132%
BEAM INC	BEAM	10,961.51	0.06%	1.34%	10.22%	11.63%	0.0075%
FRANKLIN RESOURCES INC	BEN	36,027.05	0.21%	0.94%	13.41%	14.41%	0.0305%
BROWN-FORMAN CORP-CLASS B	BF/B	15,887.34	0.09%	1.46%	11.54%	13.08%	0.0122%
BAKER HUGHES INC				1.09%	17.90%	19.08%	0.0275%
	BHI	24,488.22	0.14%	1.09%	17.5070	10.0070	
BIOGEN IDEC INC		24,488.22 65,804.20	0.14% 0.39%	0.00%	21.06%	21.06%	0.0814%
	BHI						
BIOGEN IDEC INC	BHI BIIB	65,804.20	0.39%	0.00%	21.06%	21.06%	0.0814%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
Company	TICKEI	Capitalization	Weight in Index	Dividend Heid	Glowin Est.	DOI Result	Der Result
BEMIS COMPANY	BMS	4,217.48	0.02%	2.56%	6.00%	8.64%	0.0021%
BRISTOL-MYERS SQUIBB CO BROADCOM CORP-CL A	BMY BRCM	87,299.70 16,579.92	0.51% 0.10%	2.64% 1.51%	13.20% 12.03%	16.02% 13.63%	0.0822% 0.0133%
BERKSHIRE HATHAWAY INC-CL B	BRK/B	291,522.75	N/A	0.00%	NA	N/A	N/A
BOSTON SCIENTIFIC CORP	BSX	15,982.60	0.09%	0.00%	9.66%	9.66%	0.0091%
PEABODY ENERGY CORP	BTU	5,321.07	0.03%	1.74%	12.00%	13.84%	0.0043%
BORGWARNER INC	BWA	12,622.56	0.07%	0.37%	16.15%	16.55%	0.0123%
BOSTON PROPERTIES INC	BXP	15,326.10	0.09%	2.63%	4.85%	7.53%	0.0068%
	С	158,110.33	0.93%	0.08%	8.00%	8.08%	0.0751%
CA INC CONAGRA FOODS INC	CA CAG	15,027.44 14,176.11	0.09% 0.08%	3.01% 2.97%	6.67% 8.80%	9.78% 11.90%	0.0086% 0.0099%
CARDINAL HEALTH INC	CAG	22,643.31	0.13%	1.80%	11.00%	12.90%	0.0172%
CAMERON INTERNATIONAL CORP	CAM	14,127.14	0.08%	0.00%	14.00%	14.00%	0.0116%
CATERPILLAR INC	CAT	57,170.22	0.34%	2.31%	4.88%	7.24%	0.0243%
CHUBB CORP	CB	24,141.26	0.14%	1.83%	9.67%	11.58%	0.0164%
CBRE GROUP INC - A	CBG	8,748.79	0.05%	0.00%	13.50%	13.50%	0.0069%
CBS CORP-CLASS B NON VOTING	CBS	37,894.56	0.22%	0.78%	13.39%	14.22%	0.0317%
COCA-COLA ENTERPRISES	CCE	11,312.62	0.07%	1.84%	10.05%	11.98%	0.0080%
CROWN CASTLE INTL CORP CARNIVAL CORP	CCI CCL	24,223.45 32,402.19	0.14% 0.19%	0.00% 2.65%	18.00% 16.14%	18.00% 19.00%	0.0256% 0.0362%
CELGENE CORP	CELG	69,911.71	0.19%	0.00%	23.36%	23.36%	0.0959%
CERNER CORP	CERN	18,941.25	0.11%	0.00%	18.00%	18.00%	0.0200%
CF INDUSTRIES HOLDINGS INC	CF	13,509.74	0.08%	0.98%	9.00%	10.03%	0.0080%
CAREFUSION CORP	CFN	8,360.59	0.05%	0.00%	11.50%	11.50%	0.0056%
CHESAPEAKE ENERGY CORP	CHK	18,077.37	0.11%	1.23%	44.90%	46.40%	0.0493%
C.H. ROBINSON WORLDWIDE INC	CHRW	8,832.74	0.05%	2.37%	13.00%	15.52%	0.0081%
CIGNA CORP	CI	24,139.06	0.14%	0.04%	11.33%	11.38%	0.0161%
	CINF	8,511.01	N/A	3.19%	NA 0.21%	N/A	N/A
COLGATE-PALMOLIVE CO CLIFFS NATURAL RESOURCES INC	CL CLF	59,853.17 3,979.70	0.35% 0.02%	2.10% 2.41%	9.31% 5.00%	11.51% 7.47%	0.0405% 0.0017%
CLOROX COMPANY	CLX	11,794.68	0.07%	3.08%	8.15%	11.36%	0.0079%
COMERICA INC	CMA	8,664.48	0.05%	1.44%	6.84%	8.32%	0.0042%
COMCAST CORP-CLASS A	CMCSA	133,461.17	0.78%	1.52%	18.72%	20.38%	0.1598%
CME GROUP INC	CME	26,073.43	0.15%	2.42%	14.63%	17.22%	0.0264%
CHIPOTLE MEXICAN GRILL INC	CMG	16,361.85	0.10%	0.00%	20.79%	20.79%	0.0200%
CUMMINS INC	CMI	26,073.60	0.15%	1.53%	9.81%	11.41%	0.0175%
CMS ENERGY CORP	CMS	7,120.64	0.04%	3.83%	6.00%	9.94%	0.0042%
	CNP CNX	9,845.86	0.06%	3.61%	5.00%	8.70%	0.0050%
CONSOL ENERGY INC CAPITAL ONE FINANCIAL CORP	COF	8,729.55 44,734.90	0.05% 0.26%	1.15% 1.22%	12.00% 9.75%	13.22% 11.03%	0.0068% 0.0290%
CABOT OIL & GAS CORP	COG	16,447.98	0.10%	0.19%	35.00%	35.23%	0.0340%
COACH INC	СОН	15,829.32	0.09%	2.38%	11.12%	13.63%	0.0127%
ROCKWELL COLLINS INC	COL	9,944.45	0.06%	1.70%	7.97%	9.75%	0.0057%
CONOCOPHILLIPS	COP	86,785.99	0.51%	3.81%	7.50%	11.45%	0.0584%
COSTCO WHOLESALE CORP	COST	52,258.81	0.31%	1.08%	12.08%	13.22%	0.0406%
COVIDIEN PLC	COV	30,500.98	0.18%	1.98%	8.68%	10.75%	0.0193%
CAMPBELL SOUP CO SALESFORCE.COM INC	CPB CRM	13,405.73	0.08%	2.91%	5.46%	8.45%	0.0067%
COMPUTER SCIENCES CORP	CRM	33,002.19 8,234.97	0.19% 0.05%	0.00% 1.43%	28.50% 8.00%	28.50% 9.49%	0.0553% 0.0046%
CISCO SYSTEMS INC	csco	118,267.18	0.69%	2.68%	10.13%	12.94%	0.0899%
CSX CORP	CSX	29,011.36	0.17%	2.07%	11.50%	13.69%	0.0233%
CINTAS CORP	CTAS	7,103.43	0.04%	1.30%	11.05%	12.42%	0.0052%
CENTURYLINK INC	CTL	18,778.32	0.11%	6.80%	-0.11%	6.69%	0.0074%
COGNIZANT TECH SOLUTIONS-A	CTSH	29,983.51	0.18%	0.00%	16.39%	16.39%	0.0289%
CITRIX SYSTEMS INC	CTXS	11,558.48	0.07%	0.00%	15.26%	15.26%	0.0104%
CABLEVISION SYSTEMS-NY GRP-A	CVC	4,660.74	0.03%	3.45%	16.31%	20.04%	0.0055%
CVS CAREMARK CORP CHEVRON CORP	CVS CVX	84,115.26 239,819.67	0.49% 1.41%	1.22% 3.11%	13.86% 4.87%	15.16% 8.06%	0.0749% 0.1135%
DOMINION RESOURCES INC/VA	D	37,188.51	0.22%	3.51%	5.15%	8.75%	0.0191%
DELTA AIR LINES INC	DAL	23,989.51	0.14%	0.43%	15.91%	16.37%	0.0231%
DU PONT (E.I.) DE NEMOURS	DD	59,650.29	0.35%	2.77%	6.86%	9.72%	0.0341%
DEERE & CO	DE	33,963.12	0.20%	2.25%	7.40%	9.73%	0.0194%
DISCOVER FINANCIAL SERVICES	DFS	26,531.36	0.16%	1.34%	11.00%	12.41%	0.0193%
DOLLAR GENERAL CORP	DG	19,577.20	0.12%	0.00%	14.68%	14.68%	0.0169%
QUEST DIAGNOSTICS INC	DGX	7,749.80	0.05%	2.28%	10.78%	13.18%	0.0060%
		7,091.96	0.04%	0.64%	5.64%	6.29%	0.0026%
DANAHER CORP WALT DISNEY CO/THE	DHR DIS	53,663.47 133,799.27	0.32% 0.79%	0.13% 1.09%	13.00% 11.90%	13.14% 13.05%	0.0414% 0.1026%
DISCOVERY COMMUNICATIONS-A	DISCA	31,798.38	0.19%	0.00%	19.20%	19.20%	0.0359%
DELPHI AUTOMOTIVE PLC	DLPH	18,309.19	0.11%	1.15%	13.86%	15.09%	0.0162%
DOLLAR TREE INC	DLTR	11,748.99	0.07%	0.00%	16.68%	16.68%	0.0115%
DUN & BRADSTREET CORP	DNB	4,688.00	N/A	1.30%	NA	N/A	N/A
DENBURY RESOURCES INC	DNR	6,010.03	N/A	0.00%	NA	N/A	N/A
DIAMOND OFFSHORE DRILLING	DO	7,954.22	0.05%	6.12%	18.00%	24.68%	0.0115%
	DOV	16,350.00	0.10%	1.51%	13.50%	15.11%	0.0145%
DOW CHEMICAL CO/THE	DOW	53,584.42	0.31%	2.94%	5.50%	8.52%	0.0268%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
Company	TICKEI	Capitalization	Weight in index	Dividend Heid	Glowin Est.	Der Result	Der Result
DR PEPPER SNAPPLE GROUP INC	DPS	9,622.84	0.06%	3.14%	6.85%	10.09%	0.0057%
DARDEN RESTAURANTS INC DTE ENERGY COMPANY	DRI DTE	7,046.77 11,635.03	0.04% 0.07%	4.18% 3.94%	7.40% 5.13%	11.74% 9.18%	0.0049% 0.0063%
DIRECTV	DTV	36,150.41	0.21%	0.00%	14.21%	14.21%	0.0302%
DUKE ENERGY CORP	DUK	48,664.58	0.29%	4.50%	4.20%	8.80%	0.0252%
DAVITA HEALTHCARE PARTNERS I	DVA	13,665.98	0.08%	0.00%	12.92%	12.92%	0.0104%
DEVON ENERGY CORPORATION	DVN	25,033.96	0.15%	1.41%	5.00%	6.44%	0.0095%
ELECTRONIC ARTS INC	EA	7,017.08	0.04%	0.00%	15.00%	15.00%	0.0062%
EBAY INC	EBAY	70,685.04	0.42%	0.00%	14.77%	14.77%	0.0613%
ECOLAB INC CONSOLIDATED EDISON INC	ECL ED	31,407.43 15,982.91	0.18% 0.09%	0.89% 4.51%	13.20% 2.73%	14.15% 7.29%	0.0261% 0.0068%
EQUIFAX INC	EFX	8,364.66	0.05%	1.28%	12.00%	13.36%	0.0066%
EDISON INTERNATIONAL	EIX	15,065.51	0.09%	2.93%	4.43%	7.42%	0.0066%
ESTEE LAUDER COMPANIES-CL A	EL	28,832.69	0.17%	1.09%	12.05%	13.21%	0.0224%
EMC CORP/MA	EMC	51,672.53	0.30%	0.93%	13.00%	13.99%	0.0425%
EASTMAN CHEMICAL CO	EMN	12,370.58	0.07%	1.42%	7.50%	8.97%	0.0065%
EMERSON ELECTRIC CO	EMR	49,005.55	0.29%	2.48%	8.75%	11.34%	0.0327%
EOG RESOURCES INC EQUITY RESIDENTIAL	EOG EQR	45,783.32 18,734.15	0.27% 0.11%	0.44% 3.55%	12.57% 6.82%	13.03% 10.49%	0.0350% 0.0115%
EQT CORP	EQT	13,546.38	0.08%	0.14%	30.00%	30.16%	0.0240%
EXPRESS SCRIPTS HOLDING CO	ESRX	56,398.36	0.33%	0.00%	14.92%	14.92%	0.0494%
ENSCO PLC-CL A	ESV	13,400.51	0.08%	3.72%	18.00%	22.05%	0.0174%
E*TRADE FINANCIAL CORP	ETFC	5,643.44	0.03%	0.00%	40.00%	40.00%	0.0133%
EATON CORP PLC	ETN	35,755.76	0.21%	2.23%	10.80%	13.15%	0.0276%
ENTERGY CORP	ETR	11,209.15	0.07%	5.28%	-1.89%	3.35%	0.0022%
EDWARDS LIFESCIENCES CORP	EW EXC	7,147.53	0.04%	0.00%	14.89%	14.89%	0.0063% 0.0076%
EXELON CORP EXPEDITORS INTL WASH INC	EXPD	23,530.58 9,047.59	0.14% 0.05%	5.29% 1.36%	0.19% 11.40%	5.48% 12.83%	0.0068%
EXPEDIA INC	EXPE	9,021.40	0.05%	0.78%	13.13%	13.96%	0.0074%
FORD MOTOR CO	F	60,547.10	0.36%	2.61%	7.89%	10.59%	0.0377%
FASTENAL CO	FAST	13,943.91	0.08%	1.70%	17.07%	18.91%	0.0155%
FACEBOOK INC-A	FB	138,771.84	0.82%	0.00%	30.85%	30.85%	0.2515%
FREEPORT-MCMORAN COPPER	FCX	39,159.21	0.23%	4.97%	7.00%	12.14%	0.0279%
FAMILY DOLLAR STORES	FDO	7,499.11	0.04%	1.68%	11.02%	12.79%	0.0056%
FEDEX CORP FIRSTENERGY CORP	FDX FE	44,795.38 13,638.47	0.26% 0.08%	0.42% 6.75%	13.11% 2.87%	13.56% 9.71%	0.0357% 0.0078%
F5 NETWORKS INC	FFIV	6,949.08	0.04%	0.00%	17.00%	17.00%	0.0069%
FIDELITY NATIONAL INFORMATIO	FIS	15,610.22	0.09%	1.61%	11.75%	13.46%	0.0123%
FISERV INC	FISV	15,125.50	0.09%	0.00%	11.50%	11.50%	0.0102%
FIFTH THIRD BANCORP	FITB	18,592.52	0.11%	2.23%	8.77%	11.10%	0.0121%
FLIR SYSTEMS INC	FLIR	4,188.74	0.02%	1.22%	12.50%	13.79%	0.0034%
FLUOR CORP	FLR	13,035.53	0.08%	0.75%	13.40%	14.20%	0.0109%
FLOWSERVE CORP FMC CORP	FLS FMC	10,872.97 9,992.87	0.06% 0.06%	0.71% 0.89%	14.33% 10.50%	15.09% 11.43%	0.0096% 0.0067%
FOSSIL GROUP INC	FOSL	6,583.70	0.04%	0.00%	16.05%	16.05%	0.0062%
TWENTY-FIRST CENTURY FOX-A	FOXA	80,481.65	0.47%	0.67%	15.33%	16.05%	0.0759%
FOREST LABORATORIES INC	FRX	16,089.07	0.09%	0.00%	47.15%	47.15%	0.0446%
FIRST SOLAR INC	FSLR	5,445.34	0.03%	0.00%	0.00%	0.00%	0.0000%
FMC TECHNOLOGIES INC	FTI	12,335.73	0.07%	0.00%	18.00%	18.00%	0.0130%
FRONTIER COMMUNICATIONS CORP	FTR	4,627.90	0.03%	8.64%	10.75%	19.85%	0.0054%
AGL RESOURCES INC GANNETT CO	GAS GCI	5,535.55 6,713.75	0.03% 0.04%	4.00% 2.72%	5.50% 4.50%	9.61% 7.28%	0.0031% 0.0029%
GENERAL DYNAMICS CORP	GD	33,613.80	0.20%	2.26%	8.00%	10.35%	0.0204%
GENERAL ELECTRIC CO	GE	279,745.25	1.64%	2.79%	9.25%	12.17%	0.2000%
GENERAL GROWTH PROPERTIES	GGP	18,287.39	0.11%	2.53%	8.84%	11.48%	0.0123%
GRAHAM HOLDINGS CO-CLASS B	GHC	4,880.55	N/A	0.00%	NA	N/A	N/A
GILEAD SCIENCES INC	GILD	114,679.18	0.67%	0.00%	34.55%	34.55%	0.2328%
GENERAL MILLS INC	GIS	30,877.08	0.18%	3.07%	8.33%	11.53%	0.0209%
CORNING INC GENERAL MOTORS CO	GLW GM	25,644.42 56,253.44	0.15% 0.33%	2.21% 0.00%	11.67% 12.67%	14.00% 12.67%	0.0211% 0.0419%
GAMESTOP CORP-CLASS A	GME	5,608.71	0.03%	2.40%	15.30%	17.89%	0.0059%
GENWORTH FINANCIAL INC-CL A	GNW	7,631.37	0.04%	0.00%	5.00%	5.00%	0.0022%
GOOGLE INC-CL A	GOOG	371,658.88	2.18%	0.00%	18.01%	18.01%	0.3933%
GENUINE PARTS CO	GPC	12,714.40	0.07%	2.60%	8.33%	11.03%	0.0082%
GAP INC/THE	GPS	17,640.22	0.10%	1.62%	12.93%	14.65%	0.0152%
GARMIN LTD	GRMN	8,814.26	0.05%	3.99%	3.94%	8.01%	0.0041%
GOLDMAN SACHS GROUP INC	GS GT	83,687.24	0.49%	1.17%	6.52% 24.04%	7.72%	0.0380%
GOODYEAR TIRE & RUBBER CO WW GRAINGER INC	GWW	5,834.18 17,675.69	0.03% 0.10%	0.28% 1.39%	24.04% 13.98%	24.36% 15.46%	0.0083% 0.0161%
HALLIBURTON CO	HAL	42,945.70	0.25%	1.02%	18.14%	19.25%	0.0486%
HARMAN INTERNATIONAL	HAR	5,498.63	0.03%	0.64%	15.00%	15.69%	0.0051%
HASBRO INC	HAS	7,150.78	0.04%	2.75%	9.00%	11.87%	0.0050%
HUNTINGTON BANCSHARES INC	HBAN	8,022.80	0.05%	1.97%	5.25%	7.27%	0.0034%
HUDSON CITY BANCORP INC	HCBK	4,972.42	N/A	2.04%	NA	N/A	N/A
	HCN	15,446.77	0.09%	5.72%	4.83%	10.69%	0.0097%
HCP INC	HCP	16,562.66	0.10%	5.79%	4.53%	10.45%	0.0102%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Resul
Company	Tioner	eapitalization	Trongine in indok	Difficient field	0.0111 201	Der Hobalt	201 11000
IOME DEPOT INC	HD	115,953.41	0.68%	1.91%	17.04%	19.11%	0.1302%
	HES	27,884.38	0.16%	0.87%	4.31%	5.19%	0.0085%
IARTFORD FINANCIAL SVCS GRP IARLEY-DAVIDSON INC	HIG HOG	16,054.76 15,201.17	0.09% 0.09%	1.36% 1.22%	9.50% 12.25%	10.92% 13.54%	0.0103% 0.0121%
ONEYWELL INTERNATIONAL INC	HON	71,256.13	0.42%	1.83%	10.50%	12.43%	0.0121%
TARWOOD HOTELS & RESORTS	HOT	15,190.72	0.09%	1.70%	10.73%	12.52%	0.0112%
ELMERICH & PAYNE	HP	9,028.94	0.05%	2.32%	8.00%	10.41%	0.0055%
EWLETT-PACKARD CO	HPQ	53,006.74	0.31%	2.14%	3.15%	5.32%	0.0166%
&R BLOCK INC	HRB	7,972.01	0.05%	2.75%	12.33%	15.25%	0.0071%
ORMEL FOODS CORP	HRL	11,830.83	0.07%	1.68%	11.00%	12.77%	0.0089%
ARRIS CORP	HRS	7,362.57	0.04%	2.44%	3.00%	5.48%	0.0024%
OSPIRA INC	HSP	6,804.20	0.04%	0.00%	10.31%	10.31%	0.0041%
OST HOTELS & RESORTS INC	HST	14,596.26	0.09%	2.29%	10.35%	12.76%	0.0109%
ERSHEY CO/THE	HSY	21,430.30	0.13%	1.85%	8.88%	10.81%	0.0136%
	HUM	16,118.32	0.09%	1.02%	11.00%	12.08%	0.0114%
ITL BUSINESS MACHINES CORP	IBM	201,979.77	1.19%	1.98%	9.33%	11.41%	0.1354%
ITERCONTINENTALEXCHANGE GRO	ICE	25,708.49	0.15%	0.29%	21.80%	22.13%	0.0334%
ITL FLAVORS & FRAGRANCES	IFF	7,037.85	0.04%	1.68%	6.50%	8.23%	0.0034%
	IGT INTC	4,694.40	0.03%	2.24%	14.00%	16.40%	0.0045%
ITEL CORP ITUIT INC	INTU	127,108.47 21,589.01	0.75% 0.13%	3.57% 0.97%	8.64% 12.82%	12.37% 13.86%	0.0924% 0.0176%
ITERNATIONAL PAPER CO	INTO	21,589.01 21,799.65	0.13%	0.97% 2.58%	8.67%	13.86%	0.0176%
ITERPUBLIC GROUP OF COS INC	IPG	7,607.82	0.13%	2.58%	6.17%	7.92%	0.0145%
IGERSOLL-RAND PLC	IR	17,737.49	0.10%	1.36%	11.20%	12.64%	0.0033 %
RON MOUNTAIN INC	IRM	5.814.94	0.03%	3.55%	13.50%	17.29%	0.0059%
ITUITIVE SURGICAL INC	ISRG	14,459.82	0.08%	0.00%	13.54%	13.54%	0.0115%
LINOIS TOOL WORKS	ITW	37,149.23	0.22%	1.73%	9.58%	11.39%	0.0249%
IVESCO LTD	IVZ	16,016.62	0.09%	2.46%	13.43%	16.05%	0.0151%
ABIL CIRCUIT INC	JBL	3,447.72	0.02%	1.92%	11.00%	13.03%	0.0026%
OHNSON CONTROLS INC	JCI	34,448.65	0.20%	1.68%	15.17%	16.97%	0.0343%
COBS ENGINEERING GROUP INC	JEC	8,443.30	0.05%	0.95%	13.93%	14.94%	0.0074%
HNSON & JOHNSON	JNJ	257,738.40	1.51%	2.85%	6.90%	9.85%	0.1491%
JNIPER NETWORKS INC	JNPR	11,367.65	0.07%	0.00%	11.14%	11.14%	0.0074%
DY GLOBAL INC	JOY	5,829.10	0.03%	1.24%	2.57%	3.83%	0.0013%
MORGAN CHASE & CO	JPM	219,123.14	1.29%	2.47%	6.82%	9.37%	0.1207%
ORDSTROM INC	JWN	11,999.75	0.07%	1.78%	11.40%	13.28%	0.0094%
ELLOGG CO	K	22,130.25	0.13%	2.93%	7.00%	10.03%	0.0130%
EYCORP	KEY	11,997.47	0.07%	1.64%	5.00%	6.69%	0.0047%
MCO REALTY CORP	KIM	8,128.25	0.05%	4.27%	4.69%	9.06%	0.0043%
	KLAC	10,608.90	0.06%	2.72%	16.07%	19.01%	0.0118%
MBERLY-CLARK CORP NDER MORGAN INC	KMB	39,870.75	0.23%	3.05%	7.65%	10.82%	0.0253%
ARMAX INC	KMI KMX	37,435.61 10,468.19	0.22% 0.06%	4.45% 0.00%	45.00% 13.26%	50.45% 13.26%	0.1109% 0.0082%
OCA-COLA CO/THE	KO	180,125.49	1.06%	2.72%	7.42%	10.24%	0.0082%
ICHAEL KORS HOLDINGS LTD	KORS	16,803.40	0.10%	0.00%	25.65%	25.65%	0.1084%
ROGER CO	KR	20,320.14	0.12%	1.49%	9.26%	10.82%	0.0129%
RAFT FOODS GROUP INC	KRFT	31,962.60	0.19%	3.80%	9.00%	12.97%	0.0244%
OHLS CORP	KSS	12,302.34	0.07%	2.26%	8.35%	10.71%	0.0077%
ANSAS CITY SOUTHERN	KSU	13,501.74	0.08%	0.68%	16.50%	17.23%	0.0137%
DEWS CORP	L	18,591.49	N/A	0.52%	NA	N/A	N/A
BRANDS INC	LB	18,064.22	0.11%	1.93%	11.58%	13.61%	0.0144%
EGGETT & PLATT INC	LEG	4,352.13	0.03%	3.80%	15.00%	19.08%	0.0049%
ENNAR CORP-A	LEN	7,461.46	0.04%	0.34%	4.67%	5.02%	0.0022%
BORATORY CRP OF AMER HLDGS	LH	8,005.84	0.05%	0.00%	11.56%	11.56%	0.0054%
FE TECHNOLOGIES CORP	LIFE	13,100.39	0.08%	0.00%	10.35%	10.35%	0.0080%
3 COMMUNICATIONS HOLDINGS	LLL	9,405.82	0.06%	2.07%	2.35%	4.44%	0.0025%
NEAR TECHNOLOGY CORP	LLTC	10,563.08	0.06%	2.33%	10.70%	13.16%	0.0082%
LI LILLY & CO	LLY	57,481.66	0.34%	3.84%	-0.85%	2.97%	0.0100%
GG MASON INC	LM	5,195.66	0.03%	1.20%	54.83%	56.36%	0.0172%
OCKHEED MARTIN CORP	LMT	47,258.13	0.28%	3.24%	6.88%	10.23%	0.0284%
NCOLN NATIONAL CORP	LNC	13,321.99	0.08%	0.96%	10.00%	11.00%	0.0086%
	LO	18,646.60	0.11%	4.35%	11.36%	15.96%	0.0175%
	LOW	52,029.98	0.31%	1.41%	17.23%	18.77%	0.0574%
M RESEARCH CORP	LRCX	8,761.04	0.05%	0.00%	22.45%	22.45%	0.0116%
	LSI	6,002.47	0.04%	0.38%	15.33%	15.74%	0.0056%
UCADIA NATIONAL CORP DUTHWEST AIRLINES CO	LUK LUV	10,378.39	N/A 0.08%	0.00% 0.75%	NA 24.38%	N/A 25.22%	N/A 0.0196%
ONDELLBASELL INDU-CL A	LUV LYB	13,202.85 43,900.45	0.08%	0.75% 2.31%	24.38% 8.25%	25.22% 10.65%	0.0196%
ACY'S INC	M	43,900.45 19,798.54	0.26%	2.31% 1.82%	8.25% 11.88%	13.80%	0.0275% 0.0161%
ACTS INC ASTERCARD INC-CLASS A	MA	100,229.99	0.12%	0.23%	19.44%	19.69%	0.0161%
ACERICH CO/THE	MAC	8,246.89	0.05%	4.05%	5.19%	9.34%	0.0045%
ARRIOTT INTERNATIONAL -CL A	MAC	14,665.40	0.09%	1.26%	12.93%	9.34% 14.26%	0.0043%
ASCO CORP	MAR	8,167.87	0.05%	1.33%	19.00%	20.46%	0.00123%
ATTEL INC	MAS	16,065.48	0.09%	3.03%	9.00%	12.17%	0.0098%
CDONALD'S CORP	MCD	96,328.87	0.57%	3.23%	9.00% 8.97%	12.34%	0.0698%
		50,520.07	0.05%	3.12%	10.00%	13.27%	0.0000/0

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
MCKESSON CORP	MCK	36,659.57	0.22%	0.54%	13.13%	13.71%	0.0295%
MOODY'S CORP	MCO	16,590.20	0.10%	1.18%	13.50%	14.76%	0.0144%
MONDELEZ INTERNATIONAL INC-A	MDLZ	61,365.03	0.36%	1.54%	12.19%	13.82%	0.0498%
MEDTRONIC INC	MDT	57,105.63	0.34%	1.97%	7.94%	9.99%	0.0335%
METLIFE INC	MET	59,561.74	0.35%	1.92%	8.00%	9.99%	0.0350%
MCGRAW HILL FINANCIAL INC	MHFI	20,800.15	0.12%	1.46%	10.00%	11.53%	0.0141%
MOHAWK INDUSTRIES INC	MHK MJN	10,839.26 16.659.73	0.06%	0.00%	23.50%	23.50% 12.59%	0.0150%
MEAD JOHNSON NUTRITION CO MCCORMICK & CO-NON VTG SHRS	MKC	9,043.04	0.10% N/A	1.64% 1.98%	10.86% NA	N/A	0.0123% N/A
MARSH & MCLENNAN COS	MMC	26,346.72	0.15%	2.01%	12.00%	14.13%	0.0219%
3M CO	MMM	92,435.36	0.54%	1.83%	11.53%	13.47%	0.0732%
MONSTER BEVERAGE CORP	MNST	11,361.54	0.07%	0.00%	12.83%	12.83%	0.0086%
ALTRIA GROUP INC	MO	76,388.06	0.45%	4.83%	7.69%	12.71%	0.0570%
MONSANTO CO	MON	61,338.98	0.36%	1.40%	13.60%	15.10%	0.0544%
MOSAIC CO/THE	MOS	20,234.08	0.12%	2.11%	7.67%	9.85%	0.0117%
MARATHON PETROLEUM CORP MERCK & CO. INC.	MPC MRK	27,498.79 145,336.74	0.16% 0.85%	1.67% 3.46%	8.41% 2.25%	10.15% 5.75%	0.0164% 0.0491%
MARATHON OIL CORP	MRO	24,584.22	0.14%	2.03%	15.35%	17.54%	0.0253%
MORGAN STANLEY	MS	60,784.25	0.36%	0.64%	12.21%	12.89%	0.0460%
MICROSOFT CORP	MSFT	310,293.98	1.82%	2.82%	8.29%	11.23%	0.2048%
MOTOROLA SOLUTIONS INC	MSI	17,336.33	0.10%	1.61%	7.00%	8.66%	0.0088%
M & T BANK CORP	MTB	15,123.52	0.09%	2.41%	13.00%	15.57%	0.0138%
MICRON TECHNOLOGY INC	MU	22,883.17	0.13%	0.00%	12.84%	12.84%	0.0173%
	MUR	12,060.38	0.07%	1.95%	13.00%	15.08%	0.0107%
MEADWESTVACO CORP MYLAN INC	MWV MYL	6,576.21 16,432.22	0.04% 0.10%	2.70% 0.00%	10.00% 11.70%	12.84% 11.70%	0.0050% 0.0113%
NOBLE ENERGY INC	NBL	24,215.27	0.10%	0.82%	12.58%	13.45%	0.0191%
NABORS INDUSTRIES LTD	NBR	5,041.44	0.03%	0.63%	3.85%	4.48%	0.0013%
NASDAQ OMX GROUP/THE	NDAQ	6,667.85	0.04%	1.31%	12.77%	14.16%	0.0055%
NOBLE CORP PLC	NE	9,515.44	0.06%	2.19%	13.67%	16.01%	0.0089%
NEXTERA ENERGY INC	NEE	36,999.09	0.22%	3.10%	5.98%	9.18%	0.0200%
NEWMONT MINING CORP	NEM	11,916.26	0.07%	4.77%	2.00%	6.82%	0.0048%
NETFLIX INC	NFLX	21,593.54	0.13%	0.00%	28.33%	28.33%	0.0359%
NEWFIELD EXPLORATION CO	NFX	3,345.91	0.02%	0.00%	11.50%	11.50%	0.0023%
NISOURCE INC NIKE INC -CL B	NI NKE	10,235.34 69,741.13	0.06% 0.41%	3.01% 1.16%	4.00% 12.76%	7.08% 13.99%	0.0043% 0.0573%
NIELSEN HOLDINGS NV	NLSN	17,291.02	0.41%	1.53%	11.25%	12.87%	0.0131%
NORTHROP GRUMMAN CORP	NOC	25,355.76	0.15%	2.06%	8.00%	10.14%	0.0151%
NATIONAL OILWELL VARCO INC	NOV	34,325.07	0.20%	1.08%	11.30%	12.44%	0.0251%
NRG ENERGY INC	NRG	9,272.34	N/A	1.63%	NA	N/A	N/A
NORFOLK SOUTHERN CORP	NSC	28,478.44	0.17%	2.22%	14.25%	16.63%	0.0278%
NETAPP INC	NTAP	13,844.04	0.08%	1.56%	14.00%	15.67%	0.0127%
NORTHERN TRUST CORP	NTRS	14,788.33	0.09%	1.99%	11.12%	13.21%	0.0115%
NORTHEAST UTILITIES	NU NUE	13,274.91	0.08% 0.10%	3.48% 2.77%	7.00% 7.33%	10.61% 10.21%	0.0083% 0.0101%
NUCOR CORP NVIDIA CORP	NVDA	16,865.19 9,011.29	0.05%	1.96%	9.25%	11.30%	0.0060%
NEWELL RUBBERMAID INC	NWL	9,265.07	0.05%	1.89%	10.03%	12.01%	0.0065%
NEWS CORP - CLASS A	NWSA	10,452.52	0.06%	0.43%	6.00%	6.44%	0.0040%
OWENS-ILLINOIS INC	OI	5,842.45	0.03%	0.00%	9.54%	9.54%	0.0033%
ONEOK INC	OKE	12,736.14	0.07%	2.40%	11.00%	13.53%	0.0101%
OMNICOM GROUP	OMC	19,168.24	0.11%	2.02%	7.80%	9.89%	0.0111%
	ORCL	170,047.03	1.00%	1.26%	11.00%	12.33%	0.1232%
	ORLY	13,815.76	0.08%	0.00%	19.00%	19.00%	0.0154%
OCCIDENTAL PETROLEUM CORP PAYCHEX INC	OXY PAYX	76,390.30 16,440.54	0.45% 0.10%	2.60% 3.06%	7.25% 9.33%	9.94% 12.54%	0.0446% 0.0121%
PEOPLE'S UNITED FINANCIAL	PBCT	4,817.86	0.03%	4.29%	6.50%	10.93%	0.0031%
PITNEY BOWES INC	PBI	4,704.41	0.03%	4.01%	8.50%	12.69%	0.0035%
PACCAR INC	PCAR	20,767.49	0.12%	2.45%	10.25%	12.83%	0.0157%
P G & E CORP	PCG	18,070.66	0.11%	4.53%	3.44%	8.05%	0.0085%
PLUM CREEK TIMBER CO	PCL	8,252.85	0.05%	3.70%	5.00%	8.79%	0.0043%
PRICELINE.COM INC	PCLN	59,212.67	0.35%	0.00%	20.00%	20.00%	0.0696%
PRECISION CASTPARTS CORP	PCP	38,957.69	0.23%	0.04%	11.87%	11.91%	0.0273%
PATTERSON COS INC PUBLIC SERVICE ENTERPRISE GP	PDCO PEG	4,304.69 16,091.45	0.03% 0.09%	1.59% 4.53%	9.33% 1.31%	11.00% 5.86%	0.0028% 0.0055%
PEPSICO INC	PEG	126,307.26	0.09%	4.53% 2.72%	7.78%	5.86% 10.60%	0.0055%
PETSMART INC	PETM	7,542.21	0.04%	0.68%	13.98%	14.71%	0.0065%
PFIZER INC	PFE	196,765.31	1.16%	3.15%	5.02%	8.25%	0.0953%
PRINCIPAL FINANCIAL GROUP	PFG	14,385.88	0.08%	2.00%	11.50%	13.61%	0.0115%
PROCTER & GAMBLE CO/THE	PG	219,442.77	1.29%	3.06%	9.18%	12.39%	0.1597%
PROGRESSIVE CORP	PGR	16,295.90	0.10%	2.92%	7.67%	10.70%	0.0102%
PARKER HANNIFIN CORP	PH	19,072.34	0.11%	1.45%	9.75%	11.27%	0.0126%
PULTEGROUP INC	PHM	7,730.10	0.05%	0.56%	28.95%	29.60%	0.0134%
	PKI	4,612.59	0.03%	0.68%	11.00%	11.72%	0.0032%
PROLOGIS INC PALL CORP	PLD PLL	18,437.81 9,408.31	0.11% 0.06%	3.03% 1.22%	8.26% 12.04%	11.41% 13.33%	0.0124% 0.0074%
PALL CORP PHILIP MORRIS INTERNATIONAL	PLL PM	138,331.03	0.08%	4.13%	8.98%	13.30%	0.1081%
	1 171	100,001.00	0.0170	7.1070	0.30 /0	10.00 /0	0.1001/0

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
			0				
PNC FINANCIAL SERVICES GROUP PENTAIR LTD-REGISTERED	PNC PNR	41,025.52 15,438.41	0.24% 0.09%	2.23% 1.24%	5.02% 15.50%	7.31% 16.83%	0.0176% 0.0153%
PINNACLE WEST CAPITAL	PNW	5,808.17	0.03%	4.20%	4.52%	8.81%	0.0030%
PEPCO HOLDINGS INC	POM	4,750.37	0.03%	5.68%	4.86%	10.68%	0.0030%
PPG INDUSTRIES INC	PPG	26,936.01	0.16%	1.27%	8.23%	9.56%	0.0151%
PPL CORPORATION	PPL	18,850.77	0.11%	4.91%	5.00%	10.03%	0.0111%
PERRIGO CO PLC	PRGO	20,359.97	0.12%	0.23%	15.65%	15.90%	0.0190%
PRUDENTIAL FINANCIAL INC	PRU	42,160.78	0.25%	1.80%	11.00%	12.90%	0.0320%
PUBLIC STORAGE PHILLIPS 66	PSA PSX	25,810.03 46,278.22	0.15% 0.27%	3.43% 1.71%	5.79% 7.50%	9.32% 9.28%	0.0141% 0.0252%
PVH CORP	PVH	11,131.66	0.07%	0.13%	13.67%	13.81%	0.0090%
QUANTA SERVICES INC	PWR	6,696.57	0.04%	0.00%	22.55%	22.55%	0.0089%
PRAXAIR INC	PX	38,217.20	0.22%	1.85%	10.63%	12.57%	0.0282%
PIONEER NATURAL RESOURCES CO	PXD	25,089.14	0.15%	0.04%	19.92%	19.96%	0.0294%
QUALCOMM INC	QCOM	123,835.63	0.73%	1.92%	14.50%	16.56%	0.1205%
QEP RESOURCES INC	QEP	5,489.59	0.03%	0.26%	15.00%	15.28%	0.0049%
RYDER SYSTEM INC	R	3,852.98	0.02%	1.75%	10.40%	12.24%	0.0028%
REYNOLDS AMERICAN INC ROWAN COMPANIES PLC-A	RAI RDC	26,709.23 4,361.94	0.16% 0.03%	5.06% 0.00%	7.97% 23.00%	13.24% 23.00%	0.0208% 0.0059%
REGENERON PHARMACEUTICALS	REGN	27,123.73	0.16%	0.00%	28.46%	28.46%	0.0454%
REGIONS FINANCIAL CORP	RF	13,692.87	0.08%	1.01%	7.00%	8.04%	0.0065%
ROBERT HALF INTL INC	RHI	5,785.04	0.03%	1.52%	12.50%	14.12%	0.0048%
RED HAT INC	RHT	10,503.95	0.06%	0.00%	16.00%	16.00%	0.0099%
TRANSOCEAN LTD	RIG	17,845.63	0.10%	3.93%	18.00%	22.29%	0.0234%
RALPH LAUREN CORP	RL	16,066.05	0.09%	0.98%	12.81%	13.85%	0.0131%
ROCKWELL AUTOMATION INC	ROK	16,252.67	0.10%	1.90%	10.63%	12.63%	0.0121%
ROPER INDUSTRIES INC ROSS STORES INC	ROP ROST	13,708.69	0.08%	0.55%	15.00% 12.20%	15.59% 13.13%	0.0126%
RANGE RESOURCES CORP	RRC	16,142.29 13.756.83	0.09% 0.08%	0.88% 0.19%	27.00%	27.22%	0.0125% 0.0220%
REPUBLIC SERVICES INC	RSG	11,929.93	0.07%	2.77%	1.65%	4.44%	0.0031%
RAYTHEON COMPANY	RTN	28,643.86	0.17%	2.41%	9.25%	11.77%	0.0198%
STARBUCKS CORP	SBUX	58,271.07	0.34%	1.38%	18.22%	19.73%	0.0675%
SCANA CORP	SCG	6,569.26	0.04%	4.34%	6.00%	10.47%	0.0040%
SCHWAB (CHARLES) CORP	SCHW	33,416.51	0.20%	0.93%	19.29%	20.31%	0.0399%
SPECTRA ENERGY CORP	SE	23,705.98	0.14%	3.47%	5.50%	9.07%	0.0126%
SEALED AIR CORP	SEE	6,665.91	0.04%	1.48%	7.00%	8.54%	0.0033%
SHERWIN-WILLIAMS CO/THE SIGMA-ALDRICH	SHW SIAL	18,539.89 11,171.99	0.11% 0.07%	1.09% 0.93%	14.50% 6.54%	15.67% 7.51%	0.0171% 0.0049%
JM SMUCKER CO/THE	SJM	10,793.49	0.06%	2.24%	8.00%	10.33%	0.0066%
SCHLUMBERGER LTD	SLB	118,354.74	0.70%	1.37%	16.53%	18.02%	0.1253%
SLM CORP	SLM	11,451.93	N/A	2.29%	NA	N/A	N/A
SNAP-ON INC	SNA	6,355.19	0.04%	0.00%	10.00%	10.00%	0.0037%
SANDISK CORP	SNDK	15,762.71	0.09%	0.59%	20.76%	21.41%	0.0198%
SCRIPPS NETWORKS INTER-CL A	SNI	12,503.95	0.07%	0.70%	12.58%	13.32%	0.0098%
SOUTHERN CO/THE	SO	36,098.46	0.21%	4.93%	4.50%	9.54%	0.0202%
SIMON PROPERTY GROUP INC STAPLES INC	SPG SPLS	47,421.09 10,432.67	0.28% 0.06%	3.05% 3.04%	7.13% 7.24%	10.28% 10.39%	0.0287% 0.0064%
STAFLES INC	SRCL	9.867.84	0.06%	0.00%	16.14%	16.14%	0.0094%
SEMPRA ENERGY	SRE	21,756.48	0.13%	2.84%	7.00%	9.94%	0.0127%
SUNTRUST BANKS INC	STI	19,711.74	0.12%	0.95%	14.25%	15.27%	0.0177%
ST JUDE MEDICAL INC	STJ	18,054.48	0.11%	1.60%	10.30%	11.98%	0.0127%
STATE STREET CORP	STT	32,253.42	0.19%	1.41%	12.20%	13.70%	0.0260%
SEAGATE TECHNOLOGY	STX	18,091.11	0.11%	2.96%	6.52%	9.58%	0.0102%
CONSTELLATION BRANDS INC-A	STZ	13,181.38	0.08%	0.00%	23.41%	23.41%	0.0181%
STANLEY BLACK & DECKER INC	SWK	14,238.90	0.08%	2.46%	10.40%	12.99%	0.0109%
SOUTHWESTERN ENERGY CO SAFEWAY INC	SWN SWY	13,855.53 7,868.79	N/A 0.05%	0.00% 2.22%	NA 13.48%	N/A 15.84%	N/A 0.0073%
STRYKER CORP	SYK	28,241.41	0.05%	1.42%	8.71%	10.20%	0.0073%
SYMANTEC CORP	SYMC	16,287.14	0.10%	2.84%	7.27%	10.20%	0.0098%
SYSCO CORP	SYY	21,035.68	0.12%	3.20%	8.50%	11.84%	0.0146%
AT&T INC	Т	185,750.40	1.09%	5.14%	5.53%	10.81%	0.1180%
MOLSON COORS BREWING CO -B	TAP	10,107.39	0.06%	2.36%	4.82%	7.23%	0.0043%
TERADATA CORP	TDC	7,429.21	0.04%	0.00%	14.50%	14.50%	0.0063%
TECO ENERGY INC	TE	3,748.45	0.02%	5.11%	4.50%	9.72%	0.0021%
INTEGRYS ENERGY GROUP INC	TEG	4,331.15	0.03%	5.01%	5.00%	10.14%	0.0026%
TE CONNECTIVITY LTD TARGET CORP	TEL TGT	22,406.43 40,327.20	0.13% 0.24%	1.84% 2.41%	15.00% 11.14%	16.98% 13.68%	0.0223% 0.0324%
TENET HEALTHCARE CORP	THC	40,327.20	0.24%	0.00%	10.33%	10.33%	0.0026%
TIFFANY & CO	TIF	11,978.92	0.07%	1.44%	14.17%	15.71%	0.0111%
TJX COMPANIES INC	TJX	45,552.29	0.27%	0.87%	11.47%	12.39%	0.0332%
TORCHMARK CORP	TMK	7,015.66	0.04%	0.85%	8.50%	9.39%	0.0039%
THERMO FISHER SCIENTIFIC INC	TMO	39,739.56	0.23%	0.55%	8.73%	9.30%	0.0217%
TRIPADVISOR INC	TRIP	11,534.05	0.07%	0.00%	20.75%	20.75%	0.0141%
T ROWE PRICE GROUP INC	TROW	21,670.64	0.13%	1.83%	13.04%	14.99%	0.0191%
TRAVELERS COS INC/THE							
TYSON FOODS INC-CL A	TRV TSN	32,959.05 11,462.88	0.19% 0.07%	2.18% 0.80%	8.28% 8.33%	10.54% 9.17%	0.0204% 0.0062%

		[4] Market	[5]	[6] Estimated	[7]	[8]	[9] Weighted
Company	Ticker	Capitalization	Weight in Index	Dividend Yield	Long-Term Growth Est.	DCF Result	DCF Result
	TOO	7 757 40	0.05%	4.50%	0.4.49/	10 700/	0.00.400/
ESORO CORP	TSO	7,757.42	0.05%	1.52%	9.14%	10.73%	0.0049%
OTAL SYSTEM SERVICES INC	TSS	6,253.28	0.04%	1.15%	12.00%	13.22%	0.0049%
	TWC	37,970.57	0.22%	1.93%	12.05%	14.10%	0.0315%
ME WARNER INC	TWX	62,597.75	0.37%	1.66%	10.07%	11.81%	0.0434%
EXAS INSTRUMENTS INC	TXN	47,350.80	0.28%	2.44%	9.67%	12.23%	0.0340%
EXTRON INC	TXT	10,276.05	0.06%	0.22%	9.25%	9.47%	0.0057%
YCO INTERNATIONAL LTD	TYC	19,063.45	0.11%	1.66%	12.00%	13.76%	0.0154%
NITEDHEALTH GROUP INC	UNH	75,678.01	0.44%	1.38%	10.55%	11.99%	0.0533%
NUM GROUP	UNM	9,067.55	0.05%	1.59%	9.50%	11.16%	0.0059%
NION PACIFIC CORP	UNP	77,407.77	0.45%	1.74%	12.60%	14.45%	0.0657%
NITED PARCEL SERVICE-CL B	UPS	96,934.60	0.57%	2.38%	10.44%	12.94%	0.0737%
RBAN OUTFITTERS INC	URBN	5,639.01	0.03%	0.00%	17.61%	17.61%	0.0058%
S BANCORP	USB	73,070.46	0.43%	2.22%	7.00%	9.30%	0.0399%
NITED TECHNOLOGIES CORP	UTX	103,494.07	0.61%	1.97%	12.37%	14.47%	0.0880%
ISA INC-CLASS A SHARES	V	140,352.27	0.82%	0.73%	18.71%	19.52%	0.1609%
ARIAN MEDICAL SYSTEMS INC	VAR	8,214.39	0.05%	0.00%	10.00%	10.00%	0.0048%
FCORP	VFC	27,576.29	0.16%	1.44%	12.13%	13.66%	0.0221%
ACOM INC-CLASS B	VIAB	38.743.78	0.23%	1.44%	8.90%	10.40%	0.0237%
ALERO ENERGY CORP	VLO	27,199.33	0.23%	1.68%	9.21%	10.40%	0.0237 %
JLCAN MATERIALS CO	VMC	7,627.78	0.04%	0.07%	8.75%	8.82%	0.0040%
ORNADO REALTY TRUST	VNO	16,622.97	0.10%	3.19%	5.60%	8.88%	0.0087%
ERISIGN INC	VRSN	8,166.95	0.05%	0.00%	12.33%	12.33%	0.0059%
ERTEX PHARMACEUTICALS INC	VRTX	17,305.02	0.10%	0.00%	26.78%	26.78%	0.0272%
ENTAS INC	VTR	16,765.55	0.10%	4.72%	4.49%	9.31%	0.0092%
ERIZON COMMUNICATIONS INC	VZ	140,340.26	0.82%	4.26%	7.02%	11.42%	0.0942%
ALGREEN CO	WAG	54,169.26	0.32%	2.25%	13.33%	15.73%	0.0501%
ATERS CORP	WAT	8,459.40	0.05%	0.00%	10.83%	10.83%	0.0054%
ESTERN DIGITAL CORP	WDC	19,638.03	0.12%	1.29%	5.00%	6.33%	0.0073%
ISCONSIN ENERGY CORP	WEC	9,316.75	0.05%	3.53%	5.00%	8.62%	0.0047%
ELLS FARGO & CO	WFC	237,568.70	1.40%	2.55%	9.94%	12.62%	0.1761%
HOLE FOODS MARKET INC	WFM	21,338.41	0.13%	1.36%	17.09%	18.57%	0.0233%
HIRLPOOL CORP	WHR	12.276.60	0.07%	1.57%	29.85%	31.66%	0.0228%
INDSTREAM HOLDINGS INC	WIN	4,792.43	0.03%	12.44%	0.50%	12.97%	0.0037%
ELLPOINT INC	WLP	27,139.97	0.16%	1.57%	11.17%	12.82%	0.0204%
ASTE MANAGEMENT INC	WM	20,921.01	0.12%	3.27%	5.10%	8.46%	0.0104%
ILLIAMS COS INC	WMB	26,387.17	0.16%	3.73%	15.90%	19.92%	0.0309%
AL-MART STORES INC	WMT	255,237.73	1.50%	2.37%	9.10%	11.58%	0.1736%
PX ENERGY INC	WPX	4,032.24	N/A	0.00%	NA	N/A	N/A
	WFA						
ESTERN UNION CO	-	9,515.29	0.06%	2.94%	10.29%	13.37%	0.0075%
EYERHAEUSER CO	WY	18,374.28	0.11%	2.60%	5.00%	7.66%	0.0083%
YNDHAM WORLDWIDE CORP	WYN	9,610.13	N/A	1.57%	NA	N/A	N/A
YNN RESORTS LTD	WYNN	19,869.94	0.12%	2.04%	11.00%	13.15%	0.0153%
NITED STATES STEEL CORP	Х	4,392.09	0.03%	0.66%	6.00%	6.68%	0.0017%
CEL ENERGY INC	XEL	13,839.35	0.08%	4.00%	5.00%	9.10%	0.0074%
GROUP PLC	XL	8,967.92	0.05%	1.74%	12.50%	14.35%	0.0076%
LINX INC	XLNX	12,527.56	0.07%	2.14%	12.14%	14.41%	0.0106%
XON MOBIL CORP	XOM	438,380.36	2.58%	2.46%	19.78%	22.47%	0.5788%
NTSPLY INTERNATIONAL INC	XRAY	6,835.90	0.04%	0.51%	10.18%	10.72%	0.0043%
ROX CORP	XRX	14,711.82	0.09%	1.92%	10.00%	12.02%	0.0104%
LEM INC	XYL	6,353.77	0.04%	1.36%	7.15%	8.56%	0.0032%
AHOO! INC	YHOO	40,775.51	0.24%	0.00%	11.81%	11.81%	0.0283%
JM! BRANDS INC	YUM	33,520.03	0.20%	1.80%	11.22%	13.12%	0.0258%
ONS BANCORPORATION	ZION	5,525.53	0.03%	0.43%	7.67%	8.12%	0.0026%
MMER HOLDINGS INC	ZMH	15,755.89	0.09%	0.70%	10.18%	10.91%	0.0101%
DETIS INC	ZTS	16,125.22	0.09%	0.81%	13.54%	14.40%	0.0101%
	Capitalization:		0.0370	0.0170	13.0470	14.40 /0	14.01%

Notes:

Notes: [1] Equals sum of Col. [9] [2] Source: Bloomberg Professional [3] Equals [1] - [2] [4] Source: Bloomberg Professional [5] Equals weight in S&P 500 based on market capitalization [6] Source: Bloomberg Professional [7] Source: Bloomberg Professional [8] Equals ([6] x (1 + (0.5 x [7]))) + [7] [9] Equals Col. [5] x Col. [8]

Ex-Ante Market Risk Premium Market DCF Method Based - Value Line

[1]	[2]	[3]
S&P 500	Current 30-Year	
Est. Required	Treasury (30-day	Implied Market
Market Return	average)	Risk Premium
12.72%	3.87%	8.85%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
Company	TICKEI	Capitalization	weight in index	Dividend Heid	Glowin Est.	DCI Result	DCI Result
AGILENT TECHNOLOGIES INC	А	19,007.25	0.11%	0.92%	7.00%	7.95%	0.01%
ALCOA INC	AA	11,155.95	0.07%	1.15%	16.00%	17.24%	0.01%
APPLE INC	AAPL	512,270.50	3.00%	2.16%	14.50%	16.82%	0.51%
ABBVIE INC	ABBV	84,148.12	0.49%	3.02%	0.00%	3.02%	0.01%
AMERISOURCEBERGEN CORP	ABC	16,224.89	0.10%	1.34%	13.50%	14.93%	0.01%
ABBOTT LABORATORIES	ABT	59,296.19	0.35%	2.30%	-5.50%	-3.26%	-0.01%
ACE LTD	ACE	34,921.69	0.20%	2.45%	9.50%	12.07%	0.02%
ACCENTURE PLC-CL A	ACN	52,054.26	0.31%	2.26%	8.00%	10.35%	0.03%
ACTAVIS PLC	ACT	22,128.17	0.13%	0.00%	14.00%	14.00%	0.02%
ADOBE SYSTEMS INC	ADBE	29,897.60	0.18%	0.00%	6.00%	6.00%	0.01%
ANALOG DEVICES INC	ADI	15,782.42	0.09%	2.68%	11.50%	14.33%	0.01%
ARCHER-DANIELS-MIDLAND CO	ADM	28,720.39	0.17%	2.20%	6.00%	8.27%	0.01%
AUTOMATIC DATA PROCESSING	ADP	38,905.35	0.23%	2.38%	9.00%	11.49%	0.03%
ALLIANCE DATA SYSTEMS CORP	ADS	12,424.43	0.07%	0.00%	16.50%	16.50%	0.01%
AUTODESK INC	ADSK	11,142.38	0.07%	0.00%	8.00%	8.00%	0.01%
ADT CORP/THE	ADT	8,555.64	0.05%	1.22%	0.00%	1.22%	0.00%
AMEREN CORPORATION	AEE	8,721.47	0.05%	4.45%	-0.50%	3.94%	0.00%
AMERICAN ELECTRIC POWER	AEP	22,618.47	0.13%	4.35%	5.50%	9.97%	0.01%
AES CORP	AES	10,732.86	0.06%	1.38%	22.00%	23.53%	0.01%
AETNA INC	AET	25,103.92	0.15%	1.32%	11.00%	12.39%	0.02%
AFLAC INC	AFL	31,253.80	0.18%	2.21%	8.50%	10.80%	0.02%
ALLERGAN INC	AGN	32,656.34	0.19%	0.18%	12.50%	12.69%	0.02%
AMERICAN INTERNATIONAL GROUP	AIG	75,089.49	0.44%	0.78%	0.00%	0.78%	0.00%
APARTMENT INVT & MGMT CO -A	AIV	-	0.00%	3.71%	0.00%	3.71%	0.00%
ASSURANT INC	AIZ	4,860.32	0.03%	1.51%	7.50%	9.07%	0.00%
AKAMAI TECHNOLOGIES INC	AKAM	8,452.84	0.05%	0.00%	14.50%	14.50%	0.01%
ALLSTATE CORP	ALL	24,519.12	0.14%	1.86%	15.50%	17.50%	0.03%
ALLEGION PLC	ALLE	N/A	N/A	N/A	N/A	N/A	N/A
ALTERA CORP	ALTR	10,333.16	0.06%	1.87%	3.00%	4.90%	0.00%
ALEXION PHARMACEUTICALS INC	ALXN	26,054.75	0.15%	0.00%	26.50%	26.50%	0.04%
APPLIED MATERIALS INC	AMAT	20,997.76	0.12%	2.47%	19.00%	21.70%	0.03%
AMETEK INC	AME	12,866.67	0.08%	0.46%	10.50%	10.98%	0.01%
AMGEN INC	AMGN	86,238.88	0.51%	2.13%	10.00%	12.24%	0.06%
AMERIPRISE FINANCIAL INC	AMP	22,220.15	0.13%	1.83%	13.00%	14.95%	0.02%
AMERICAN TOWER CORP	AMT	31,105.06	0.18%	1.62%	20.50%	22.29%	0.04%
AMAZON.COM INC	AMZN	185,210.60	1.09%	0.00%	48.00%	48.00%	0.52%
AUTONATION INC	AN	6,176.48	0.04%	0.00%	16.00%	16.00%	0.01%
AON PLC	AON	25,128.48	0.15%	0.84%	15.50%	16.41%	0.02%
APACHE CORP	APA	34,862.25	0.20%	0.93%	8.00%	8.97%	0.02%
ANADARKO PETROLEUM CORP	APC	39,360.30	0.23%	0.92%	74.50%	75.76%	0.17%
AIR PRODUCTS & CHEMICALS INC	APD	23,828.25	0.14%	2.50%	9.00%	11.61%	0.02%
AMPHENOL CORP-CL A	APH	13,971.94	0.08%	0.91%	8.50%	9.45%	0.01%
AIRGAS INC	ARG	8,168.48	0.05%	1.92%	14.00%	16.05%	0.01%
ALLEGHENY TECHNOLOGIES INC	ATI	3,783.49	0.02%	2.06%	14.50%	16.71%	0.00%
AVALONBAY COMMUNITIES INC	AVB	-	0.00%	3.78%	0.00%	3.78%	0.00%
AVON PRODUCTS INC	AVP	7,530.23	0.04%	1.38%	16.00%	17.49%	0.01%
AVERY DENNISON CORP	AVY	4,924.45	0.03%	2.35%	10.00%	12.47%	0.00%
AMERICAN EXPRESS CO	AXP	95,586.00	0.56%	1.10%	9.00%	10.15%	0.06%
AUTOZONE INC	AZO	16,070.32	0.09%	0.00%	15.00%	15.00%	0.01%
BOEING CO/THE	BA	103,966.60	0.61%	2.11%	11.00%	13.23%	0.08%
BANK OF AMERICA CORP	BAC	167,193.40	0.98%	0.26%	0.00%	0.26%	0.00%
BAXTER INTERNATIONAL INC	BAX	37,644.16	0.22%	2.83%	8.50%	11.45%	0.03%
BED BATH & BEYOND INC	BBBY	16,760.79	0.10%	0.00%	10.50%	10.50%	0.01%
BB&T CORP	BBT	26,194.98	0.15%	2.69%	11.00%	13.84%	0.02%
BEST BUY CO INC	BBY	14,181.95	0.08%	1.73%	2.50%	4.25%	0.00%
CR BARD INC	BCR	10,417.01	0.06%	0.63%	8.50%	9.16%	0.01%
BECTON DICKINSON AND CO	BDX	21,382.74	0.13%	1.98%	8.50%	10.56%	0.01%
BEAM INC	BEAM	10,954.97	0.06%	1.34%	11.50%	12.92%	0.01%
FRANKLIN RESOURCES INC	BEN	36,350.30	0.21%	0.84%	10.50%	11.38%	0.02%
BROWN-FORMAN CORP-CLASS B	_	40.000.40	0.09%	1.55%	8.50%	10.12%	0.01%
	BF/B	16,030.16					
BAKER HUGHES INC	BHI	24,191.22	0.14%	1.10%	13.00%	14.17%	0.02%
BAKER HUGHES INC BIOGEN IDEC INC	BHI BIIB	24,191.22 66,455.89	0.14% 0.39%	0.00%	12.50%	12.50%	0.05%
BAKER HUGHES INC BIOGEN IDEC INC BANK OF NEW YORK MELLON CORP	BHI BIIB BK	24,191.22 66,455.89 39,692.88	0.14% 0.39% 0.23%	0.00% 1.74%	12.50% 10.00%	12.50% 11.83%	0.05% 0.03%
BAKER HUGHES INC BIOGEN IDEC INC	BHI BIIB	24,191.22 66,455.89	0.14% 0.39%	0.00%	12.50%	12.50%	0.05%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
· · ·		•	*				
BEMIS COMPANY BRISTOL-MYERS SQUIBB CO	BMS BMY	4,178.77 88,254.65	0.02% 0.52%	2.66% 2.69%	8.00% 10.00%	10.77% 12.82%	0.00% 0.07%
BROADCOM CORP-CL A	BRCM	16,574.24	0.10%	1.65%	3.00%	4.67%	0.00%
BERKSHIRE HATHAWAY INC-CL B	BRK/B	-	0.00%	0.00%	0.00%	0.00%	0.00%
BOSTON SCIENTIFIC CORP	BSX	16,293.63	0.10%	0.00%	11.00%	11.00%	0.01%
PEABODY ENERGY CORP	BTU	5,029.07	0.03%	1.82%	9.00%	10.90%	0.00%
BORGWARNER INC	BWA	12,686.25	0.07%	0.90%	14.00%	14.96%	0.01%
BOSTON PROPERTIES INC	BXP	-	0.00%	2.58%	0.00%	2.58%	0.00%
	C	158,777.50 14.949.24	0.93%	1.05%	14.00%	15.12%	0.14%
CA INC CONAGRA FOODS INC	CA CAG	14,949.24	0.09% 0.08%	2.99% 2.99%	5.50% 11.00%	8.57% 14.15%	0.01% 0.01%
CARDINAL HEALTH INC	CAH	23,010.68	0.13%	1.88%	12.00%	13.99%	0.02%
CAMERON INTERNATIONAL CORP	CAM	14,182.94	0.08%	0.00%	16.00%	16.00%	0.01%
CATERPILLAR INC	CAT	58,003.75	0.34%	2.63%	6.00%	8.71%	0.03%
CHUBB CORP	CB	24,123.55	0.14%	1.84%	8.00%	9.91%	0.01%
CBRE GROUP INC - A	CBG	8,621.34	0.05%	0.00%	10.50%	10.50%	0.01%
CBS CORP-CLASS B NON VOTING	CBS	37,863.00	0.22%	0.76%	13.00%	13.81%	0.03%
COCA-COLA ENTERPRISES	CCE	11,304.81	0.07%	1.98%	9.50%	11.57%	0.01%
CROWN CASTLE INTL CORP CARNIVAL CORP	CCI CCL	21,069.39	0.12%	1.93%	27.00% 5.00%	29.19% 7.59%	0.04%
CELGENE CORP	CELG	30,683.04 69,787.17	0.18% 0.41%	2.53% 0.00%	5.00% 13.50%	7.59% 13.50%	0.01% 0.06%
CERNER CORP	CERN	19,103.49	0.41%	0.00%	15.50%	15.50%	0.02%
CF INDUSTRIES HOLDINGS INC	CF	13,332.71	0.08%	1.72%	9.50%	11.30%	0.01%
CAREFUSION CORP	CFN	8,429.88	0.05%	0.00%	13.50%	13.50%	0.01%
CHESAPEAKE ENERGY CORP	CHK	17,967.55	0.11%	1.26%	7.00%	8.30%	0.01%
C.H. ROBINSON WORLDWIDE INC	CHRW	8,712.72	0.05%	2.45%	8.00%	10.55%	0.01%
CIGNA CORP	CI	24,041.16	0.14%	0.05%	10.50%	10.55%	0.01%
	CINF CL	8,590.32	0.05%	3.21% 2.24%	13.50% 10.00%	16.93% 12.35%	0.01% 0.04%
COLGATE-PALMOLIVE CO CLIFFS NATURAL RESOURCES INC	CLF	59,981.23 3,829.63	0.35% 0.02%	2.24%	-4.00%	-1.65%	0.04%
CLOROX COMPANY	CLX	11,956.64	0.07%	3.24%	12.50%	15.94%	0.01%
COMERICA INC	CMA	8,727.59	0.05%	1.43%	12.50%	14.02%	0.01%
COMCAST CORP-CLASS A	CMCSA	134,720.70	0.79%	1.51%	11.00%	12.59%	0.10%
CME GROUP INC	CME	26,635.27	0.16%	2.25%	7.00%	9.33%	0.01%
CHIPOTLE MEXICAN GRILL INC	CMG	16,563.53	0.10%	0.00%	18.00%	18.00%	0.02%
CUMMINS INC	CMI	26,026.09	0.15%	1.79%	10.50%	12.38%	0.02%
CMS ENERGY CORP	CMS	7,091.56	0.04%	4.05%	5.50%	9.66%	0.00%
CENTERPOINT ENERGY INC CONSOL ENERGY INC	CNP CNX	9,888.73	0.06%	3.68%	6.00%	9.79%	0.01%
CAPITAL ONE FINANCIAL CORP	COF	8,665.23 44,184.93	0.05% 0.26%	1.32% 1.58%	9.00% 4.00%	10.38% 5.61%	0.01% 0.01%
CABOT OIL & GAS CORP	COG	16,239.54	0.10%	0.21%	29.50%	29.74%	0.03%
COACH INC	СОН	158,635.30	0.93%	2.39%	8.50%	10.99%	0.10%
ROCKWELL COLLINS INC	COL	10,002.80	0.06%	1.62%	7.50%	9.18%	0.01%
CONOCOPHILLIPS	COP	85,989.63	0.50%	3.93%	3.50%	7.50%	0.04%
COSTCO WHOLESALE CORP	COST	52,164.22	0.31%	1.05%	11.50%	12.61%	0.04%
COVIDIEN PLC	COV	31,150.62	0.18%	1.90%	6.00%	7.96%	0.01%
CAMPBELL SOUP CO SALESFORCE.COM INC	CPB CRM	13,445.48 33,074.55	0.08% 0.19%	2.92% 0.00%	6.00% 0.00%	9.01% 0.00%	0.01% 0.00%
COMPUTER SCIENCES CORP	CSC	8,200.90	0.05%	1.44%	7.00%	8.49%	0.00%
CISCO SYSTEMS INC	CSCO	116,651.80	0.68%	3.12%	7.50%	10.74%	0.07%
CSX CORP	CSX	28,818.75	0.17%	2.11%	10.00%	12.22%	0.02%
CINTAS CORP	CTAS	7,175.42	0.04%	1.30%	9.50%	10.86%	0.00%
CENTURYLINK INC	CTL	18,902.88	0.11%	6.78%	8.00%	15.05%	0.02%
COGNIZANT TECH SOLUTIONS-A	CTSH	30,067.57	0.18%	0.00%	20.00%	20.00%	0.04%
CITRIX SYSTEMS INC	CTXS	11,465.90	0.07%	0.00%	13.50%	13.50%	0.01%
CABLEVISION SYSTEMS-NY GRP-A CVS CAREMARK CORP	CVC CVS	4,743.38 85,821.12	0.03% 0.50%	3.39% 1.54%	11.00% 11.50%	14.58% 13.13%	0.00% 0.07%
CHEVRON CORP	CVS	240,031.20	0.50% 1.41%	3.21%	5.50%	8.80%	0.07%
DOMINION RESOURCES INC/VA	D	37,397.42	0.22%	3.68%	5.00%	8.77%	0.02%
DELTA AIR LINES INC	DAL	23,725.88	0.14%	0.86%	12.50%	13.41%	0.02%
DU PONT (E.I.) DE NEMOURS	DD	59,500.00	0.35%	2.86%	8.00%	10.97%	0.04%
DEERE & CO	DE	34,884.84	0.20%	2.24%	7.50%	9.82%	0.02%
DISCOVER FINANCIAL SERVICES	DFS	26,142.10	0.15%	1.47%	8.50%	10.03%	0.02%
DOLLAR GENERAL CORP	DG	19,513.14	0.11%	0.00%	16.00%	16.00%	0.02%
QUEST DIAGNOSTICS INC DR HORTON INC	DGX DHI	7,832.27	0.05% 0.04%	2.23% 0.70%	7.00%	9.31% 29.80%	0.00% 0.01%
DANAHER CORP	DHI	6,901.29 53,628.55	0.04% 0.31%	0.70%	29.00% 12.00%	29.80% 12.14%	0.01%
WALT DISNEY CO/THE	DIS	134,316.00	0.79%	1.15%	11.50%	12.72%	0.10%
DISCOVERY COMMUNICATIONS-A	DISCA	21,751.67	0.13%	0.00%	15.00%	15.00%	0.02%
DELPHI AUTOMOTIVE PLC	DLPH	18,500.21	0.11%	1.13%	0.00%	1.13%	0.00%
DOLLAR TREE INC	DLTR	11,774.30	0.07%	0.00%	15.50%	15.50%	0.01%
DUN & BRADSTREET CORP	DNB	4,705.89	0.03%	1.30%	9.00%	10.36%	0.00%
DENBURY RESOURCES INC	DNR	5,992.86	0.04%	0.00%	13.50%	13.50%	0.00%
DIAMOND OFFSHORE DRILLING	DO	7,776.23	0.05%	6.26%	6.50%	12.96%	0.01%
DOVER CORP	DOV	16,375.48	0.10%	1.56%	11.00%	12.65%	0.01%
DOW CHEMICAL CO/THE	DOW	54,240.18	0.32%	3.12%	13.00%	16.32%	0.05%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
DR PEPPER SNAPPLE GROUP INC	DPS	9,781.31	0.06%	3.21%	7.50%	10.83%	0.01%
DARDEN RESTAURANTS INC	DRI	7,092.45	0.04%	4.05%	11.00%	15.27%	0.01%
DTE ENERGY COMPANY	DTE	11,696.89	0.07%	4.07%	5.00%	9.17%	0.01%
DIRECTV	DTV	35,774.12	0.21%	0.00%	16.50%	16.50%	0.03%
DUKE ENERGY CORP	DUK	48,551.62	0.28%	4.58%	4.00%	8.67%	0.02%
DAVITA HEALTHCARE PARTNERS I	DVA	13,481.21	0.08%	0.00%	14.00%	14.00%	0.01%
DEVON ENERGY CORPORATION ELECTRONIC ARTS INC	DVN EA	24,814.72 7,314.03	0.15% 0.04%	1.44% 0.00%	7.50% 15.50%	8.99% 15.50%	0.01% 0.01%
EBAY INC	EBAY	69,953.64	0.41%	0.00%	14.50%	14.50%	0.06%
ECOLAB INC	ECL	31,546.00	0.19%	1.05%	13.00%	14.12%	0.03%
CONSOLIDATED EDISON INC	ED	16,108.11	0.09%	4.55%	2.50%	7.11%	0.01%
EQUIFAX INC	EFX	8,404.16	0.05%	1.27%	11.00%	12.34%	0.01%
EDISON INTERNATIONAL	EIX	15,039.44	0.09%	3.08%	1.50%	4.60%	0.00%
ESTEE LAUDER COMPANIES-CL A	EL	28,955.77	0.17%	1.07%	12.00%	13.13%	0.02%
	EMC	51,487.31	0.30%	1.60%	11.50%	13.19%	0.04%
EASTMAN CHEMICAL CO EMERSON ELECTRIC CO	EMN EMR	12,151.04	0.07% 0.29%	1.77% 2.45%	13.00% 8.00%	14.89% 10.55%	0.01% 0.03%
EOG RESOURCES INC	EOG	50,179.62 45,855.85	0.29%	0.46%	24.00%	24.52%	0.03%
EQUITY RESIDENTIAL	EQR		0.00%	5.02%	0.00%	5.02%	0.00%
EQT CORP	EQT	13,608.15	0.08%	0.13%	17.00%	17.14%	0.01%
EXPRESS SCRIPTS HOLDING CO	ESRX	56,511.18	0.33%	0.00%	13.50%	13.50%	0.04%
ENSCO PLC-CL A	ESV	13,064.79	0.08%	5.36%	17.00%	22.82%	0.02%
E*TRADE FINANCIAL CORP	ETFC	5,587.18	0.03%	0.00%	0.00%	0.00%	0.00%
EATON CORP PLC	ETN	36,337.21	0.21%	2.19%	9.50%	11.79%	0.03%
ENTERGY CORP EDWARDS LIFESCIENCES CORP	ETR EW	11,120.88	0.07%	5.32% 0.00%	-3.50% 15.50%	1.73% 15.50%	0.00% 0.01%
EXELON CORP	EXC	7,153.67 23.299.19	0.04% 0.14%	4.56%	-5.50%	-1.07%	0.00%
EXPEDITORS INTL WASH INC	EXPD	8,964.00	0.05%	1.38%	7.00%	8.43%	0.00%
EXPEDIA INC	EXPE	9,109.34	0.05%	0.87%	7.00%	7.90%	0.00%
FORD MOTOR CO	F	60,468.20	0.35%	2.61%	10.00%	12.74%	0.05%
FASTENAL CO	FAST	13,985.45	0.08%	2.12%	15.00%	17.28%	0.01%
FACEBOOK INC-A	FB	140,861.20	0.83%	0.00%	0.00%	0.00%	0.00%
FREEPORT-MCMORAN COPPER	FCX	38,370.21	0.23%	3.54%	7.50%	11.17%	0.03%
FAMILY DOLLAR STORES	FDO	7,469.19	0.04%	1.60%	10.00%	11.68%	0.01%
FEDEX CORP FIRSTENERGY CORP	FDX FE	44,742.27 13,412.19	0.26% 0.08%	0.42% 6.86%	9.00% 3.50%	9.44% 10.48%	0.02% 0.01%
F5 NETWORKS INC	FFIV	6,991.07	0.08%	0.00%	13.50%	13.50%	0.01%
FIDELITY NATIONAL INFORMATIO	FIS	15,329.33	0.09%	1.67%	10.00%	11.75%	0.01%
FISERV INC	FISV	15,226.37	0.09%	0.00%	10.00%	10.00%	0.01%
FIFTH THIRD BANCORP	FITB	18,663.09	0.11%	2.42%	11.00%	13.55%	0.01%
FLIR SYSTEMS INC	FLIR	4,201.87	0.02%	1.35%	6.50%	7.89%	0.00%
FLUOR CORP	FLR	13,057.61	0.08%	0.80%	12.00%	12.85%	0.01%
FLOWSERVE CORP	FLS	10,652.65	0.06%	0.73%	11.50%	12.27%	0.01%
	FMC	10,048.78	0.06%	0.82%	12.50%	13.37%	0.01%
FOSSIL GROUP INC TWENTY-FIRST CENTURY FOX-A	FOSL FOXA	6,766.12 80,194.35	0.04% 0.47%	0.00% 0.77%	14.50% 11.00%	14.50% 11.81%	0.01% 0.06%
FOREST LABORATORIES INC	FRX	15,909.46	0.09%	0.00%	-5.00%	-5.00%	0.00%
FIRST SOLAR INC	FSLR	5,536.71	0.03%	0.00%	-3.50%	-3.50%	0.00%
FMC TECHNOLOGIES INC	FTI	12,372.31	0.07%	0.00%	20.50%	20.50%	0.01%
FRONTIER COMMUNICATIONS CORP	FTR	4,697.73	0.03%	8.51%	9.50%	18.41%	0.01%
AGL RESOURCES INC	GAS	5,598.01	0.03%	3.99%	8.00%	12.15%	0.00%
GANNETT CO	GCI	6,679.54	0.04%	2.76%	4.00%	6.82%	0.00%
GENERAL DYNAMICS CORP	GD	33,131.12	0.19%	2.36%	3.50%	5.90%	0.01%
GENERAL ELECTRIC CO GENERAL GROWTH PROPERTIES	GE GGP	281,566.40	1.65%	3.16%	12.00%	15.35%	0.25% 0.00%
GENERAL GROWTH PROPERTIES GRAHAM HOLDINGS CO-CLASS B	GGP	4,873.35	0.00% 0.03%	2.77% 1.49%	0.00% 5.00%	2.77% 6.53%	0.00%
GILEAD SCIENCES INC	GILD	115,358.90	0.68%	0.00%	9.50%	9.50%	0.06%
GENERAL MILLS INC	GIS	31,132.08	0.18%	3.08%	7.00%	10.19%	0.02%
CORNING INC	GLW	25,655.31	0.15%	2.26%	2.50%	4.79%	0.01%
GENERAL MOTORS CO	GM	58,128.00	0.34%	0.00%	11.00%	11.00%	0.04%
GAMESTOP CORP-CLASS A	GME	5,851.83	0.03%	2.42%	10.00%	12.54%	0.00%
GENWORTH FINANCIAL INC-CL A	GNW	7,691.58	0.05%	0.00%	28.00%	28.00%	0.01%
GOOGLE INC-CL A	GOOG	373,407.10	2.19%	0.00%	13.50%	13.50%	0.30%
	GPC GPS	12,816.26	0.08%	2.59%	10.00%	12.72%	0.01%
GAP INC/THE GARMIN LTD	GRS	17,497.53 8,999.69	0.10% 0.05%	2.05% 4.23%	12.50% 1.50%	14.68% 5.76%	0.02% 0.00%
GOLDMAN SACHS GROUP INC	GRIVIN	80,902.33	0.47%	4.25%	13.00%	14.33%	0.07%
GOODYEAR TIRE & RUBBER CO	GT	5,794.67	0.03%	0.85%	19.00%	19.93%	0.01%
WW GRAINGER INC	GWW	17,728.96	0.10%	1.46%	15.00%	16.57%	0.02%
HALLIBURTON CO	HAL	43,374.87	0.25%	1.17%	11.50%	12.74%	0.03%
HARMAN INTERNATIONAL	HAR	5,777.94	0.03%	1.42%	15.50%	17.03%	0.01%
HASBRO INC	HAS	7,032.08	0.04%	2.95%	7.00%	10.05%	0.00%
HUNTINGTON BANCSHARES INC	HBAN	8,010.89	0.05%	2.07%	10.50%	12.68%	0.01%
	HCBK	4,660.85	0.03%	1.71%	68.00%	70.29%	0.02%
HEALTH CARE REIT INC HCP INC	HCN HCP	-	0.00% 0.00%	5.99% 5.98%	94.50% 0.00%	103.32% 5.98%	0.00% 0.00%
			5.0070	5.0070	5.0070	5.0070	5.0070

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
HOME DEPOT INC	HD	114,822.40	0.67%	1.91%	15.00%	17.05%	0.11%
HESS CORP	HES	28,001.40	0.16%	1.21%	3.50%	4.73%	0.01%
HARTFORD FINANCIAL SVCS GRP	HIG	16,401.39	0.10%	1.64%	13.50%	15.25%	0.01%
HARLEY-DAVIDSON INC	HOG	15,371.29	0.09%	1.21%	16.00%	17.31%	0.02%
HONEYWELL INTERNATIONAL INC	HON	71,483.63	0.42%	1.98%	11.00%	13.09%	0.05%
STARWOOD HOTELS & RESORTS HELMERICH & PAYNE	HOT HP	15,271.62 8,850.67	0.09%	1.70% 3.01%	14.00% 12.50%	15.82% 15.70%	0.01% 0.01%
HEWLETT-PACKARD CO	HPQ	54,609.99	0.05% 0.32%	2.16%	58.50%	61.29%	0.20%
H&R BLOCK INC	HRB	7.930.89	0.05%	3.11%	9.00%	12.25%	0.01%
HORMEL FOODS CORP	HRL	11,837.54	0.07%	1.79%	10.00%	11.88%	0.01%
HARRIS CORP	HRS	7,438.11	0.04%	2.50%	1.00%	3.51%	0.00%
HOSPIRA INC	HSP	6,840.06	0.04%	0.00%	4.50%	4.50%	0.00%
HOST HOTELS & RESORTS INC	HST	-	0.00%	2.68%	0.00%	2.68%	0.00%
HERSHEY CO/THE	HSY	21,566.63	0.13%	2.01%	12.00%	14.13%	0.02%
	HUM	16,141.67	0.09%	1.04%	9.00%	10.09%	0.01%
INTL BUSINESS MACHINES CORP INTERCONTINENTALEXCHANGE GRO	IBM ICE	201,263.00 16,388.92	1.18% 0.10%	2.13% 0.00%	7.50% 9.00%	9.71% 9.00%	0.11% 0.01%
INTERCONTINENTALEXCHANGE GRO	IFF	7,026.88	0.04%	1.85%	9.00%	10.93%	0.00%
INTL GAME TECHNOLOGY	IGT	4,527.05	0.03%	2.49%	13.50%	16.16%	0.00%
INTEL CORP	INTC	127,806.10	0.75%	3.50%	7.50%	11.13%	0.08%
INTUIT INC	INTU	21,736.62	0.13%	1.00%	11.00%	12.06%	0.02%
INTERNATIONAL PAPER CO	IP	21,956.12	0.13%	2.84%	12.00%	15.01%	0.02%
INTERPUBLIC GROUP OF COS INC	IPG	7,213.46	0.04%	1.79%	13.50%	15.41%	0.01%
INGERSOLL-RAND PLC	IR	17,656.89	0.10%	1.37%	12.50%	13.96%	0.01%
IRON MOUNTAIN INC	IRM	5,849.18	0.03%	3.53%	3.50%	7.09%	0.00%
INTUITIVE SURGICAL INC	ISRG	14,279.12	0.08%	0.00%	10.50%	10.50%	0.01%
ILLINOIS TOOL WORKS	ITW	37,153.60	0.22%	2.01%	10.50%	12.62%	0.03%
INVESCO LTD	IVZ	16,198.96	0.09%	2.46%	17.00%	19.67%	0.02%
JABIL CIRCUIT INC JOHNSON CONTROLS INC	JBL JCI	3,403.00	0.02% 0.20%	1.91% 1.72%	-1.00% 10.50%	0.90% 12.31%	0.00% 0.03%
JACOBS ENGINEERING GROUP INC	JEC	34,933.16 8,139.24	0.05%	0.00%	13.00%	13.00%	0.03%
JOHNSON & JOHNSON	JNJ	261,023.80	1.53%	2.85%	7.00%	9.95%	0.15%
JUNIPER NETWORKS INC	JNPR	11,055.79	0.06%	0.00%	12.50%	12.50%	0.01%
JOY GLOBAL INC	JOY	6,030.16	0.04%	1.23%	3.50%	4.75%	0.00%
JPMORGAN CHASE & CO	JPM	218,757.00	1.28%	2.72%	8.00%	10.83%	0.14%
NORDSTROM INC	JWN	11,903.05	0.07%	2.05%	10.00%	12.15%	0.01%
KELLOGG CO	к	21,980.64	0.13%	3.03%	7.50%	10.64%	0.01%
KEYCORP	KEY	12,066.71	0.07%	1.79%	8.50%	10.37%	0.01%
KIMCO REALTY CORP	KIM	-	0.00%	4.44%	0.00%	4.44%	0.00%
KLA-TENCOR CORPORATION	KLAC	10,685.53	0.06%	2.81%	7.50%	10.42%	0.01%
KIMBERLY-CLARK CORP KINDER MORGAN INC	KMB KMI	40,116.68	0.24% 0.22%	3.09%	9.50%	12.74%	0.03%
CARMAX INC	KMX	36,990.06 10,601.43	0.22%	4.59% 0.00%	0.00% 9.50%	4.59% 9.50%	0.01% 0.01%
COCA-COLA CO/THE	KO	178,803.80	1.05%	2.99%	8.00%	9.50 % 11.11%	0.12%
MICHAEL KORS HOLDINGS LTD	KORS	16,445.52	0.10%	0.00%	29.00%	29.00%	0.03%
KROGER CO	KR	20,482.90	0.12%	1.71%	10.50%	12.30%	0.01%
KRAFT FOODS GROUP INC	KRFT	31,956.61	0.19%	3.92%	0.00%	3.92%	0.01%
KOHLS CORP	KSS	11,917.66	0.07%	2.68%	8.00%	10.79%	0.01%
KANSAS CITY SOUTHERN	KSU	13,629.42	0.08%	0.70%	16.50%	17.26%	0.01%
LOEWS CORP	L	18,595.15	0.11%	0.52%	13.00%	13.55%	0.01%
	LB	17,945.20	0.11%	1.94%	9.50%	11.53%	0.01%
LEGGETT & PLATT INC LENNAR CORP-A	LEG LEN	4,377.54 7,633.01	0.03% 0.04%	3.87% 0.41%	14.50% 38.50%	18.65% 38.99%	0.00% 0.02%
LABORATORY CRP OF AMER HLDGS	LH	7,963.46	0.05%	0.00%	7.00%	7.00%	0.00%
LIFE TECHNOLOGIES CORP	LIFE	13,086.40	0.08%	0.00%	8.50%	8.50%	0.01%
L-3 COMMUNICATIONS HOLDINGS	LLL	9,539.61	0.06%	2.05%	3.50%	5.59%	0.00%
LINEAR TECHNOLOGY CORP	LLTC	10,599.53	0.06%	2.34%	7.00%	9.42%	0.01%
ELI LILLY & CO	LLY	55,079.39	0.32%	3.84%	-4.50%	-0.75%	0.00%
LEGG MASON INC	LM	5,303.42	0.03%	1.19%	14.00%	15.27%	0.00%
LOCKHEED MARTIN CORP	LMT	47,822.29	0.28%	3.66%	5.00%	8.75%	0.02%
LINCOLN NATIONAL CORP	LNC	13,628.67	0.08%	1.23%	7.50%	8.78%	0.01%
	LO	18,604.98	0.11%	4.36%	12.00%	16.62%	0.02%
LOWE'S COS INC	LOW LRCX	51,481.50	0.30%	1.47%	15.50%	17.08%	0.05% 0.01%
LAM RESEARCH CORP LSI CORP	LRCX	8,811.63 5,968.98	0.05% 0.04%	0.00% 1.09%	15.50% 31.00%	15.50% 32.26%	0.01%
LEUCADIA NATIONAL CORP	LUK	5,908.98 N/A	0.04% N/A	N/A	N/A	52.20% N/A	N/A
SOUTHWEST AIRLINES CO	LUV	13,188.91	0.08%	0.85%	15.50%	16.42%	0.01%
LYONDELLBASELL INDU-CL A	LYB	44,189.91	0.26%	2.52%	11.50%	14.16%	0.04%
MACY'S INC	M	19,466.85	0.11%	1.99%	12.50%	14.61%	0.02%
MASTERCARD INC-CLASS A	MA	98,934.57	0.58%	0.54%	15.00%	15.58%	0.09%
MACERICH CO/THE	MAC	-	0.00%	4.17%	0.00%	4.17%	0.00%
MARRIOTT INTERNATIONAL -CL A	MAR	14,692.57	0.09%	1.39%	14.00%	15.49%	0.01%
MASCO CORP	MAS	7,896.44	0.05%	1.33%	53.00%	54.68%	0.03%
	MAT	15,766.10	0.09%	3.11%	9.50%	12.76%	0.01%
		96,358.70	0.57%	3.35%	8.00%	11.48%	0.06%
MICROCHIP TECHNOLOGY INC	MCHP	8,797.35	0.05%	3.20%	9.00%	12.34%	0.01%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
MCKESSON CORP	MCK	37,068.30	0.22%	0.60%	14.00%	14.64%	0.03%
MOODY'S CORP	MCO	16,708.97	0.10%	1.44%	12.50%	14.03%	0.01%
MONDELEZ INTERNATIONAL INC-A	MDLZ	61,224.71	0.36%	1.60%	4.50%	6.14%	0.02%
MEDTRONIC INC	MDT	57,375.18	0.34%	2.02%	6.00%	8.08%	0.03%
METLIFE INC	MET	60,548.04	0.36%	2.07%	8.00%	10.15%	0.04%
MCGRAW HILL FINANCIAL INC MOHAWK INDUSTRIES INC	MHFI	20,903.05	0.12%	1.45%	0.00%	1.45%	0.00%
MEAD JOHNSON NUTRITION CO	MHK MJN	10,627.07 16,836.70	0.06% 0.10%	0.00% 1.63%	21.50% 11.00%	21.50% 12.72%	0.01% 0.01%
MCCORMICK & CO-NON VTG SHRS	MKC	9,104.85	0.05%	2.15%	9.00%	11.25%	0.01%
MARSH & MCLENNAN COS	MMC	26,436.51	0.16%	2.07%	13.00%	15.20%	0.02%
3M CO	MMM	93,106.38	0.55%	2.47%	7.50%	10.06%	0.05%
MONSTER BEVERAGE CORP	MNST	11,309.87	0.07%	0.00%	13.50%	13.50%	0.01%
ALTRIA GROUP INC	MO	76,423.50	0.45%	5.02%	11.00%	16.30%	0.07%
MONSANTO CO	MON	61,002.33	0.36%	1.49%	12.00%	13.58%	0.05%
MOSAIC CO/THE	MOS	19,994.85	0.12%	2.45%	11.00%	13.58%	0.02%
	MPC	27,130.62	0.16%	1.90%	0.00%	1.90%	0.00%
MERCK & CO. INC.	MRK MRO	145,511.20	0.85%	3.54%	2.00%	5.58%	0.05%
MARATHON OIL CORP MORGAN STANLEY	MS	24,554.88 60.749.18	0.14% 0.36%	2.15% 0.64%	0.00% 23.50%	2.15% 24.22%	0.00% 0.09%
MICROSOFT CORP	MSFT	312,474.30	1.83%	2.99%	8.50%	11.62%	0.21%
MOTOROLA SOLUTIONS INC	MSI	17,380.27	0.10%	1.85%	12.00%	13.96%	0.01%
M & T BANK CORP	MTB	15.097.54	0.09%	2.42%	7.00%	9.50%	0.01%
MICRON TECHNOLOGY INC	MU	22,867.33	0.13%	0.00%	94.00%	94.00%	0.13%
MURPHY OIL CORP	MUR	11,989.29	0.07%	1.95%	12.50%	14.57%	0.01%
MEADWESTVACO CORP	MWV	6,522.95	0.04%	2.73%	10.00%	12.87%	0.00%
MYLAN INC	MYL	16,388.37	0.10%	0.00%	12.00%	12.00%	0.01%
NOBLE ENERGY INC	NBL	24,429.95	0.14%	0.82%	17.00%	17.89%	0.03%
NABORS INDUSTRIES LTD	NBR	4,837.02	0.03%	0.98%	16.50%	17.56%	0.00%
NASDAQ OMX GROUP/THE	NDAQ	6,692.85	0.04%	1.30%	7.50%	8.85%	0.00%
NOBLE CORP PLC	NE	9,258.80	0.05%	2.74%	19.50%	22.51%	0.01%
NEXTERA ENERGY INC NEWMONT MINING CORP	NEE NEM	36,431.30 11,615.31	0.21% 0.07%	3.33% 3.43%	5.50% -16.50%	8.92% -13.35%	0.02% -0.01%
NETFLIX INC	NFLX	22,335.74	0.13%	0.00%	19.00%	19.00%	0.02%
NEWFIELD EXPLORATION CO	NFX	3,203.91	0.02%	0.00%	-1.50%	-1.50%	0.00%
NISOURCE INC	NI	10,167.49	0.06%	3.08%	10.50%	13.74%	0.01%
NIKE INC -CL B	NKE	69,510.91	0.41%	1.23%	13.50%	14.81%	0.06%
NIELSEN HOLDINGS NV	NLSN	17,347.03	0.10%	1.74%	0.00%	1.74%	0.00%
NORTHROP GRUMMAN CORP	NOC	25,805.73	0.15%	2.12%	4.50%	6.67%	0.01%
NATIONAL OILWELL VARCO INC	NOV	33,691.43	0.20%	1.32%	11.50%	12.90%	0.03%
NRG ENERGY INC	NRG	9,208.35	0.05%	1.69%	5.00%	6.73%	0.00%
NORFOLK SOUTHERN CORP	NSC	28,688.47	0.17%	2.24%	9.50%	11.85%	0.02%
NETAPP INC	NTAP	13,777.96	0.08%	1.49%	11.00%	12.57%	0.01%
NORTHERN TRUST CORP	NTRS	14,747.64 13.300.62	0.09%	2.01%	8.00%	10.09%	0.01%
NORTHEAST UTILITIES NUCOR CORP	NU NUE	17,072.02	0.08% 0.10%	3.65% 2.80%	8.00% 26.00%	11.80% 29.16%	0.01% 0.03%
NVIDIA CORP	NVDA	8,908.94	0.05%	2.17%	7.00%	9.25%	0.00%
NEWELL RUBBERMAID INC	NWL	9,262.20	0.05%	1.86%	13.50%	15.49%	0.01%
NEWS CORP - CLASS A	NWSA	N/A	N/A	N/A	N/A	N/A	N/A
OWENS-ILLINOIS INC	OI	5,840.67	0.03%	0.00%	8.50%	8.50%	0.00%
ONEOK INC	OKE	12,397.01	0.07%	2.83%	12.00%	15.00%	0.01%
OMNICOM GROUP	OMC	18,720.37	0.11%	2.20%	11.50%	13.83%	0.02%
ORACLE CORP	ORCL	169,831.20	1.00%	1.27%	9.00%	10.33%	0.10%
O'REILLY AUTOMOTIVE INC	ORLY	13,957.95	0.08%	0.00%	13.50%	13.50%	0.01%
OCCIDENTAL PETROLEUM CORP	OXY	75,793.73	0.44%	2.98%	7.00%	10.08%	0.04%
PAYCHEX INC PEOPLE'S UNITED FINANCIAL	PAYX PBCT	16,622.63 4,600.41	0.10% 0.03%	3.18% 4.35%	7.50% 17.50%	10.80% 22.23%	0.01% 0.01%
PITNEY BOWES INC	PBCI	4,798.57	0.03%	4.35% 3.16%	-0.50%	22.23%	0.00%
PACCAR INC	PCAR	20,792.75	0.12%	1.36%	-0.50% 13.50%	14.95%	0.02%
P G & E CORP	PCAR	18,194.81	0.12%	4.49%	2.50%	7.05%	0.02%
PLUM CREEK TIMBER CO	PCL	7,537.12	0.04%	3.81%	11.50%	15.53%	0.01%
PRICELINE.COM INC	PCLN	60,753.75	0.36%	0.00%	24.00%	24.00%	0.09%
PRECISION CASTPARTS CORP	PCP	39,330.97	0.23%	0.04%	13.50%	13.54%	0.03%
PATTERSON COS INC	PDCO	4,132.71	0.02%	1.71%	11.00%	12.80%	0.00%
PUBLIC SERVICE ENTERPRISE GP	PEG	16,106.61	0.09%	4.59%	-0.50%	4.08%	0.00%
PEPSICO INC	PEP	126,725.60	0.74%	2.78%	8.50%	11.40%	0.08%
PETSMART INC	PETM	7,600.08	0.04%	1.08%	14.00%	15.16%	0.01%
PFIZER INC	PFE	197,996.70	1.16%	3.40%	12.00%	15.60%	0.18%
PRINCIPAL FINANCIAL GROUP	PFG	14,565.68	0.09%	2.10%	9.50%	11.70%	0.01%
PROCTER & GAMBLE CO/THE PROGRESSIVE CORP	PG	222,242.50	1.30%	2.95%	9.00%	12.08%	0.16%
PARKER HANNIFIN CORP	PGR PH	16,241.89 19,084.17	0.10% 0.11%	1.03% 1.41%	15.50% 8.50%	16.61% 9.97%	0.02% 0.01%
PULTEGROUP INC	PH	7,653.50	0.04%	1.41%	0.00%	9.97% 1.00%	0.00%
PERKINELMER INC			0.03%	0.68%	10.00%	10.71%	0.00%
	PKI						
	PKI PLD	4,616.65 -					
PROLOGIS INC PALL CORP	PLD PLL	4,010.05 - 9,471.44	0.00%	3.26% 1.29%	0.00%	3.26% 11.86%	0.00% 0.01%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
		•	*				
PNC FINANCIAL SERVICES GROUP PENTAIR LTD-REGISTERED	PNC PNR	41,102.32 15,426.38	0.24% 0.09%	2.28% 1.29%	7.00% 17.50%	9.36% 18.90%	0.02% 0.02%
PINNACLE WEST CAPITAL	PNW	5,832.33	0.03%	4.28%	5.00%	9.39%	0.02%
PEPCO HOLDINGS INC	POM	4,732.06	0.03%	5.70%	6.00%	11.87%	0.00%
PPG INDUSTRIES INC	PPG	26,711.50	0.16%	1.30%	11.00%	12.37%	0.02%
PPL CORPORATION	PPL	18,749.61	0.11%	5.01%	0.00%	5.01%	0.01%
PERRIGO CO PLC	PRGO	14,349.63	0.08%	0.24%	12.50%	12.76%	0.01%
PRUDENTIAL FINANCIAL INC	PRU	42,878.27	0.25%	2.29%	10.50%	12.91%	0.03%
PUBLIC STORAGE PHILLIPS 66	PSA PSX	- 45,037.14	0.00% 0.26%	3.71% 2.08%	0.00% 0.00%	3.71% 2.08%	0.00% 0.01%
PVH CORP	PVH	11,012.20	0.26%	0.11%	13.50%	13.62%	0.01%
QUANTA SERVICES INC	PWR	6,687.61	0.04%	0.00%	20.50%	20.50%	0.01%
PRAXAIR INC	PX	38,140.62	0.22%	2.07%	11.00%	13.18%	0.03%
PIONEER NATURAL RESOURCES CO	PXD	25,836.44	0.15%	0.04%	23.00%	23.04%	0.03%
QUALCOMM INC	QCOM	126,532.60	0.74%	1.91%	11.50%	13.52%	0.10%
QEP RESOURCES INC RYDER SYSTEM INC	QEP R	5,462.69	0.03%	0.39%	12.00%	12.41% 16.49%	0.00%
REYNOLDS AMERICAN INC	RAI	3,855.07 26,770.02	0.02% 0.16%	1.86% 5.09%	14.50% 9.50%	14.83%	0.00% 0.02%
ROWAN COMPANIES PLC-A	RDC	4,245.18	0.02%	0.00%	23.00%	23.00%	0.01%
REGENERON PHARMACEUTICALS	REGN	27,369.69	0.16%	0.00%	0.00%	0.00%	0.00%
REGIONS FINANCIAL CORP	RF	13,614.64	0.08%	1.22%	71.00%	72.65%	0.06%
ROBERT HALF INTL INC	RHI	5,714.11	0.03%	1.57%	19.50%	21.22%	0.01%
RED HAT INC	RHT	10,587.25	0.06%	0.00%	13.00%	13.00%	0.01%
TRANSOCEAN LTD	RIG	17,368.13	0.10%	4.65%	13.50%	18.46%	0.02%
RALPH LAUREN CORP ROCKWELL AUTOMATION INC	RL ROK	15,907.69 16,363.81	0.09% 0.10%	1.02% 1.97%	9.50% 6.50%	10.57% 8.53%	0.01% 0.01%
ROPER INDUSTRIES INC	ROP	13.714.57	0.08%	0.58%	14.00%	14.62%	0.01%
ROSS STORES INC	ROST	16,011.17	0.09%	1.03%	12.00%	13.09%	0.01%
RANGE RESOURCES CORP	RRC	13,360.93	0.08%	0.19%	36.00%	36.22%	0.03%
REPUBLIC SERVICES INC	RSG	12,121.20	0.07%	3.15%	10.00%	13.31%	0.01%
RAYTHEON COMPANY	RTN	29,078.17	0.17%	2.42%	4.50%	6.97%	0.01%
STARBUCKS CORP	SBUX	59,246.77	0.35%	1.32%	19.50%	20.95%	0.07%
SCANA CORP SCHWAB (CHARLES) CORP	SCG SCHW	6,596.41 33,145.89	0.04% 0.19%	4.42% 0.93%	4.50% 11.50%	9.02% 12.48%	0.00% 0.02%
SPECTRA ENERGY CORP	SE	23,337.46	0.14%	3.91%	4.50%	8.50%	0.02 %
SEALED AIR CORP	SEE	6,661.19	0.04%	1.53%	15.00%	16.64%	0.01%
SHERWIN-WILLIAMS CO/THE	SHW	18,366.10	0.11%	1.26%	16.50%	17.86%	0.02%
SIGMA-ALDRICH	SIAL	11,029.52	0.06%	0.93%	8.50%	9.47%	0.01%
JM SMUCKER CO/THE	SJM	10,828.16	0.06%	2.28%	8.50%	10.88%	0.01%
SCHLUMBERGER LTD	SLB	117,722.50	0.69%	1.49%	15.00%	16.60%	0.11%
SLM CORP SNAP-ON INC	SLM SNA	11,800.65 6,331.05	0.07% 0.04%	2.61% 1.62%	8.50% 9.50%	11.22% 11.20%	0.01% 0.00%
SANDISK CORP	SNDK	15,923.06	0.09%	1.28%	9.50%	10.84%	0.00%
SCRIPPS NETWORKS INTER-CL A	SNI	12,402.48	0.07%	0.71%	9.00%	9.74%	0.01%
SOUTHERN CO/THE	SO	35,930.91	0.21%	5.10%	3.00%	8.18%	0.02%
SIMON PROPERTY GROUP INC	SPG	-	0.00%	3.24%	0.00%	3.24%	0.00%
STAPLES INC	SPLS	10,392.71	0.06%	3.02%	3.00%	6.07%	0.00%
STERICYCLE INC SEMPRA ENERGY	SRCL SRE	9,881.14 21,838.32	0.06% 0.13%	0.00% 2.92%	12.00% 4.50%	12.00% 7.49%	0.01% 0.01%
SUNTRUST BANKS INC	STI	19,596.86	0.11%	1.09%	26.00%	27.23%	0.03%
ST JUDE MEDICAL INC	STJ	18,129.85	0.11%	1.59%	9.50%	11.17%	0.01%
STATE STREET CORP	STT	32,095.60	0.19%	1.54%	10.50%	12.12%	0.02%
SEAGATE TECHNOLOGY	STX	20,098.01	0.12%	3.07%	7.00%	10.18%	0.01%
CONSTELLATION BRANDS INC-A	STZ	13,272.38	0.08%	0.00%	16.00%	16.00%	0.01%
STANLEY BLACK & DECKER INC SOUTHWESTERN ENERGY CO	SWK SWN	12,578.79	0.07%	2.47%	11.50% 11.50%	14.11% 11.50%	0.01% 0.01%
SAFEWAY INC	SWN	13,915.50 7,825.99	0.08% 0.05%	0.00% 2.69%	11.50% 6.50%	11.50% 9.28%	0.01%
STRYKER CORP	SYK	28,528.93	0.17%	1.62%	7.00%	8.68%	0.00%
SYMANTEC CORP	SYMC	15,973.91	0.09%	2.61%	15.00%	17.81%	0.02%
SYSCO CORP	SYY	21,231.71	0.12%	3.18%	10.50%	13.85%	0.02%
AT&T INC	Т	185,653.40	1.09%	5.23%	7.00%	12.41%	0.14%
MOLSON COORS BREWING CO -B	TAP	10,180.68	0.06%	2.31%	7.50%	9.90%	0.01%
TERADATA CORP TECO ENERGY INC	TDC TE	7,302.35 3,707.14	0.04% 0.02%	0.00% 5.16%	13.00% 3.00%	13.00% 8.24%	0.01% 0.00%
INTEGRYS ENERGY GROUP INC	TEG	4,315.70	0.02%	5.00%	3.00% 4.50%	8.24% 9.61%	0.00%
TE CONNECTIVITY LTD	TEL	22,594.48	0.13%	1.83%	8.00%	9.90%	0.01%
TARGET CORP	TGT	39,472.30	0.23%	2.82%	9.50%	12.45%	0.03%
TENET HEALTHCARE CORP	THC	4,049.94	0.02%	0.00%	29.00%	29.00%	0.01%
TIFFANY & CO	TIF	11,648.53	0.07%	1.54%	11.50%	13.13%	0.01%
TJX COMPANIES INC	TJX	45,267.75	0.27%	0.91%	13.50%	14.47%	0.04%
	TMK	7,126.91	0.04%	0.87%	7.50%	8.40%	0.00%
THERMO FISHER SCIENTIFIC INC TRIPADVISOR INC	TMO TRIP	39,847.94 11,860.17	0.23% 0.07%	0.54% 0.00%	10.50% 0.00%	11.07% 0.00%	0.03% 0.00%
T ROWE PRICE GROUP INC	TROW	21,806.29	0.13%	1.93%	12.50%	14.55%	0.02%
TRAVELERS COS INC/THE	TRV	32,772.64	0.19%	2.22%	9.50%	11.83%	0.02%
TYSON FOODS INC-CL A	TSN	11,728.63	0.07%	0.90%	9.50%	10.44%	0.01%

		[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker	Market Capitalization	Weight in Index	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	Weighted DCF Result
Company	Tiokor	oupitalization	Weight in Index	Dividend Hold	Clowar Edd.	Der Hobalt	Der Robul
ESORO CORP	TSO	7,871.41	0.05%	1.71%	18.00%	19.86%	0.01%
OTAL SYSTEM SERVICES INC	TSS	6,335.86	0.04%	1.20%	8.00%	9.25%	0.00%
ME WARNER CABLE	TWC	37,719.05	0.22%	2.03%	11.50%	13.65%	0.03%
ME WARNER INC	TWX	63,630.00	0.37%	1.64%	12.00%	13.74%	0.05%
EXAS INSTRUMENTS INC	TXN	47,712.00	0.28%	2.75%	4.00%	6.81%	0.02%
EXTRON INC	TXT	10,174.77	0.06%	0.33%	16.00%	16.36%	0.01%
CO INTERNATIONAL LTD	TYC	18,766.44	0.11%	1.77%	0.00%	1.77%	0.00%
NITEDHEALTH GROUP INC	UNH	74,700.30	0.44%	1.50%	10.00%	11.58%	0.05%
NUM GROUP	UNM	9,181.65	0.05%	1.65%	6.50%	8.20%	0.00%
NION PACIFIC CORP	UNP	76,684.84	0.45%	1.90%	12.00%	14.01%	0.06%
NITED PARCEL SERVICE-CL B	UPS	97,343.10	0.57%	2.37%	7.50%	9.96%	0.06%
RBAN OUTFITTERS INC	URBN	5,530.25	0.03%	0.00%	14.50%	14.50%	0.00%
S BANCORP	USB	74,232.63	0.44%	2.32%	8.00%	10.41%	0.05%
NITED TECHNOLOGIES CORP	UTX	103,402.20	0.61%	2.09%	10.50%	12.70%	0.03%
	V	,					
SA INC-CLASS A SHARES		173,297.40	1.02%	0.73%	18.50%	19.30%	0.20%
RIAN MEDICAL SYSTEMS INC	VAR	8,269.50	0.05%	0.00%	7.00%	7.00%	0.00%
CORP	VFC	27,266.78	0.16%	1.69%	13.00%	14.80%	0.02%
ACOM INC-CLASS B	VIAB	41,048.69	0.24%	1.40%	13.50%	14.99%	0.04%
LERO ENERGY CORP	VLO	26,409.64	0.15%	1.85%	17.00%	19.01%	0.03%
JLCAN MATERIALS CO	VMC	7,574.46	0.04%	0.07%	0.00%	0.07%	0.00%
DRNADO REALTY TRUST	VNO	16,686.55	0.10%	3.27%	7.00%	10.38%	0.01%
RISIGN INC	VRSN	8,215.19	0.05%	0.00%	20.50%	20.50%	0.01%
RTEX PHARMACEUTICALS INC	VRTX	17,241.43	0.10%	0.00%	0.00%	0.00%	0.00%
NTAS INC	VTR	-	0.00%	5.07%	0.00%	5.07%	0.00%
ERIZON COMMUNICATIONS INC	VZ	140,740.90	0.83%	4.31%	9.50%	14.01%	0.12%
ALGREEN CO	WAG	54,498.32	0.32%	2.19%	9.50%	11.79%	0.04%
ATERS CORP	WAT	8,459.13	0.05%	0.00%	7.50%	7.50%	0.00%
ESTERN DIGITAL CORP	WDC	19,606.88	0.11%	1.44%	8.00%	9.50%	0.01%
ISCONSIN ENERGY CORP	WEC	9,337.11	0.05%	3.79%	7.00%	10.92%	0.01%
ELLS FARGO & CO	WFC	240,165.90	1.41%	2.64%	8.00%	10.75%	0.15%
HOLE FOODS MARKET INC	WFM	21,474.26	0.13%	0.83%	19.00%	19.91%	0.03%
HIRLPOOL CORP	WHR	12,466.20	0.07%	1.58%	9.00%	10.65%	0.01%
	WIN		0.03%	11.88%	8.50%	20.88%	
INDSTREAM HOLDINGS INC		5,019.16					0.01%
ELLPOINT INC	WLP	27,293.72	0.16%	1.63%	7.50%	9.19%	0.01%
ASTE MANAGEMENT INC	WM	21,104.62	0.12%	3.36%	6.50%	9.97%	0.01%
ILLIAMS COS INC	WMB	26,111.09	0.15%	4.58%	7.00%	11.74%	0.02%
AL-MART STORES INC	WMT	254,140.40	1.49%	2.55%	7.50%	10.15%	0.15%
PX ENERGY INC	WPX	4,074.21	0.02%	0.00%	0.00%	0.00%	0.00%
ESTERN UNION CO	WU	9,513.03	0.06%	2.90%	5.00%	7.97%	0.00%
EYERHAEUSER CO	WY	18,252.14	0.11%	2.81%	22.00%	25.12%	0.03%
YNDHAM WORLDWIDE CORP	WYN	9,516.00	0.06%	1.59%	13.50%	15.20%	0.01%
YNN RESORTS LTD	WYNN	19,234.86	0.11%	2.09%	14.00%	16.24%	0.02%
ITED STATES STEEL CORP	Х	4,257.29	0.02%	0.68%	0.00%	0.68%	0.00%
EL ENERGY INC	XEL	13,848.91	0.08%	4.10%	4.50%	8.69%	0.01%
GROUP PLC	XL	9,468.22	0.06%	1.77%	17.00%	18.92%	0.01%
INX INC	XLNX	12,122.64	0.07%	2.21%	8.00%	10.30%	0.01%
XON MOBIL CORP	XOM	440,782.90	2.58%	2.56%	6.50%	9.14%	0.24%
INTSPLY INTERNATIONAL INC	XRAY	6,903.81	0.04%	0.52%	9.00%	9.54%	0.00%
ROX CORP	XRX	15,056.52	0.09%	2.04%	6.00%	8.10%	0.01%
LEM INC	XYL	6,400.31	0.04%	1.36%	0.00%	1.36%	0.00%
AHOO! INC	YHOO	41,180.85	0.24%	0.00%	10.00%	10.00%	0.00%
JM! BRANDS INC	YUM						
		32,978.95	0.19%	2.00%	9.50%	11.60%	0.02%
	ZION	5,508.46	0.03%	0.54%	0.00%	0.54%	0.00%
MMER HOLDINGS INC	ZMH	15,929.81	0.09%	0.92%	10.00%	10.97%	0.01%
DETIS INC	ZTS	16,295.19	0.10%	0.89%	0.00%	0.89%	0.00%

Total Market Capitalization: 17, Notes: [1] Equals sum of Col. [9] [2] Source: Bloomberg Professional [3] Equals [1] – [2] [4] Source: Value Line [5] Equals weight in S&P 500 based on market capitalization [6] Source: Value Line [7] Source: Value Line [8] Equals ([6] x (1 + (0.5 x [7]))) + [7] [9] Equals Col. [5] x Col. [8]

		[1]	[2]	[3]
Company	Ticker	Bloomberg	Value Line	Calculated
AGL Resources Inc.	GAS	0.853	0.75	0.806
Atmos Energy Corporation	ATO	0.825	0.80	0.976
Laclede Group, Inc. (The)	LG	0.662	0.65	0.717
New Jersey Resources Corporation	NJR	0.876	0.70	0.937
Northwest Natural Gas Company	NWN	0.742	0.65	0.764
Piedmont Natural Gas Company, Inc.	PNY	0.879	0.75	0.908
South Jersey Industries, Inc.	SJI	0.761	0.70	0.864
Southwest Gas Corporation	SWX	0.828	0.80	0.879
WGL Holdings, Inc.	WGL	0.756	0.65	0.806
Mean		0.798	0.717	0.851

Bloomberg, Value Line, and Calculated Beta Coefficients

Notes:

[1] Source: Bloomberg Professional Service

[2] Source: Value Line

[3] Source: Bloomberg Professional Service; Beta coefficients calculated over 18-months based on weekly returns

Capital Asset Pricing Model Results Bloomberg and Value Line Derived Market Risk Premium

	[1]	[2]	[3]	[4]	[5]	[6]
					÷	l Result
		Average	Bloomberg	Value Line	Bloomberg	Value Line
	Risk-Free	Beta	Market DCF	Market DCF	Market DCF	Market DCF
	Rate	Coefficient	Derived	Derived	Derived	Derived
PROXY GROUP 18-MONTH BETA COEFFICIEN	IT.					
Current 30-Year Treasury (30-day average) [7]	3.87%	0.851	10.14%	8.85%	12.50%	11.40%
Near-Term Projected 30-Year Treasury [8]	3.87 % 4.15%	0.851	10.14%	8.85%	12.50%	11.68%
Mean	4.13%	0.651	10.14%	0.03%		
Mean					12.64%	11.54%
					CAPN	Result
		Average	Bloomberg	Value Line	Bloomberg	Value Line
	Risk-Free	Beta	Market DCF	Market DCF	Market DCF	Market DCF
	Rate	Coefficient	Derived	Derived	Derived	Derived
PROXY GROUP BLOOMBERG BETA COEFFIC	IENT					
Current 30-Year Treasury (30-day average) [7]	3.87%	0.798	10.14%	8.85%	11.96%	10.93%
Near-Term Projected 30-Year Treasury [8]	4.15%	0.798	10.14%	8.85%	12.24%	11.21%
Mean					12.10%	11.07%
					0.00	
			D I I		-	I Result
		Average	Bloomberg	Value Line	Bloomberg	Value Line
	Risk-Free	Beta	Market DCF	Market DCF	Market DCF	Market DCF
	Rate	Coefficient	Derived	Derived	Derived	Derived
PROXY GROUP VALUE LINE AVERAGE BETA	COFFEICIE	ντ				
Current 30-Year Treasury (30-day average) [7]	3.87%	0.717	10.14%	8.85%	11.14%	10.21%
Near-Term Projected 30-Year Treasury [8]	4.15%	0.717	10.14%	8.85%	11.42%	10.49%
Mean		0.1 11	10.11/0	0.0070	11.28%	10.35%

Notes:

[1] See Notes [7] and [8]

[2] Source: Schedule RBH-6

[3] Source: Schedule RBH-5

[4] Source: Schedule RBH-5

[5] Equals Col. [1] + (Col. [2] x Col. [3])

[6] Equals Col. [1] + (Col. [2] x Col. [4]) [7] Source: Bloomberg Professional

[8] Source: Blue Chip Financial Forecasts, Vol. 33, No. 1, January 1, 2014, at 2

Bond Yield Plus Risk Premium

Constant Slope Treasury Yield Risk Premium Return on Equity Current -3.12% -2.90% 3.87% 6.32% 10.19% Near Term Projected -3.12% -2.90% 4.15% 6.12% 10.27%		[1]	[2]	[3] 30-Year	[4]	[5]
		Constant	Slope			
	.	0.400/	0.000/	0.070/	0.000/	40.400/
Near Term Projected -3.12% -2.90% 4.15% 6.12% 10.27%	Current	-3.12%	-2.90%	3.87%	6.32%	10.19%
	Near Term Projected	-3.12%	-2.90%	4.15%	6.12%	10.27%
Long-Term Projected -3.12% -2.90% 5.25% 5.44% 10.69%	Long-Term Projected	-3.12%	-2.90%	5.25%	5.44%	10.69%

 Notes:

 [1] Constant of regression equation

 [2] Slope of regression equation

 [3] Source: Current = Bloomberg Professional

 [3] Near Term Projected = Blue Chip Financial Forecasts, Vol. 33, No. 1, January 1, 2014, at 2,

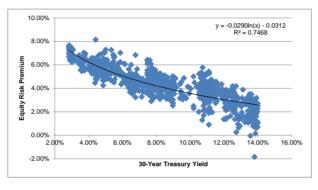
 [4] Long Term Projected = Blue Chip Financial Forecasts, Vol. 32, No. 12, December 1, 2013, at 14

 [5] Equals [3] + [4]

 [6] Source: SNL Financial

 [7] Source: Bloomberg Professional, equals 187-trading day average (i.e. lag period) as of December 31, 2013

 [9] Equals [7] - [8]



[6] Date of	[7]	[8]	[9]
Natural		30-Year	
Gas Rate	Return on	Treasury	Risk
Case	Equity	Yield	Premium
1/3/1980	12.55%	9.39%	3.16%
1/4/1980	13.75%	9.40%	4.35%
1/14/1980	13.20%	9.44%	3.76%
1/18/1980	14.00%	9.47%	4.53%
1/31/1980	12.61%	9.56%	3.05%
2/8/1980	14.50%	9.63%	4.87%
2/14/1980	13.00%	9.67%	3.33%
2/15/1980	13.00%	9.69%	3.31%
2/29/1980	14.00%	9.86%	4.14%
3/5/1980	14.00%	9.91%	4.09%
3/7/1980	13.50%	9.95%	3.55%
3/14/1980	14.00%	10.04%	3.96%
3/27/1980	12.69%	10.20%	2.49%
4/1/1980	14.75%	10.26%	4.49%
4/29/1980	12.50%	10.51%	1.99%
5/7/1980	14.27%	10.56%	3.71%
5/8/1980	13.75%	10.56%	3.19%
5/19/1980	15.50%	10.62%	4.88%
5/27/1980	14.60%	10.65%	3.95%
5/29/1980	16.00%	10.67%	5.33%
6/10/1980	13.78%	10.71%	3.07%
6/25/1980	14.25%	10.74%	3.51%
7/9/1980	14.51%	10.77%	3.74%
7/17/1980	12.90%	10.79%	2.11%
7/18/1980	13.80%	10.79%	3.01%
7/22/1980	14.10%	10.79%	3.31%
7/23/1980	14.19%	10.79%	3.40%
8/1/1980	12.50%	10.80%	1.70%
8/11/1980	14.85%	10.81%	4.04%
8/21/1980	13.03%	10.84%	2.19%
8/28/1980	13.61%	10.87%	2.74%
8/28/1980	14.00%	10.87%	3.13%
9/4/1980	14.00%	10.90%	3.10%
9/24/1980	15.00%	10.98%	4.02%
10/9/1980	14.50%	11.05%	3.45%
10/9/1980	14.50%	11.05%	3.45%
10/24/1980	14.00%	11.09%	2.91%
10/27/1980	15.20%	11.10%	4.10%
10/27/1980	15.20%	11.10%	4.10%
10/28/1980	12.00%	11.10%	0.90%
10/28/1980	13.00% 14.50%	11.10% 11.12%	1.90% 3.38%
11/4/1980	14.50% 15.00%	11.12%	3.38%
11/4/1980	15.00%	11.12%	3.00%

[6] Date of	[7]	[8]	[9]
Natural	5.	30-Year	D : 1
Gas Rate Case	Return on Equity	Treasury Yield	Risk Premium
11/6/1980	14.35%	11.13%	3.22%
11/10/1980 11/17/1980	13.25% 15.50%	11.14% 11.15%	2.11% 4.35%
11/19/1980	13.50%	11.14%	2.36%
12/5/1980 12/8/1980	14.60% 16.40%	11.13% 11.13%	3.47% 5.27%
12/12/1980	15.45%	11.15%	4.30%
12/17/1980	14.20%	11.16%	3.04%
12/17/1980 12/18/1980	14.40% 14.00%	11.16% 11.16%	3.24% 2.84%
12/22/1980	13.45%	11.16%	2.29%
12/26/1980 12/30/1980	14.00% 14.50%	11.15% 11.14%	2.85% 3.36%
12/31/1980	14.56%	11.14%	3.42%
1/7/1981	14.30%	11.13%	3.17%
1/12/1981 1/26/1981	14.95% 15.25%	11.14% 11.20%	3.81% 4.05%
1/30/1981	13.25%	11.23%	2.02%
2/11/1981 2/20/1981	14.50% 14.50%	11.33% 11.40%	3.17% 3.10%
3/12/1981	15.65%	11.60%	4.05%
3/25/1981 4/1/1981	15.30%	11.74%	3.56%
4/1/1981 4/9/1981	15.30% 15.00%	11.82% 11.91%	3.48% 3.09%
4/29/1981	13.50%	12.12%	1.38%
4/29/1981 4/30/1981	14.25% 13.60%	12.12% 12.14%	2.13% 1.46%
4/30/1981	15.00%	12.14%	2.86%
5/21/1981	14.00%	12.37% 12.46%	1.63%
6/3/1981 6/22/1981	14.67% 16.00%	12.46%	2.21% 3.43%
6/25/1981	14.75%	12.60%	2.15%
7/2/1981 7/10/1981	14.00% 16.00%	12.64% 12.69%	1.36% 3.31%
7/14/1981	16.90%	12.71%	4.19%
7/21/1981	15.78%	12.78%	3.00%
7/27/1981 7/27/1981	13.77% 15.50%	12.82% 12.82%	0.95% 2.68%
7/31/1981	13.50%	12.86%	0.64%
7/31/1981 8/12/1981	14.20% 13.72%	12.86% 12.93%	1.34% 0.79%
8/12/1981	13.72%	12.93%	0.79%
8/12/1981	14.41%	12.93%	1.48%
8/25/1981 8/27/1981	15.45% 14.43%	13.02% 13.04%	2.43% 1.39%
8/28/1981	15.00%	13.05%	1.95%
9/23/1981 9/24/1981	14.34% 16.25%	13.24% 13.26%	1.10% 2.99%
9/29/1981	14.50%	13.31%	1.19%
9/30/1981 10/2/1981	15.94% 14.80%	13.32% 13.36%	2.62% 1.44%
10/12/1981	16.25%	13.43%	2.82%
10/20/1981	15.25%	13.50%	1.75%
10/20/1981 10/20/1981	16.50% 17.00%	13.50% 13.50%	3.00% 3.50%
10/23/1981	15.50%	13.54%	1.96%
10/26/1981 10/29/1981	13.50% 16.50%	13.56% 13.60%	-0.06% 2.90%
11/4/1981	15.33%	13.62%	1.71%
11/6/1981 11/12/1981	15.17%	13.64%	1.53%
11/12/1981	15.00% 15.25%	13.65% 13.66%	1.35% 1.59%
11/25/1981	16.10%	13.66%	2.44%
11/25/1981 11/30/1981	16.10% 16.75%	13.66% 13.66%	2.44% 3.09%
12/1/1981	15.70%	13.66%	2.04%
12/1/1981 12/15/1981	16.00% 15.81%	13.66% 13.69%	2.34% 2.12%
12/17/1981	14.75%	13.70%	1.05%
12/22/1981	15.70%	13.72%	1.98%
12/22/1981 12/30/1981	16.00% 16.00%	13.72% 13.74%	2.28% 2.26%
12/30/1981	16.25%	13.74%	2.51%
1/4/1982 1/14/1982	15.50% 11.95%	13.75% 13.80%	1.75% -1.85%
1/25/1982	16.25%	13.84%	2.41%
1/27/1982	16.84%	13.85%	2.99%
1/31/1982 2/2/1982	14.00% 16.24%	13.86% 13.86%	0.14% 2.38%
2/8/1982	15.50%	13.87%	1.63%
2/9/1982 2/9/1982	14.95% 15.75%	13.88% 13.88%	1.07% 1.87%
2/11/1982	16.00%	13.89%	2.11%
3/1/1982 3/8/1982	15.96% 17.10%	13.91% 13.92%	2.05% 3.18%
3/8/1982	16.00%	13.92%	2.03%

[6] Date of	[7]	[8]	[9]
Natural		30-Year	
Gas Rate Case	Return on Equity	Treasury Yield	Risk Premium
3/31/1982	16.25%	13.98%	2.27%
4/1/1982 4/6/1982	16.50% 15.00%	13.98% 13.99%	2.52% 1.01%
4/9/1982	16.50%	13.99%	2.51%
4/12/1982	15.10%	13.99%	1.11%
4/12/1982 4/18/1982	16.70% 14.70%	13.99% 13.99%	2.71% 0.71%
4/27/1982	15.00%	13.97%	1.03%
5/10/1982	14.57%	13.94%	0.63%
5/14/1982 5/20/1982	15.80% 15.82%	13.92% 13.91%	1.88% 1.91%
5/21/1982	15.50%	13.90%	1.60%
5/25/1982	16.25% 14.50%	13.90% 13.87%	2.35%
6/2/1982 6/7/1982	14.50% 16.00%	13.87%	0.63% 2.15%
6/23/1982	15.50%	13.81%	1.69%
6/25/1982 7/1/1982	16.50% 15.55%	13.81% 13.79%	2.69% 1.76%
7/1/1982	16.00%	13.79%	2.21%
7/2/1982	15.10%	13.79%	1.31%
7/13/1982	16.80%	13.75%	3.05%
7/22/1982 7/28/1982	14.50% 16.10%	13.71% 13.68%	0.79% 2.42%
7/30/1982	14.82%	13.66%	1.16%
8/4/1982 8/6/1982	15.58%	13.64%	1.94%
8/11/1982	16.50% 17.11%	13.63% 13.62%	2.87% 3.49%
8/25/1982	16.00%	13.59%	2.41%
8/30/1982	16.25%	13.58%	2.67%
9/3/1982 9/9/1982	15.50% 16.04%	13.57% 13.55%	1.93% 2.49%
9/15/1982	16.04%	13.52%	2.52%
9/17/1982	15.25%	13.51%	1.74%
9/29/1982 9/30/1982	14.50% 14.74%	13.43% 13.42%	1.07% 1.32%
9/30/1982	15.50%	13.42%	2.08%
9/30/1982	16.50%	13.42%	3.08%
9/30/1982 10/1/1982	16.70% 16.50%	13.42% 13.41%	3.28% 3.09%
10/8/1982	15.00%	13.33%	1.67%
10/15/1982	15.90%	13.26%	2.64%
10/19/1982 10/27/1982	15.90% 17.00%	13.22% 13.12%	2.68% 3.88%
10/28/1982	14.75%	13.11%	1.64%
11/2/1982	16.25%	13.07%	3.18%
11/4/1982 11/5/1982	15.75% 14.73%	13.03% 13.01%	2.72% 1.72%
11/17/1982	16.00%	12.86%	3.14%
11/23/1982	15.50%	12.79%	2.71%
11/24/1982 11/24/1982	14.50% 16.02%	12.77% 12.77%	1.73% 3.25%
11/30/1982	12.98%	12.72%	0.26%
11/30/1982	15.50%	12.72%	2.78%
11/30/1982 11/30/1982	15.50% 15.65%	12.72% 12.72%	2.78% 2.93%
11/30/1982	16.00%	12.72%	3.28%
11/30/1982	16.10%	12.72%	3.38%
12/3/1982 12/8/1982	15.33% 15.75%	12.68% 12.63%	2.65% 3.12%
12/13/1982	16.00%	12.58%	3.42%
12/14/1982	16.40% 16.25%	12.57%	3.83%
12/17/1982 12/20/1982	16.25%	12.52% 12.51%	3.73% 2.49%
12/21/1982	15.70%	12.49%	3.21%
12/28/1982	15.25%	12.42% 12.42%	2.83% 2.83%
12/28/1982 12/29/1982	15.25% 16.25%	12.42%	2.83%
12/29/1982	16.25%	12.41%	3.84%
1/11/1983 1/12/1983	15.90% 15.50%	12.26% 12.24%	3.64% 3.26%
1/12/1983	15.00%	12.24%	2.82%
1/24/1983	15.50%	12.13%	3.37%
1/24/1983	16.00%	12.13%	3.87%
1/28/1983 1/31/1983	14.90% 15.00%	12.08% 12.07%	2.82% 2.93%
2/10/1983	15.00%	11.97%	3.03%
2/25/1983 3/2/1983	15.70% 15.25%	11.84% 11.79%	3.86% 3.46%
3/16/1983	16.00%	11.62%	4.38%
3/21/1983	14.96%	11.57%	3.39%
3/23/1983 3/23/1983	15.40% 16.10%	11.53% 11.53%	3.87% 4.57%
3/24/1983	15.00%	11.51%	3.49%
4/12/1983	13.25%	11.30%	1.95%
4/29/1983 5/3/1983	15.05% 15.40%	11.09% 11.06%	3.96% 4.34%
2, 0, 1000			

[6] Date of	[7]	[8]	[9]
Natural		30-Year	
Gas Rate Case	Return on Equity	Treasury Yield	Risk Premium
5/9/1983	15.50%	11.00%	4.50%
5/19/1983	14.85%	10.90%	3.95%
5/31/1983 6/2/1983	14.00% 14.50%	10.84% 10.82%	3.16% 3.68%
6/7/1983	14.50%	10.82%	3.08%
6/9/1983	14.85%	10.79%	4.06%
6/20/1983	14.15%	10.74%	3.41%
6/20/1983 6/27/1983	16.50% 14.50%	10.74% 10.71%	5.76% 3.79%
6/30/1983	14.80%	10.70%	4.10%
6/30/1983	15.90%	10.70%	5.20%
7/1/1983 7/5/1983	14.80% 15.00%	10.70% 10.69%	4.10% 4.31%
7/8/1983	15.50%	10.69%	4.81%
7/19/1983	15.00%	10.70%	4.30%
7/19/1983 8/18/1983	15.10% 15.30%	10.70% 10.81%	4.40% 4.49%
8/19/1983	15.79%	10.82%	4.97%
8/29/1983	16.00%	10.85%	5.15%
8/31/1983 8/31/1983	14.75% 15.25%	10.87% 10.87%	3.88% 4.38%
9/8/1983	14.75%	10.89%	3.86%
9/16/1983	15.51%	10.93%	4.58%
9/26/1983 9/28/1983	14.50% 14.25%	10.96% 10.97%	3.54% 3.28%
9/30/1983	14.25%	10.97%	5.17%
9/30/1983	16.25%	10.98%	5.27%
10/1/1983	16.25%	10.98%	5.27%
10/13/1983 10/19/1983	15.52% 15.20%	11.02% 11.04%	4.50% 4.16%
10/26/1983	14.75%	11.06%	3.69%
10/27/1983	14.88%	11.07%	3.81%
10/27/1983 11/9/1983	15.33% 14.82%	11.07% 11.10%	4.26% 3.72%
11/9/1983	16.51%	11.10%	5.41%
11/9/1983	16.51%	11.10%	5.41%
12/1/1983 12/8/1983	14.50% 15.90%	11.17% 11.20%	3.33% 4.70%
12/9/1983	15.30%	11.20%	4.09%
12/12/1983	14.50%	11.22%	3.28%
12/12/1983 12/20/1983	15.50% 15.40%	11.22% 11.26%	4.28% 4.14%
12/20/1983	16.00%	11.26%	4.14%
12/22/1983	15.75%	11.27%	4.48%
12/29/1983 12/30/1983	15.00% 15.00%	11.30% 11.30%	3.70% 3.70%
1/10/1983	15.00%	11.30%	3.70% 4.56%
1/13/1984	15.50%	11.36%	4.14%
1/18/1984 1/26/1984	15.53% 15.90%	11.38% 11.42%	4.15% 4.48%
2/14/1984	14.25%	11.51%	2.74%
2/28/1984	14.50%	11.58%	2.92%
3/20/1984	16.00% 15.50%	11.70% 11.72%	4.30% 3.78%
3/23/1984 4/9/1984	15.50%	11.72%	3.78%
4/18/1984	16.20%	11.86%	4.34%
4/27/1984	15.85%	11.90%	3.95%
5/15/1984 5/16/1984	13.35% 15.00%	11.99% 12.00%	1.36% 3.00%
5/22/1984	14.40%	12.04%	2.36%
6/13/1984	15.50%	12.18%	3.32%
7/10/1984 8/7/1984	16.00% 16.69%	12.37% 12.51%	3.63% 4.18%
8/9/1984	15.33%	12.51%	2.82%
8/17/1984	14.82%	12.54%	2.28%
8/21/1984 8/27/1984	14.64% 14.52%	12.54% 12.56%	2.10% 1.96%
8/28/1984	14.75%	12.57%	2.18%
8/30/1984	15.60%	12.58%	3.02%
9/12/1984 9/12/1984	15.60% 15.90%	12.60% 12.60%	3.00% 3.30%
9/25/1984	16.25%	12.61%	3.64%
10/2/1984	14.80%	12.62%	2.18%
10/9/1984 10/10/1984	14.75% 15.50%	12.63% 12.63%	2.12% 2.87%
10/18/1984	15.00%	12.65%	2.35%
10/24/1984	15.50%	12.65%	2.85%
11/7/1984 11/20/1984	15.00% 15.92%	12.64% 12.63%	2.36% 3.29%
11/20/1984	15.92%	12.63%	3.29% 2.90%
12/18/1984	15.00%	12.55%	2.45%
12/20/1984	15.00%	12.54%	2.46%
12/28/1984 12/28/1984	15.75% 16.25%	12.51% 12.51%	3.24% 3.74%
1/2/1985	16.00%	12.50%	3.50%
1/31/1985	14.75%	12.37%	2.38%

[6] Date of	[7]	[8]	[9]
Natural		30-Year	
Gas Rate	Return on	Treasury	Risk
Case 2/7/1985	Equity 14.85%	Yield 12.33%	Premium 2.52%
2/15/1985	15.00%	12.33%	2.73%
2/20/1985	14.50%	12.25%	2.25%
2/22/1985	14.86%	12.25%	2.61%
3/14/1985	15.50%	12.16%	3.34%
3/28/1985 4/9/1985	14.80% 15.50%	12.08% 12.02%	2.72% 3.48%
4/16/1985	15.70%	11.96%	3.74%
6/10/1985	15.75%	11.58%	4.17%
6/26/1985	14.82%	11.46%	3.36%
7/9/1985 7/26/1985	15.00% 14.50%	11.38% 11.26%	3.62% 3.24%
8/29/1985	14.50%	11.20%	3.39%
8/30/1985	14.38%	11.11%	3.27%
9/12/1985	15.25%	11.07%	4.18%
9/23/1985	15.30%	11.03%	4.27%
9/25/1985 9/26/1985	14.50% 13.80%	11.02% 11.02%	3.48% 2.78%
9/26/1985	14.50%	11.02%	3.48%
10/25/1985	15.25%	10.91%	4.34%
11/8/1985	12.94%	10.85%	2.09%
11/20/1985 11/25/1985	14.90% 13.30%	10.81% 10.79%	4.09% 2.51%
12/6/1985	12.00%	10.79%	1.29%
12/11/1985	14.90%	10.68%	4.22%
12/20/1985	14.88%	10.59%	4.29%
12/20/1985	15.00%	10.59%	4.41%
12/20/1985 12/30/1985	15.00% 15.75%	10.59% 10.53%	4.41% 5.22%
12/30/1985	14.00%	10.53%	3.49%
12/31/1985	14.50%	10.51%	3.99%
1/17/1986	14.50%	10.38%	4.12%
2/11/1986	12.50%	10.20%	2.30%
2/12/1986 3/11/1986	15.20% 14.00%	10.19% 9.98%	5.01% 4.02%
4/2/1986	12.90%	9.76%	3.14%
4/28/1986	13.01%	9.47%	3.54%
5/21/1986	13.25%	9.18%	4.07%
5/28/1986 5/29/1986	14.00%	9.12%	4.88% 4.80%
6/2/1986	13.90% 13.00%	9.10% 9.08%	4.80% 3.92%
6/11/1986	14.00%	8.97%	5.03%
6/13/1986	13.55%	8.94%	4.61%
6/27/1986	11.88%	8.77%	3.11%
7/14/1986 7/30/1986	12.60% 13.30%	8.59% 8.38%	4.01% 4.92%
8/14/1986	13.50%	8.22%	5.28%
9/5/1986	13.30%	8.02%	5.28%
9/23/1986	12.75%	7.91%	4.84%
10/30/1986	13.00%	7.67%	5.33%
10/31/1986 11/10/1986	13.75% 14.00%	7.66% 7.61%	6.09% 6.39%
11/19/1986	13.75%	7.56%	6.19%
11/25/1986	13.15%	7.54%	5.61%
12/22/1986	13.80%	7.47%	6.33%
12/30/1986 1/20/1987	13.90% 12.75%	7.47% 7.47%	6.43% 5.28%
1/23/1987	13.55%	7.47%	6.08%
1/27/1987	12.16%	7.47%	4.69%
2/13/1987	12.60%	7.47%	5.13%
2/24/1987 3/30/1987	12.00% 12.20%	7.47% 7.46%	4.53% 4.74%
3/30/1987 3/31/1987	12.20%	7.46%	4.74% 5.53%
5/5/1987	12.85%	7.60%	5.25%
5/28/1987	13.50%	7.73%	5.77%
6/15/1987	13.20%	7.80%	5.40%
6/30/1987 7/10/1987	12.60% 12.90%	7.85% 7.88%	4.75% 5.02%
7/27/1987	13.50%	7.93%	5.57%
8/25/1987	11.40%	8.09%	3.31%
9/18/1987	13.00%	8.27%	4.73%
10/20/1987 10/20/1987	12.60%	8.55%	4.05%
11/12/1987	12.98% 12.75%	8.55% 8.68%	4.43% 4.07%
11/13/1987	12.75%	8.68%	4.07%
11/24/1987	12.50%	8.73%	3.77%
12/8/1987	12.50%	8.81%	3.69%
12/22/1987 12/31/1987	12.00% 12.85%	8.90% 8.94%	3.10% 3.91%
12/31/1987	13.25%	8.94%	4.31%
1/15/1988	13.15%	8.99%	4.16%
1/20/1988	12.75%	8.99%	3.76%
1/29/1988 2/4/1988	13.20% 12.60%	8.99% 8.99%	4.21% 3.61%
3/23/1988	13.00%	8.99%	4.05%
5/27/1988	13.18%	9.02%	4.16%

[6] Date of	[7]	[8]	[9]
Natural	_	30-Year	
Gas Rate Case	Return on Equity	Treasury Yield	Risk Premium
6/14/1988	13.50%	9.00%	4.50%
6/17/1988	11.72%	8.99%	2.73%
6/24/1988 7/1/1988	11.50% 12.75%	8.97% 8.95%	2.53% 3.80%
7/8/1988	12.75%	8.93%	3.00%
7/18/1988	12.00%	8.91%	3.09%
7/20/1988	13.40%	8.90%	4.50%
8/8/1988 9/20/1988	12.74% 12.90%	8.90% 8.93%	3.84% 3.97%
9/26/1988	12.30%	8.93%	3.47%
9/27/1988	13.65%	8.93%	4.72%
9/30/1988	13.25%	8.94%	4.31%
10/13/1988 10/21/1988	13.10% 12.80%	8.93% 8.94%	4.17% 3.86%
10/25/1988	13.25%	8.94%	4.31%
10/26/1988	13.50%	8.94%	4.56%
10/27/1988 10/28/1988	12.95% 13.00%	8.94% 8.95%	4.01% 4.05%
11/15/1988	12.00%	8.98%	3.02%
11/29/1988	12.75%	9.01%	3.74%
12/19/1988	13.00%	9.05%	3.95%
12/21/1988 12/22/1988	12.90% 13.50%	9.05% 9.05%	3.85% 4.45%
1/26/1989	12.60%	9.06%	3.54%
1/27/1989	13.00%	9.06%	3.94%
2/8/1989	13.37%	9.05%	4.32%
3/8/1989 5/4/1989	13.00% 13.00%	9.04% 9.04%	3.96% 3.96%
6/8/1989	13.50%	3.04 <i>%</i> 8.96%	4.54%
7/19/1989	11.80%	8.84%	2.96%
7/25/1989	12.80%	8.82%	3.98%
7/31/1989 8/14/1989	13.00% 12.50%	8.81% 8.76%	4.19% 3.74%
8/22/1989	12.30%	8.73%	4.07%
8/23/1989	12.90%	8.72%	4.18%
9/21/1989	12.10%	8.62%	3.48%
10/6/1989 10/17/1989	13.00% 12.41%	8.58% 8.54%	4.42% 3.87%
10/17/1989	12.41%	8.54% 8.54%	3.87% 4.71%
10/20/1989	12.90%	8.53%	4.37%
10/31/1989	13.60%	8.50%	5.10%
11/3/1989	12.93%	8.48%	4.45%
11/5/1989 11/9/1989	13.20% 12.60%	8.48% 8.45%	4.72% 4.15%
11/9/1989	13.00%	8.45%	4.55%
11/28/1989	12.75%	8.37%	4.38%
12/7/1989 12/15/1989	13.25%	8.32%	4.93% 4.72%
12/15/1989	13.00% 12.90%	8.28% 8.26%	4.72% 4.64%
12/21/1989	12.80%	8.25%	4.55%
12/21/1989	12.90%	8.25%	4.65%
12/27/1989 1/9/1990	12.50% 13.00%	8.23% 8.19%	4.27% 4.81%
1/18/1990	12.50%	8.19%	4.81%
1/26/1990	12.10%	8.14%	3.96%
3/21/1990	12.80%	8.15%	4.65%
3/28/1990	13.00% 12.20%	8.16%	4.84%
4/5/1990 4/12/1990	12.20%	8.17% 8.19%	4.03% 5.06%
4/30/1990	12.45%	8.24%	4.21%
5/31/1990	12.40%	8.31%	4.09%
6/15/1990 6/27/1990	13.20% 12.90%	8.33% 8.34%	4.87% 4.56%
6/29/1990	13.25%	8.35%	4.90%
7/6/1990	12.10%	8.36%	3.74%
7/19/1990	11.70%	8.38%	3.32%
8/31/1990 8/31/1990	12.50% 12.50%	8.53% 8.53%	3.97% 3.97%
9/13/1990	12.50%	8.58%	3.92%
9/18/1990	12.75%	8.60%	4.15%
9/20/1990 10/2/1990	12.50% 13.00%	8.61%	3.89%
10/2/1990	11.90%	8.65% 8.68%	4.35% 3.22%
10/31/1990	12.95%	8.70%	4.25%
11/9/1990	13.25%	8.70%	4.55%
11/19/1990 11/21/1990	13.00% 12.10%	8.70% 8.70%	4.30% 3.40%
11/21/1990	12.10%	8.70%	3.40% 3.80%
11/28/1990	12.75%	8.70%	4.05%
11/29/1990	12.75%	8.70%	4.05%
12/18/1990 12/20/1990	13.10% 12.50%	8.68% 8.67%	4.42% 3.83%
12/20/1990	12.50%	8.67%	3.83% 3.83%
12/21/1990	13.00%	8.67%	4.33%
12/21/1990	13.60%	8.67%	4.93%
1/3/1991	13.02%	8.66%	4.36%

Natural 30-Year Risk Treasury Risk Case Equity Yield Premium 1/16/1991 13.25% 8.63% 4.62% 1/25/1991 12.00% 8.56% 4.14% 2/15/1991 12.00% 8.56% 4.24% 4/30/1991 13.00% 8.51% 4.49% 4/30/1991 13.00% 8.48% 4.52% 6/25/1991 11.70% 8.34% 4.16% 7/1/1991 12.00% 8.34% 4.16% 7/1/1991 12.00% 8.31% 3.99% 7/22/1991 12.20% 8.23% 4.17% 9/30/1991 12.40% 8.23% 4.17% 9/30/1991 12.00% 8.20% 5.20% 11/1/1991 12.00% 8.20% 4.55% 11/26/1991 12.70% 8.18% 3.22% 11/26/1991 12.70% 8.18% 3.22% 11/26/1991 12.70% 8.14% 4.66% 12/10/1991 12.00%	[6] Date of	[7]	[8]	[9]
Case Equity Yield Premium 1/16/1991 11.70% 8.63% 4.62% 1/25/1991 12.70% 8.56% 4.14% 2/15/1991 12.00% 8.56% 4.24% 4/30/1991 13.00% 8.51% 4.49% 4/30/1991 13.00% 8.48% 4.52% 6/25/1991 11.70% 8.34% 3.66% 6/22/1991 12.50% 8.34% 3.66% 6/25/1991 12.00% 8.31% 3.79% 7/19/1991 12.00% 8.31% 3.99% 7/19/1991 12.25% 8.28% 3.97% 8/15/1991 13.30% 8.26% 5.04% 9/27/1991 12.60% 8.23% 4.27% 9/30/1991 11.70% 8.21% 3.49% 10/15/1991 13.40% 8.20% 4.55% 11/26/1991 11.00% 8.14% 4.66% 11/26/1991 12.75% 8.20% 4.52% 11/26/1991 12.70% <td< td=""><td>Natural</td><td></td><td></td><td></td></td<>	Natural			
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		11.75%		
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8/12/1993	10.75%	6.97%	3.78%
9/1/1993 11.25% 6.87% 4.38% 9/1/1993 11.47% 6.87% 4.60% 9/27/1993 10.50% 6.74% 3.76% 9/29/1993 11.00% 6.72% 4.28% 9/30/1993 11.60% 6.72% 4.88% 10/8/1993 11.50% 6.67% 4.83% 10/14/1993 11.20% 6.65% 4.55% 10/15/1993 11.55% 6.60% 4.95% 10/28/1993 11.50% 6.58% 4.92%				
9/1/1993 11.47% 6.87% 4.60% 9/27/1993 10.50% 6.74% 3.76% 9/29/1993 11.00% 6.72% 4.28% 9/30/1993 11.60% 6.72% 4.88% 10/8/1993 11.50% 6.67% 4.83% 10/14/1993 11.20% 6.65% 4.55% 10/15/1993 11.55% 6.60% 4.95% 10/28/1993 11.50% 6.58% 4.92%				
9/29/1993 11.00% 6.72% 4.28% 9/30/1993 11.60% 6.72% 4.88% 10/2/1993 11.50% 6.67% 4.83% 10/14/1993 11.20% 6.65% 4.55% 10/15/1993 11.75% 6.64% 5.11% 10/25/1993 11.55% 6.60% 4.95% 10/28/1993 11.50% 6.58% 4.92%	9/1/1993	11.47%	6.87%	4.60%
9/30/1993 11.60% 6.72% 4.88% 10/8/1993 11.50% 6.67% 4.83% 10/14/1993 11.20% 6.65% 4.55% 10/15/1993 11.55% 6.64% 5.11% 10/25/1993 11.55% 6.60% 4.95% 10/28/1993 11.50% 6.58% 4.92%				
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10/28/1993 11.50% 6.58% 4.92%				
10/29/1993 10.10% 6.57% 3.53%	10/28/1993	11.50%	6.58%	4.92%
	10/29/1993	10.10%	6.57%	3.53%

[6] Date of	[7]	[8]	[9]
Natural	Deturn on	30-Year	Diele
Gas Rate Case	Return on Equity	Treasury Yield	Risk Premium
10/29/1993	10.20%	6.57%	3.63%
10/29/1993 11/2/1993	11.25% 10.80%	6.57% 6.56%	4.68% 4.24%
11/12/1993	11.80%	6.53%	5.27%
11/23/1993	12.50%	6.51%	5.99%
11/26/1993 12/1/1993	11.00% 11.45%	6.50% 6.49%	4.50% 4.96%
12/16/1993	10.60%	6.45%	4.15%
12/16/1993	11.20%	6.45%	4.75%
12/21/1993 12/22/1993	11.30% 11.00%	6.44% 6.44%	4.86% 4.56%
12/23/1993	10.10%	6.44%	3.66%
1/5/1994	11.50%	6.41%	5.09%
1/10/1994 1/25/1994	11.00% 12.00%	6.40% 6.37%	4.60% 5.63%
2/2/1994	10.40%	6.35%	4.05%
2/9/1994	10.70%	6.34%	4.36%
4/6/1994 4/25/1994	11.24% 11.00%	6.35% 6.39%	4.89% 4.61%
6/16/1994	10.50%	6.63%	3.87%
6/23/1994	10.60%	6.67%	3.93%
7/19/1994 9/29/1994	10.70% 10.90%	6.83% 7.20%	3.87% 3.70%
9/29/1994	11.00%	7.20%	3.80%
10/7/1994	11.87%	7.26%	4.61%
10/18/1994 10/18/1994	11.50% 11.50%	7.32% 7.32%	4.18% 4.18%
10/18/1994	11.00%	7.35%	3.65%
11/22/1994	12.12%	7.52%	4.60%
11/29/1994	11.30%	7.55%	3.75%
12/1/1994 12/8/1994	11.00% 11.50%	7.56% 7.59%	3.44% 3.91%
12/8/1994	11.70%	7.59%	4.11%
12/12/1994	11.82%	7.60%	4.22%
12/14/1994 12/19/1994	11.50% 11.50%	7.61% 7.62%	3.89% 3.88%
4/19/1995	11.00%	7.72%	3.28%
9/11/1995	11.30%	7.16%	4.14%
9/15/1995 9/29/1995	10.40% 11.50%	7.13% 7.06%	3.27% 4.44%
10/13/1995	10.76%	6.98%	3.78%
11/7/1995	12.50%	6.86%	5.64%
11/8/1995 11/8/1995	11.10% 11.30%	6.85% 6.85%	4.25% 4.45%
11/17/1995	10.90%	6.81%	4.09%
11/20/1995	11.40%	6.80%	4.60%
11/27/1995 12/14/1995	13.60% 11.30%	6.77% 6.68%	6.83% 4.62%
12/20/1995	11.60%	6.65%	4.95%
1/31/1996	11.30%	6.45%	4.85%
3/11/1996 4/3/1996	11.60% 11.13%	6.40% 6.41%	5.20% 4.72%
4/15/1996	10.50%	6.41%	4.09%
4/17/1996	10.77%	6.40%	4.37%
4/26/1996 5/10/1996	10.60%	6.40% 6.40%	4.20% 4.60%
5/13/1996	11.25%	6.41%	4.84%
7/3/1996 7/22/1996	11.25%	6.49% 6.54%	4.76% 4.71%
10/3/1996	11.25% 10.00%	6.77%	3.23%
10/29/1996	11.30%	6.84%	4.46%
11/26/1996 11/27/1996	11.30% 11.30%	6.86% 6.86%	4.44% 4.44%
11/29/1996	11.00%	6.86%	4.44%
12/12/1996	11.96%	6.85%	5.11%
12/17/1996 1/22/1997	11.50% 11.30%	6.85% 6.83%	4.65%
1/27/1997	11.25%	6.83%	4.47% 4.42%
1/31/1997	11.25%	6.83%	4.42%
2/13/1997 2/13/1997	11.00% 11.80%	6.82% 6.82%	4.18% 4.98%
2/20/1997	11.80%	6.81%	4.99%
3/27/1997	10.75%	6.79%	3.96%
4/29/1997 7/17/1997	11.70% 12.00%	6.81% 6.77%	4.89% 5.23%
10/29/1997	10.75%	6.70%	4.05%
10/31/1997	11.25%	6.70%	4.55%
12/24/1997 4/28/1998	10.75% 10.90%	6.53% 6.11%	4.22% 4.79%
4/20/1998	12.20%	6.10%	6.10%
6/30/1998	11.00%	5.94%	5.06%
8/26/1998 9/3/1998	10.93% 11.40%	5.82% 5.80%	5.11% 5.60%
9/3/1998 9/15/1998	11.40%	5.80%	5.60% 6.13%
10/7/1998	11.06%	5.70%	5.36%
10/30/1998	11.40%	5.63%	5.77%

[6] Date of	[7]	[8]	[9]
Natural		30-Year	
Gas Rate Case	Return on Equity	Treasury Yield	Risk Premium
12/10/1998	12.20%	5.52%	6.68%
12/17/1998	12.10%	5.49%	6.61%
2/19/1999 3/1/1999	11.15% 10.65%	5.32% 5.31%	5.83% 5.34%
3/1/1999	10.65%	5.31%	5.34%
6/8/1999	11.25%	5.35%	5.90%
11/12/1999	10.25%	5.92%	4.33%
12/14/1999 1/28/2000	10.50% 10.71%	5.99% 6.16%	4.51% 4.55%
2/17/2000	10.60%	6.20%	4.40%
5/25/2000	10.80%	6.19%	4.61%
6/19/2000 6/22/2000	11.05% 11.25%	6.18% 6.18%	4.87% 5.07%
7/17/2000	11.06%	6.15%	4.91%
7/20/2000	12.20%	6.14%	6.06%
8/11/2000 9/27/2000	11.00% 11.25%	6.11% 6.00%	4.89% 5.25%
9/29/2000	11.16%	6.00%	5.16%
10/5/2000	11.30%	5.98%	5.32%
11/28/2000	12.90%	5.87%	7.03%
11/30/2000 2/5/2001	12.10% 11.50%	5.86% 5.75%	6.24% 5.75%
3/15/2001	11.25%	5.66%	5.59%
5/8/2001	10.75%	5.61%	5.14%
10/24/2001 10/24/2001	10.30% 11.00%	5.54% 5.54%	4.76% 5.46%
1/9/2002	10.00%	5.50%	4.50%
1/30/2002	11.00%	5.47%	5.53%
1/31/2002	11.00%	5.47%	5.53% 6.06%
4/17/2002 4/29/2002	11.50% 11.00%	5.44% 5.45%	6.06% 5.55%
6/11/2002	11.77%	5.48%	6.29%
6/20/2002	12.30%	5.48%	6.82%
8/28/2002 9/11/2002	11.00% 11.20%	5.49% 5.45%	5.51% 5.75%
9/12/2002	12.30%	5.45%	6.85%
10/28/2002	11.30%	5.35%	5.95%
10/30/2002 11/1/2002	10.60% 12.60%	5.34% 5.34%	5.26% 7.26%
11/7/2002	12.00%	5.33%	6.07%
11/8/2002	10.75%	5.33%	5.42%
11/20/2002	10.00%	5.30%	4.70%
11/20/2002 12/4/2002	10.50% 10.75%	5.30% 5.27%	5.20% 5.48%
12/30/2002	11.20%	5.19%	6.01%
1/6/2003	11.25%	5.16%	6.09%
2/28/2003 3/7/2003	12.30% 9.96%	5.01% 4.99%	7.29% 4.97%
3/12/2003	11.40%	4.97%	6.43%
3/20/2003	12.00%	4.95%	7.05%
4/3/2003 5/2/2003	12.00% 11.40%	4.92% 4.88%	7.08% 6.52%
5/15/2003	11.05%	4.87%	6.18%
6/26/2003	11.00%	4.80%	6.20%
7/1/2003 7/29/2003	11.00% 11.71%	4.80% 4.78%	6.20% 6.93%
8/22/2003	10.20%	4.73%	5.39%
9/17/2003	9.90%	4.85%	5.05%
9/25/2003 10/17/2003	10.25% 10.54%	4.85% 4.87%	5.40% 5.67%
10/17/2003	10.34%	4.87%	5.59%
10/22/2003	10.71%	4.87%	5.84%
10/30/2003	11.00%	4.88%	6.12%
10/31/2003 10/31/2003	10.20% 10.75%	4.88% 4.88%	5.32% 5.87%
11/10/2003	10.60%	4.89%	5.71%
12/9/2003	10.50%	4.93%	5.57%
12/18/2003 12/19/2003	10.50% 12.00%	4.94% 4.94%	5.56% 7.06%
12/19/2003	12.00%	4.94%	7.06%
1/13/2004	10.25%	4.95%	5.30%
1/13/2004 2/9/2004	12.00% 11.25%	4.95% 4.98%	7.05% 6.27%
3/16/2004	10.90%	4.98% 5.05%	6.27% 5.85%
3/16/2004	10.90%	5.05%	5.85%
5/25/2004	10.00%	5.06%	4.94%
6/2/2004 6/30/2004	11.22% 10.50%	5.07% 5.10%	6.15% 5.40%
7/8/2004	10.00%	5.10%	4.90%
7/22/2004	10.25%	5.10%	5.15%
8/26/2004 8/26/2004	10.50% 10.50%	5.10% 5.10%	5.40% 5.40%
9/9/2004	10.40%	5.10%	5.30%
9/21/2004	10.50%	5.09%	5.41%
9/27/2004 9/27/2004	10.30% 10.50%	5.09% 5.09%	5.21% 5.41%
5,21,2004	.0.0070	0.0070	5.4170

[6] Date of	[7]	[8]	[9]
Natural Gas Rate	Return on	30-Year Treasury	Risk
Case	Equity	Yield	Premium
10/20/2004	10.20%	5.08%	5.12%
11/30/2004	10.60%	5.08%	5.52%
12/8/2004	9.90%	5.09%	4.81%
12/21/2004 12/22/2004	11.50% 11.50%	5.09% 5.09%	6.41% 6.41%
12/28/2004	10.25%	5.09%	5.16%
2/18/2005	10.30%	4.95%	5.35%
3/29/2005	11.00%	4.86%	6.14%
4/13/2005	10.60%	4.84%	5.76%
4/28/2005 5/17/2005	11.00% 10.00%	4.80%	6.20% 5.23%
6/8/2005	10.00%	4.77% 4.71%	5.23% 5.47%
6/10/2005	10.10%	4.71%	6.19%
7/6/2005	10.50%	4.65%	5.85%
7/19/2005	11.50%	4.63%	6.87%
8/11/2005	10.40%	4.60%	5.80%
9/19/2005	9.45%	4.53%	4.92%
9/30/2005 10/4/2005	10.51% 9.90%	4.52% 4.52%	5.99% 5.38%
10/4/2005	10.75%	4.52%	6.23%
10/14/2005	10.40%	4.52%	5.88%
10/31/2005	10.25%	4.53%	5.72%
11/2/2005	9.70%	4.53%	5.17%
11/30/2005	10.00%	4.53%	5.47%
12/9/2005	9.70%	4.53%	5.17%
12/12/2005	11.00% 10.13%	4.53% 4.53%	6.47%
12/20/2005 12/21/2005	10.13%	4.53% 4.52%	5.60% 5.88%
12/21/2005	11.00%	4.52%	6.48%
12/22/2005	10.20%	4.52%	5.68%
12/22/2005	11.00%	4.52%	6.48%
12/28/2005	10.00%	4.52%	5.48%
1/5/2006	11.00%	4.52%	6.48%
1/25/2006 1/25/2006	11.20% 11.20%	4.52% 4.52%	6.68% 6.68%
2/3/2006	10.50%	4.52%	5.98%
2/15/2006	9.50%	4.53%	4.97%
4/26/2006	10.60%	4.65%	5.95%
7/24/2006	9.60%	4.87%	4.73%
7/24/2006	10.00%	4.87%	5.13%
9/20/2006	11.00%	4.93%	6.07%
9/26/2006	10.75%	4.93%	5.82%
10/20/2006 11/2/2006	9.80% 9.71%	4.96% 4.97%	4.84% 4.74%
11/9/2006	10.00%	4.97%	5.03%
11/21/2006	11.00%	4.98%	6.02%
12/5/2006	10.20%	4.97%	5.23%
1/5/2007	10.40%	4.95%	5.45%
1/9/2007	11.00%	4.94% 4.94%	6.06%
1/11/2007 1/19/2007	10.90% 10.80%	4.94% 4.93%	5.96% 5.87%
1/26/2007	10.00%	4.92%	5.08%
2/8/2007	10.40%	4.91%	5.49%
3/14/2007	10.10%	4.86%	5.24%
3/20/2007	10.25%	4.84%	5.41%
3/21/2007	11.35%	4.84%	6.51% 5.66%
3/22/2007 3/29/2007	10.50% 10.00%	4.84% 4.83%	5.00%
6/13/2007	10.75%	4.81%	5.94%
6/29/2007	9.53%	4.84%	4.69%
6/29/2007	10.10%	4.84%	5.26%
7/3/2007	10.25%	4.85%	5.40%
7/13/2007 7/24/2007	9.50% 10.40%	4.86% 4.87%	4.64%
8/1/2007	10.40%	4.87%	5.53% 5.27%
8/29/2007	10.50%	4.91%	5.59%
9/10/2007	9.71%	4.91%	4.80%
9/19/2007	10.00%	4.91%	5.09%
9/25/2007	9.70%	4.92%	4.78%
10/8/2007	10.48%	4.92%	5.56%
10/19/2007 10/25/2007	10.50% 9.65%	4.91% 4.91%	5.59% 4.74%
11/15/2007	10.00%	4.89%	5.11%
11/20/2007	9.90%	4.89%	5.01%
11/27/2007	10.00%	4.88%	5.12%
11/29/2007	10.90%	4.88%	6.02%
12/14/2007	10.80%	4.87%	5.93%
12/18/2007	10.40%	4.86%	5.54%
12/19/2007 12/19/2007	9.80% 9.80%	4.86% 4.86%	4.94% 4.94%
12/19/2007	9.80%	4.86%	4.94% 5.34%
12/21/2007	9.10%	4.86%	4.24%
1/8/2008	10.75%	4.83%	5.92%
1/17/2008	10.75%	4.81%	5.94%
1/17/2008	10.75%	4.81%	5.94%
2/5/2008	9.99%	4.78%	5.21%

[6] Date of	[7]	[8]	[9]
Natural		30-Year	
Gas Rate	Return on	Treasury Yield	Risk Premium
Case 2/5/2008	Equity 10.19%	4.78%	5.41%
2/13/2008	10.20%	4.76%	5.44%
3/31/2008	10.00%	4.63%	5.37%
5/28/2008 6/24/2008	10.50% 10.00%	4.53% 4.52%	5.97% 5.48%
6/27/2008	10.00%	4.52%	5.48%
7/31/2008	10.70%	4.50%	6.20%
7/31/2008 8/27/2008	10.82% 10.25%	4.50% 4.50%	6.32% 5.75%
9/2/2008	10.25%	4.50%	5.75%
9/19/2008	10.70%	4.48%	6.22%
9/24/2008	10.68%	4.48%	6.20%
9/24/2008 9/24/2008	10.68% 10.68%	4.48% 4.48%	6.20% 6.20%
9/30/2008	10.20%	4.48%	5.72%
10/3/2008	10.30%	4.48%	5.82%
10/8/2008	10.15%	4.47%	5.68%
10/20/2008 10/24/2008	10.06% 10.60%	4.47% 4.46%	5.59% 6.14%
10/24/2008	10.60%	4.46%	6.14%
11/21/2008	10.50%	4.42%	6.08%
11/21/2008	10.50%	4.42%	6.08%
11/21/2008 11/24/2008	10.50% 10.50%	4.42% 4.41%	6.08% 6.09%
12/3/2008	10.30%	4.41%	6.02%
12/24/2008	10.00%	4.26%	5.74%
12/26/2008	10.10%	4.24%	5.86%
12/29/2008	10.20%	4.23%	5.97%
1/13/2009 2/2/2009	10.45% 10.05%	4.14% 4.04%	6.31% 6.01%
3/9/2009	10.30%	3.89%	6.41%
3/25/2009	10.17%	3.84%	6.34%
4/2/2009	10.75%	3.81%	6.94%
5/5/2009 5/15/2009	10.75% 10.20%	3.71% 3.70%	7.04% 6.50%
5/29/2009	9.54%	3.70%	5.84%
6/3/2009	10.10%	3.71%	6.39%
6/22/2009	10.00%	3.73%	6.27%
6/29/2009 6/30/2009	10.21% 9.31%	3.74% 3.74%	6.47% 5.57%
7/17/2009	9.26%	3.74%	5.51%
7/17/2009	10.50%	3.75%	6.75%
10/16/2009	10.40%	4.09%	6.31%
10/26/2009 10/28/2009	10.10% 10.15%	4.11% 4.12%	5.99% 6.03%
10/28/2009	10.15%	4.12%	6.03%
10/30/2009	9.95%	4.12%	5.83%
11/20/2009	9.45%	4.18%	5.27%
12/14/2009 12/16/2009	10.50% 10.75%	4.24% 4.25%	6.26% 6.50%
12/17/2009	10.75%	4.25%	6.04%
12/18/2009	10.40%	4.26%	6.14%
12/18/2009	10.40%	4.26%	6.14%
12/18/2009 12/22/2009	10.50% 10.20%	4.26% 4.27%	6.24% 5.93%
12/22/2009	10.20%	4.27%	6.13%
12/28/2009	10.85%	4.29%	6.56%
12/29/2009	10.38%	4.30%	6.08%
1/11/2010 1/21/2010	10.24% 10.23%	4.34% 4.37%	5.90% 5.86%
1/21/2010	10.23%	4.37%	5.86% 5.96%
1/26/2010	10.40%	4.37%	6.03%
2/10/2010	10.00%	4.39%	5.61%
2/23/2010 3/9/2010	10.50% 9.60%	4.40% 4.40%	6.10% 5.20%
3/24/2010	10.13%	4.42%	5.71%
3/31/2010	10.70%	4.43%	6.27%
4/1/2010	9.50%	4.43%	5.07%
4/2/2010 4/8/2010	10.10% 10.35%	4.44% 4.44%	5.66% 5.91%
4/29/2010	9.19%	4.44%	4.73%
4/29/2010	9.40%	4.46%	4.94%
4/29/2010	9.40%	4.46%	4.94%
5/17/2010	10.55%	4.46%	6.09%
5/24/2010 6/3/2010	10.05% 11.00%	4.46% 4.46%	5.59% 6.54%
6/16/2010	10.00%	4.46%	5.54%
6/18/2010	10.30%	4.46%	5.84%
8/9/2010	12.55%	4.41%	8.14% 5.70%
8/17/2010 9/16/2010	10.10% 9.60%	4.40% 4.31%	5.70% 5.29%
9/16/2010	10.00%	4.31%	5.69%
9/16/2010	10.00%	4.31%	5.69%
9/16/2010 10/21/2010	10.30% 10.40%	4.31% 4.20%	5.99% 6.20%
10/21/2010	9.75%	4.20% 4.17%	6.20% 5.58%
	2070		2.0070

[6] Date of	[7]	[8]	[9]
Natural		30-Year	
Gas Rate	Return on	Treasury	Risk
Case 11/2/2010	Equity 9.75%	Yield 4.17%	Premium 5.58%
11/3/2010	10.75%	4.17%	6.58%
11/19/2010	10.20%	4.15%	6.05%
12/1/2010 12/6/2010	10.00% 9.56%	4.13% 4.12%	5.87% 5.44%
12/6/2010	10.09%	4.12%	5.97%
12/9/2010	10.25%	4.12%	6.13%
12/14/2010	10.33%	4.11%	6.22%
12/17/2010 12/20/2010	10.10% 10.10%	4.11% 4.11%	5.99% 5.99%
12/23/2010	9.92%	4.10%	5.82%
1/6/2011	10.35%	4.09%	6.26%
1/12/2011 1/13/2011	10.30% 10.30%	4.09% 4.09%	6.21% 6.21%
3/10/2011	10.30%	4.09%	5.94%
3/31/2011	9.45%	4.20%	5.25%
4/18/2011	10.05%	4.23%	5.82%
4/21/2011 5/26/2011	10.00% 10.50%	4.24% 4.32%	5.76% 6.18%
6/21/2011	10.00%	4.36%	5.64%
6/29/2011	8.83%	4.38%	4.45%
8/1/2011	9.20%	4.41%	4.79%
9/1/2011 11/14/2011	10.10% 9.60%	4.33% 3.93%	5.77% 5.67%
12/13/2011	9.50%	3.76%	5.74%
12/20/2011	10.00%	3.72%	6.28%
12/22/2011	10.40%	3.70%	6.70%
1/10/2012 1/10/2012	9.06% 9.45%	3.59% 3.59%	5.47% 5.86%
1/10/2012	9.45%	3.59%	5.86%
1/23/2012	10.20%	3.53%	6.67%
1/31/2012 4/24/2012	10.00% 9.50%	3.49% 3.16%	6.51%
4/24/2012	9.50% 9.75%	3.16%	6.34% 6.59%
5/7/2012	9.80%	3.13%	6.67%
5/22/2012	9.60%	3.10%	6.50%
5/24/2012 6/7/2012	9.70% 10.30%	3.09% 3.06%	6.61% 7.24%
6/15/2012	10.30%	3.05%	7.35%
6/18/2012	9.60%	3.05%	6.55%
7/2/2012	9.75%	3.04%	6.71%
10/24/2012 10/26/2012	10.30% 9.50%	2.92% 2.92%	7.38% 6.58%
10/31/2012	9.30%	2.92%	6.38%
10/31/2012	9.90%	2.92%	6.98%
10/31/2012	10.00%	2.92%	7.08%
11/1/2012 11/8/2012	9.45% 10.10%	2.92% 2.91%	6.53% 7.19%
11/9/2012	10.30%	2.91%	7.39%
11/26/2012	10.00%	2.89%	7.11%
11/28/2012 11/28/2012	10.40% 10.50%	2.88% 2.88%	7.52% 7.62%
12/4/2012	10.00%	2.87%	7.13%
12/4/2012	10.50%	2.87%	7.63%
12/14/2012	10.40%	2.85%	7.55%
12/20/2012 12/20/2012	9.50% 10.10%	2.84% 2.84%	6.66% 7.26%
12/20/2012	10.25%	2.84%	7.41%
12/20/2012	10.30%	2.84%	7.46%
12/20/2012	10.40%	2.84%	7.56%
12/20/2012 12/26/2012	10.50% 9.80%	2.84% 2.83%	7.66% 6.97%
2/22/2012	9.60%	2.86%	6.74%
3/14/2013	9.30%	2.89%	6.41%
3/27/2013	9.80%	2.91%	6.89%
4/23/2013 5/10/2013	9.80% 9.25%	2.95% 2.96%	6.85% 6.29%
6/13/2013	9.40%	3.01%	6.39%
6/18/2013	9.28%	3.02%	6.26%
6/18/2013	9.28%	3.02%	6.26%
6/25/2013 9/23/2013	9.80% 9.60%	3.04% 3.33%	6.76% 6.27%
11/6/2013	10.20%	3.42%	6.78%
11/13/2013	9.84%	3.44%	6.40%
11/14/2013	10.25%	3.44%	6.81%
11/22/2013 12/5/2013	9.50% 10.20%	3.47% 3.49%	6.03% 6.71%
12/13/2013	9.60%	3.52%	6.08%
12/16/2013	9.70%	3.52%	6.18%
12/17/2013 12/18/2013	10.00% 9.08%	3.53% 3.53%	6.47% 5.55%
12/18/2013	9.08% 9.72%	3.53% 3.54%	5.55% 6.18%
		Average	4.44%
	,	Count	985

Small Size Premium

	[1]	[2]
	Customers (Mil)	(\$Bil)
Liberty Utilities (Midstates Natural Gas) Corp. Equity	0.082	\$0.051
Median Market to Book for Comp Group		1.60
Liberty Utilities Implied Market Cap		\$0.082

		[3]	[4]	[5]
			Market Cap	Market to
Company Name	Ticker	Customers (Mil)	(\$Bil)	Book Ratio
AGL Resources Inc.	GAS	4.46	\$5.52	1.56
Atmos Energy Corporation	ATO	3.13	\$4.07	1.57
Laclede Group, Inc.	LG	0.63	\$1.49	1.43
New Jersey Resources Corporation	NJR	0.50	\$1.89	2.14
Northwest Natural Gas Company	NWN	0.68	\$1.14	1.57
Piedmont Natural Gas Company, Inc.	PNY	0.98	\$2.49	2.10
South Jersey Industries, Inc.	SJI	0.35	\$1.79	2.35
Southwest Gas Corporation	SWX	1.86	\$2.47	1.82
WGL Holdings, Inc.	WGL	1.09	\$2.04	1.60
Median		0.98	\$2.04	1.60
Mean		1.52	\$2.55	1.79

	Market Capitalization (\$Mil) [6]											
Decile		Low		High	Size Premium							
2	\$	7,747.951	\$	17,541.302	0.76%							
3	\$	4,250.360	\$	7,686.611	0.92%							
4	\$	2,772.831	\$	4,227.668	1.14%							
5	\$	1,912.240	\$	2,759.391	1.70%							
6	\$	1,346.619	\$	1,909.051	1.72%							
7	\$	822.077	\$	1,346.528	1.73%							
8	\$	514.459	\$	818.065	2.46%							
9	\$	254.604	\$	514.209	2.70%							
10	\$	1.139	\$	253.761	6.03%							

Notes:

[1] Algonquin Power & Utilities Annual Report December 31, 2012, p. 15 (includes Missouri, Illinois, and Iowa)

[2] Requested Rate Base x Equity Ratio

[3] Source: SNL Financial

[4] Source: Bloomberg, 30-day average

[5] Source: Bloomberg, 30-day average

[6] Source: Ibbotson Associates, 2013 Ibbotson SBBI Risk Premia Over Time Report

Flotation Cost Adjustment

Two most recent open market common stock issuances per company, if available

						Net		Gross Equity		Flotation
		Shares	Offering	Underwriting	Offering	Proceeds	Total Flotation	Issue Before		Cost
Company	Date	Issued	Price	Discount	Expense	Per Share	Costs	Costs	Net Proceeds	Percentage
Algonguin Power & Utilities Corporation	10/13/2011	16,869,000	\$5.68	\$0.2300	\$1,106,191	\$5.45	\$4,986,061	\$95,846,284	\$90,860,223	5.202%
Algonquin Power & Utilities Corporation	11/16/2009	6,877,000	\$3.17	\$0.1600	\$473,657	\$3.01	\$1,573,977	\$21,824,160	\$20,250,183	7.212%
AGL Resources Inc.	11/19/2004	11,040,000	\$31.01	\$0.9300	\$400,000	\$30.04	\$10,667,200	\$342,350,400	\$331,683,200	3.116%
AGL Resources Inc.	2/11/2003	6,440,000	\$22.00	\$0.7700	\$250,000	\$21.19	\$5,208,800	\$141,680,000	\$136,471,200	3.676%
Atmos Energy Corporation	12/7/2006	6,325,000	\$31.50	\$1.1025	\$400,000	\$30.33	\$7,373,313	\$199,237,500	\$191,864,188	3.701%
Atmos Energy Corporation	10/21/2004	16,100,000	\$24.75	\$0.9900	\$400,000	\$23.74	\$16,339,000	\$398,475,000	\$382,136,000	4.100%
aclede Group, Inc. (The)	5/23/2013	10,005,000	\$44.50	\$1.7244	\$1,000,000	\$42.68	\$18,252,372	\$445,222,500	\$426,970,128	4.100%
aclede Group, Inc. (The)	5/25/2004	1,725,000	\$26.80	\$0.8710	\$100,000	\$25.87	\$1,602,475	\$46,230,000	\$44,627,525	3.466%
lorthwest Natural Gas Company	3/30/2004	1,290,000	\$31.00	\$1.0100	\$175,000	\$29.85	\$1,477,900	\$39,990,000	\$38,512,100	3.696%
Piedmont Natural Gas Company, Inc.	1/30/2013	4,000,000	\$32.00	\$1.1200	\$350,000	\$30.79	\$4,830,000	\$128,000,000	\$123,170,000	3.773%
Piedmont Natural Gas Company, Inc.	1/20/2004	4,887,500	\$42.50	\$1.4900	\$350,000	\$40.94	\$7,632,375	\$207,718,750	\$200,086,375	3.674%
WGL Holdings, Inc.	6/20/2001	2,058,500	\$26.73	\$0.8950	\$56,218	\$25.81	\$1,898,576	\$55,023,705	\$53,125,130	3.450%
Nean							\$6,820,171	\$176,799,858		
							WEIGHTED A	VERAGE FLOT	ATION COSTS:	3.858%

Constant Growth Discounted Cash Flow Model Adjusted for Flotation Costs - 30 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]
			Average		Expected D	Dividend Yield	Zacks	First Call	Value Line		Average		Flotation
		Annualized	Stock	Dividend		Adjusted for	Earnings	Earnings	Earnings	Retention	Earnings		Adjusted
Company	Ticker	Dividend	Price	Yield	Current	Flot. Costs	Growth	Growth	Growth	Growth	Growth	DCF k(e)	DCF k(e)
AGL Resources Inc.	GAS	\$1.88	\$46.44	4.05%	4.17%	4.33%	5.00%	NA	8.00%	4.66%	5.89%	10.05%	10.22%
Atmos Energy Corporation	ATO	\$1.48	\$44.74	3.31%	3.42%	3.56%	6.50%	7.75%	7.50%	6.30%	7.01%	10.44%	10.57%
Laclede Group, Inc. (The)	LG	\$1.76	\$45.67	3.85%	3.95%	4.11%	4.30%	4.90%	6.00%	4.82%	5.00%	8.95%	9.11%
New Jersey Resources Corporation	NJR	\$1.68	\$45.15	3.72%	3.81%	3.96%	4.00%	2.50%	5.50%	7.16%	4.79%	8.60%	8.75%
Northwest Natural Gas Company	NWN	\$1.84	\$42.38	4.34%	4.43%	4.61%	4.00%	4.00%	4.50%	4.46%	4.24%	8.67%	8.85%
Piedmont Natural Gas Company, Inc.	PNY	\$1.24	\$32.82	3.78%	3.86%	4.01%	5.00%	4.00%	4.00%	3.64%	4.16%	8.02%	8.17%
South Jersey Industries, Inc.	SJI	\$1.89	\$55.64	3.40%	3.52%	3.66%	6.00%	6.00%	7.50%	9.66%	7.29%	10.81%	10.95%
Southwest Gas Corporation	SWX	\$1.32	\$53.38	2.47%	2.54%	2.64%	3.40%	2.55%	8.00%	8.00%	5.49%	8.03%	8.13%
WGL Holdings, Inc.	WGL	\$1.68	\$39.40	4.26%	4.35%	4.53%	4.60%	4.60%	3.50%	3.89%	4.15%	8.50%	8.67%
PROXY GROUP MEAN				3.69%	3.78%	3.94%						9.12%	9.27%
									D	CE Result Adi	isted For Flo	tation Costs:	9 27%

DCF Result Adjusted For Flotation Costs: 9.27% DCF Result Unadjusted For Flotation Costs: 9.12%

Difference (Flotation Cost Adjustment): 0.15% [12]

Notes: The proxy group DCF result is adjusted for flotation costs by dividing each company's expected dividend yield by (1 - flotation cost). The flotation cost adjustment

is derived as the difference between the unadjusted DCF result and the DCF result adjusted for flotation costs.

Stock issuances for Algonquin Power & Utilities Corporation were provided in Canadian Dollars, and converted to US Dollars by SNL Financial. Overallotment

reflects shares exercised.

[1] Source: Bloomberg Professional [2] Source: Bloomberg Professional [3] Equals [1] / [2] [4] Equals [3] x (1 + 0.5 x [10]) [5] Equals [4] / (1 - 0.0386) [6] Source: Zacks [7] Source: Yahoo! Finance [8] Source: Value Line [9] Source: Schedule RBH-4 [10] Equals Average([6], [7], [8], [9]) [11] Equals [4] + [10] [12] Equals [5] + [10] [13] Equals average [12] - average [11]

Proxy Group Capital Structure

	% Common Equity										
Company	Ticker	2013Q3	2013Q2	2013Q1	2012Q4	2012Q3	2012Q2	2012Q1	2011Q4	Average	
AGL Resources Inc.	GAS	48.02%	48.10%	49.83%	49.00%	48.74%	48.90%	48.82%	48.11%	48.69%	
Atmos Energy Corporation	ATO	51.23%	51.25%	50.88%	55.34%	54.66%	51.63%	51.69%	50.69%	52.17%	
Laclede Group, Inc. (The)	LG	53.40%	69.94%	57.94%	63.00%	62.26%	62.63%	62.78%	61.79%	61.72%	
New Jersey Resources Corporation	NJR	60.41%	60.42%	62.60%	61.57%	60.43%	65.72%	66.34%	65.11%	62.82%	
Northwest Natural Gas Company	NWN	49.61%	51.97%	52.24%	51.30%	52.68%	53.38%	53.67%	51.06%	51.99%	
Piedmont Natural Gas Company, Inc.	PNY	55.41%	55.80%	52.99%	51.30%	51.73%	52.20%	60.41%	59.63%	54.93%	
South Jersey Industries, Inc.	SJI	55.74%	55.16%	55.39%	54.03%	54.06%	55.41%	61.03%	59.41%	56.28%	
Southwest Gas Corporation	SWX	51.34%	52.09%	52.36%	49.84%	50.10%	51.19%	48.19%	49.45%	50.57%	
WGL Holdings, Inc.	WGL	68.32%	69.52%	69.90%	68.81%	68.30%	68.55%	67.90%	66.09%	68.42%	
Mean		54.83%	57.14%	56.01%	56.02%	55.88%	56.62%	57.87%	56.81%	56.40%	

					% L	.ong-Term [Debt			
Company	Ticker	2013Q3	2013Q2	2013Q1	2012Q4	2012Q3	2012Q2	2012Q1	2011Q4	Average
AGL Resources Inc.	GAS	51.98%	51.90%	50.17%	51.00%	51.26%	51.10%	51.18%	51.89%	51.31%
Atmos Energy Corporation	ATO	48.77%	48.75%	49.12%	44.66%	45.34%	48.37%	48.31%	49.31%	47.83%
Laclede Group, Inc. (The)	LG	46.60%	30.06%	42.06%	37.00%	37.74%	37.37%	37.22%	38.21%	38.28%
New Jersey Resources Corporation	NJR	39.59%	39.58%	37.40%	38.43%	39.57%	34.28%	33.66%	34.89%	37.18%
Northwest Natural Gas Company	NWN	50.39%	48.03%	47.76%	48.70%	47.32%	46.62%	46.33%	48.94%	48.01%
Piedmont Natural Gas Company, Inc.	PNY	44.59%	44.20%	47.01%	48.70%	48.27%	47.80%	39.59%	40.37%	45.07%
South Jersey Industries, Inc.	SJI	44.26%	44.84%	44.61%	45.97%	45.94%	44.59%	38.97%	40.59%	43.72%
Southwest Gas Corporation	SWX	48.66%	47.91%	47.64%	50.16%	49.90%	48.81%	51.81%	50.55%	49.43%
WGL Holdings, Inc.	WGL	31.68%	30.48%	30.10%	31.19%	31.70%	31.45%	32.10%	33.91%	31.58%
Mean		45.17%	42.86%	43.99%	43.98%	44.12%	43.38%	42.13%	43.19%	43.60%

Source: SNL Financial

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Liberty Utilities)(Midstates Natural Gas) Corp. d/b/a)Liberty Utilities' Tariff Revisions Designed)To Implement a General Rate Increase)For Natural Gas Service in the Missouri)Service Areas of the Company.)

Case No. GR-2014-0152

AFFIDAVIT OF ROBERT B. HEVERT

COMMONWEALTH OF MASSACHUSETTS)) ss COUNTY OF MIDDLESEX)

Robert B. Hevert, being first duly sworn on his oath, states:

1. My name is Robert B. Hevert. I am Managing Partner of Sussex Economic Advisors, LLC and my business address is 161 Worcester Road, Suite 503, Framingham, Massachusetts 01701.

2. Attached hereto and made a part hereof for all purposes is my Direct Testimony on behalf of Liberty Utilities (Midstates Natural Gas) Corp. d/b/a Liberty Utilities consisting of forty-nine (49) pages and Attachment A, Schedules RBH-1 through RBH-11, and Schedule COS-9, all of which having been prepared in written form for introduction into evidence in the above-captioned docket.

3. I have knowledge of the matters set forth therein. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded, including any attachments thereto, are true and accurate to the best of my knowledge, information and belief.

Robert B. Hevert

Subscribed and sworn before me this 6th day of February, 2014.

Notary Public

My commission expires:

