# **Starting Soon**

### 2022 State Assessed Property Spring Forum



# 2022 State Assessed Property Spring Forum

March 14, 2022



#### Disclaimer

This presentation is for educational purposes only and does not provide tax advice. It is meant to accompany an oral presentation and not to be used as a standalone document.

This presentation is based on the facts and circumstances being discussed, and on the laws in effect when it is presented. It does not supersede or alter any provisions of Minnesota laws, administrative rules, court cases, or revenue notices.

If you have any questions, contact us at sa.property@state.mn.us or consult a tax professional.

# Agenda

- Department updates
- Draft capitalization study overview
- Questions
- Public comments

# Department Updates

- Property Tax Division
- Remote Work
- Reporting
- Audit expectations



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#### Minnesota Department of Revenue

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#### Capitalization Rate Study

The Minnesota Department of Revenue assesses utility, pipeline, and railroad operating property.

Last Updated: April 24, 2020

https://www.revenue.state.mn.us/capitalization-rate-study

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#### Capitalization Rate Study

MENU

The Minnesota Department of Revenue develops a Capitalization Rate Study yearly. We use the capitalization rates published in the study to help determine the unitary value of state assessed property as of January 2 each year. State assessed property includes utility, pipeline, and railroad operating property.

How does the department complete the study?

How can I view the study?

2022 Draft Capitalization Rate Study

#### Questions?

If you have questions, email us at sa.property@state.mn.us.

#### Contact Info

**EMAIL** 

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#### Last Updated

April 24, 2020



# Capitalization Rate Study and Methodologies

#### Introduction

	Capital Structure	×	Market Rate	=	Weighted Rate
Debt	50%	×	6%	=	3%
Equity	50%	×	10%	=	5%
Combined Rate				=	8%

Beginning on page 1 of Draft Study

# Changes from Last Year's Study

- No longer using ERP estimates from Kroll (formerly known as Duff & Phelps) Cost of Capital Navigator
- Using Indexed Rate of Debt from Mergent Bond Record for Draft Study

#### Yield Rate

Net Operating Income or

Net Railway Operating Income

Value = Yield Rate

## Yield Rate - Guideline Company Selection

#### **Guideline Company Selection**

#### **Considerations:**

- Value Line industries
- Standard industrial classification codes
- Location
- Business segments
- Recent or current mergers and acquisitions
- Recent initial public offering

## Yield Rate - Market Rate of Equity

### **Market Rate of Equity**

**Capital Asset Pricing Model:** 

Rate of Equity = (Equity Risk Premium x Beta) + Risk-Free Rate

### Yield Rate - Equity Risk Premium Estimates

#### **Equity Risk Premium Estimates:**

- Three-stage ex ante
- Dr. Damodaran
- Duke CFO Global Business
   Outlook Survey
- Fernandez, Banuls, and Acin
- BVR Arithmetic
- BVR Geometric

# Yield Rate - CAPM Data Inputs

CAPM Data Inputs	2022 AY	2021 AY
Risk-Free Rate	2.01%	1.66%
BVR - Historical, Arithmetic	6.21%	5.90%

## Yield Rate - Market Rate of Equity

### **Market Rate of Equity**

**Dividend Growth Model:** 

Rate of Equity = Dividend Yield + Growth Estimate

# Yield Rate - Market Rate of Equity

### **Market Rate of Equity**

Two-Stage Dividend Growth Model:

```
Rate of Equity = (Dividend Yield x (1 + 0.5 x Avg Growth Rate))
```

- + 0.67 x Short-term Growth Rate
- + 0.33 x Long-term Growth Rate

#### Yield Rate - Market Rate of Debt

#### **Market Rate of Debt**

**Corporate Bond Yield Averages** 

#### Yield Rate - Market Rate of Preferred Stock

#### **Market Rate of Preferred Stock**

#### Direct Rate

### **Equity Component**

Indicated Equity Component =

#### Other

- Flotation costs
- Company-specific risk
- Illiquidity

#### Growth

- Short-term growth
- Long-term growth
- Inflation

#### **Comments Welcome**

Email comments to <a href="mailto:sa.property@state.mn.us">sa.property@state.mn.us</a> by March 31.

# Updates

- Equity Risk Premium Estimates
- Market rate of debt

# Appendices

- Appendix A Electric
- Appendix B Gas Distribution
- Appendix C Gas Transmission Pipeline
- Appendix D Fluid Transportation Pipeline
- Appendix E Railroads
- Appendix F Ex Ante Calculations
- Appendix G Guideline Company Selection

### Continuing Education for Minnesota Assessors

#### Check-in — Send chat to the Host:

- 1. Name
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### Data

# Electric

Electric	2022 AY	2021 AY
Yield rate	6.37%	6.34%
Debt in capital structure	39%	35%
Equity in capital structure	61%	65%
Cost of equity	8.30%	8.05%
Cost of debt	3.36%	3.17%
Beta	0.90	0.86
Single-stage DGM – Earnings Growth	9.05%	8.50%
Two-stage DGM	8.38%	8.01%
Dividend yield	3.20%	3.45%
Short-term earnings growth est.	5.77%	5.67%

# Gas Distribution

Gas Distribution	2022 AY	2021 AY
Yield rate	6.46%	6.63%
Debt in capital structure	43%	38%
Equity in capital structure	57%	62%
Cost of equity	8.80%	8.60%
Cost of debt	3.36%	3.42%
Beta	0.87	0.87
Single-stage DGM – Earnings Growth	10.14%	9.90%
Two-stage dividend growth model	9.13%	8.86%
Dividend yield	3.50%	3.30%
Short-term earnings growth est.	5.60%	5.90%

# Gas Transmission Pipeline

Gas Transmission	2022 AY	2021 AY
Yield rate	9.38%	9.82%
Debt in capital structure	37%	49%
Equity in capital structure	63%	51%
Cost of equity	12.90%	15.40%
Cost of debt	3.37%	4.03%
Beta	1.16	1.30
Single-stage DGM – Earnings Growth	16.40%	20.86%
Two-stage dividend growth model	14.40%	18.68%
Dividend yield	6.10%	8.20%
Short-term earnings growth est.	6.20%	6.50%

# Fluid Transportation Pipeline

Fluid Transportation	2022 AY	2021 AY
Yield rate	9.58%	10.13%
Debt in capital structure	40%	50%
Equity in capital structure	60%	50%
Cost of equity	13.10%	15.40%
Cost of debt	4.31%	4.86%
Beta	1.13	1.18
Single-stage DGM – Earnings Growth	14.65%	21.50%
Two-stage dividend growth model	17.01%	19.94%
Dividend yield	8.70%	13.20%
Short-term earnings growth est.	7.92%	6.62%

# Railroad

Railroad	2022 AY	2021 AY
Yield rate	8.81%	9.08%
Debt in capital structure	14%	15%
Equity in capital structure	86%	85%
Cost of equity	9.70%	10.20%
Cost of debt	3.37%	2.70%
Beta	1.05	1.10
Single-stage DGM – Earnings Growth	11.55%	11.75%
Two-stage dividend growth model	9.52%	9.65%
Dividend yield	1.40%	1.40%
Short-term earnings growth est.	9.50%	8.19%



# Questions?

sa.property@state.mn.us

# **Public Comments**



# Thank You!

#### **State Assessed Property Section**

sa.property@state.mn.us

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