

2023 Capitalization Rate Study Railroads

Final

Completed: April 28, 2023

Yield Capitalization Rate Conclusion Industry: Railroads 2023 Assessment Year

Capital Structure [1]		
Equity	80.00%	
Debt	20.00%	
Equity Cost of Capital		Weighting
Capital Asset Pricing Model - Ex Post [2]	11.67%	56%
Capital Asset Pricing Model - Ex Ante [2]	10.10%	14%
3 Stage Dividend Discount Model - Dividends [3]	7.27%	15%
3 Stage Dividend Discount Model - Earnings [3]	10.16%	<u>15%</u>
Weighted Average	10.56%	100%
Selected Cost of Equity	10.56%	_ _
		_
Debt Cost of Capital		Weighting
Aa - Mergent's - Avg. YTM of Aa Rated Corporate Bonds ^[4]	4.77%	33%
A - Mergent's - Avg. YTM of A Rated Corporate Bonds [4]	5.12%	33%
Baa - Mergent's - Avg. YTM of Baa Rated Corporate Bonds [4]	5.59%	33%
Ba - MTDOR High Yield Debt Study ^[5]	6.97%	0%
B - MTDOR High Yield Debt Study ^[5]	7.71%	<u>0%</u>
Weighted Average	5.16%	100%
Selected Cost of Debt	5.16%	_

Weighted Average Cost of Capital (WACC)

Source of	Capital		Marginal Tax	Pre-tax Cost of	After-tax Cos
Capital	Structure	Cost of Capital	Rate	Capital	of Capital
Equity	80.00%	10.56%		8.45%	8.45%
Debt	20.00%	5.16%	24.00%	1.03%	0.78%
WACC	100.00%			9.48%	9.23%
WACC (Round	led)				9.25%

Notes

- [1] From worksheet: Capital Structure
- [2] From worksheet: Capital Asset Pricing Model Summary
- [3] From worksheet: Yield Equity Summary
- [4] January 2023, Mergent Bond Record
- [5] Montana Department of Revenue High Yield Debt Study

Direct Capitalization Rate Conclusion Industry: Railroads 2023 Assessment Year

Capital	Structure	[1]
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Equity	80.00%
Debt	20.00%

Equity Capitalization Rate [2]

NOI After-tax	5.44%
GCF	7.59%

Debt Capitalization Rate [3]

Calculated Current Yield 4.27%

NOI After-tax Direct Capitalization Rate

Source of Capital	Capital Structure	Capitalization Rate	Marginal Tax Rate	Pre-tax Capitalization Rate	After-tax Capitalization Rate
Equity	80.00%	5.44%	rate	4.35%	4.35%
Debt	20.00%	4.27%	24.00%	0.85%	0.65%
Total	100.00%			5.21%	5.00%
Total (Rounded)					5.05%

GCF Direct Capitalization Rate

Source of Capital	Capital Structure	Capitalization Rate	Marginal Tax Rate	Pre-tax Capitalization Rate	After-tax Capitalization Rate
Equity	80.00%	7.59%		6.07%	6.07%
Debt	20.00%	4.27%	24.00%	0.85%	0.65%
WACC	100.00%			6.93%	6.72%
Total (Rounded)					6.75%

Notes:

- [1] From worksheet: Capital Structure
- [2] From worksheet: Direct Equity Summary
- [3] From worksheet: Calculated Current Yield

Selection of Guideline Companies Industry: Railroads 2023 Assessment Year

Screening Requirements:

The universe of companies is all companies listed in Value Line under the Railroad industry.

Companies were then selected using the following screening criteria:

- 1. Primarily provides rail, intermodal transportation, and rail-to-truck transload services.
- 2. Actively traded on an American exchange.
- 3. Headquartered / incorporated in the United States
- 4. No significant merger & acquisition activity during the year.

		Actively		Consider as			
	Primarily	Traded on an	Headquartered/	Potential	Not Engaged	Use as	
Company	provide rail	American	Incorporated in	Guideline	in Material	Guideline	
Ticker	services	Exchange	the U.S.	Company	M&A Activity	Company	Note
CNI			No				
СР			No				
CSX	Yes	Yes	Yes	Yes	Yes	Yes	
GATX	No						
GBX	No						
NSC	Yes	Yes	Yes	Yes	Yes	Yes	
RAIL	No						
TRN	No						
UNP	Yes	Yes	Yes	Yes	Yes	Yes	
USDP	No						
WAB	No						

Support for Capital Structure Industry: Railroads 2023 Assessment Year

(\$ and Shares Outstanding In Millions, Except Per Share Amounts)

Α	В	C	ט	E	F	G	Н	<u> </u>	J	K	L	IVI	N
					End of					Total			
					Year					Common,			
					Closing					Preferred, LT			
		Industry	Financial	Shares	Stock	MV Common	MV Preferred	MV Long Term	PV of Operating	Debt, & Op		%	% Debt &
Ticker	Company	Group	Strength	Outstanding	Price	Stock	Stock	Debt	Leases	Leases	% Common	Preferred	Op Leases
		Value Line	Value Line	10-K	Yahoo	ExF	10-K	10-K	10-K	G+H+I+J	G/K	H/K	(I+J)/K
							[Note 1]	[Note 2]					
CSX	CSX Corp.	RAILROAD	B++	2,063	30.98	63,900	0	16,135	557	80,592	79%	0%	21%
NSC	Norfolk Southern	RAILROAD	A+	228	246.42	56,203	0	13,846	410	70,459	80%	0%	20%
UNP	Union Pacific	RAILROAD	A++	612	207.07	126,808	0	28,126	1,631	156,565	81%	0%	19%
All Com	panies					246,910	0	58,107	2,598	307,615	80%	0%	20%
Avera	ige										80%	0%	20%
Media	an										80%	0%	20%
High											81%	0%	21%
Low											79%	0%	19%
Selecte	d										80%		20%

lotes	

[1] Market value of preferred stock assumed to equal book value

[2] Market value of debt is fair value of long term debt from 10-K notes

MCA 15-1-210, rationale for changes to guideline companies:

2023 - No changes to guideline companies

		<u>Median</u>	
Current Year	80%	0%	20%
Prior Year	81%	0%	19%
2 Years Prior	79%	0%	21%
3 Year Average	80%	0%	20%

Capital Asset Pricing Model (CAPM) Industry: Railroads 2023 Assessment Year

$k_e = R_f + \beta x ERP$

		Ex Post	Ex Ante
K _e =	Cost of Equity	11.67%	10.10%
$R_f =$	Risk Free Rate	4.14%	4.14%
β =	Beta	1.05	1.05
ERP =	Equity Risk Premium (R _m - R _f)	7.17%	5.68%
$R_m =$	Market Rate of Return	11.31%	9.82%

Risk Free Rate Measures (R_f):

The Value Line Investment Survey: Selection & Opinion ^[1]	
January 6, 2023 Page 1465	
Selected Yields on Taxable U.S. Treasury Securities as of 12/27/22	
10-year	3.84%
30-year	3.93%
Federal Reserve Statistical Release ^[2] U.S. government securities, Treasury constant maturities, Nominal, December 30, 2022	
10-year	3.88%
20-year	4.14%
30-year	3.97%
Risk Free Rate Selected	4.14%

Notes

- [1] "Value Line Selection & Opinion", Value Line (January 6, 2023)
- [2] https://www.federalreserve.gov/datadownload/Choose.aspx?rel=H.15

Ex Post - Equity Risk Premium Measures (ERP = Rm - Rf)

Kroll, 2023 Cost of Capital Navigator

		$\underline{R_{m}}$	$\underline{K_f}$	<u>ERP</u>
ERP "Historical" - Ex Post	Arithmetic Avg.	11.31%	4.14%	7.17%
ERP "Supply-side" - Ex Post	Arithmetic Avg.	10.49%	4.14%	6.35%
Ex Post Equity Risk Premium Selecte	d	11.31%	4.14%	7.17%

Capital Asset Pricing Model (CAPM) Industry: Railroads 2023 Assessment Year

$k_e = R_f + \beta x ERP$

DOR 3 Stage Dividend Growth Model, S & P 500, See Exhibit			
BOTTO Stage Biridelia Glowari Model, S. a. P. 600, See Exhibit	$R_{\rm m}$	$R_{\rm f}$	ERP
ERP - Ex Ante	8.81%	4.14%	4.67%
Kroll, 2023 Cost of Capital Navigator			
	R _m	R_f	ERP
ERP "Conditional" - Ex Ante	9.50%	3.50%	6.00%
Damodaran Implied ERP (Jan 1, 2023)			
	R_{m}	$R_{\rm f}$	<u>ERP</u>
Implied Premium - Ex Ante - Trailing 12 month, with adjusted payout	8.99%	3.88%	5.11%
Implied Premium - Ex Ante - Trailing 12 month cash yields	9.82%	3.88%	5.94%
Implied Premium - Ex Ante - Average CF yield last 10 years	9.73%	3.88%	5.85%
Implied Premium - Ex Ante - Net cash yield	9.56%	3.88%	5.68%
Implied Premium - Ex Ante - Normalized earnings and payout	8.71%	3.88%	4.83%
	<u>R</u>	$R_{\rm f}$	<u>ERP</u>
<u>Average</u>	9.30%		5.44%
Median	9.50%		5.68%
High	9.82%		6.00%
Low	8.71%		4.67%
Ex Ante Equity Risk Premium Selected	9.82%	4.14%	5.68%

Support for Beta Selection in CAPM Industry: Railroads 2023 Assessment Year

Α	В	С	D	E
		Industry	Financial	
Ticker	Company	Group	Strength	Beta
		Value Line	Value Line	Value Line
CSX	CSX Corp.	RAILROAD	B++	1.05
NSC	Norfolk Southern	RAILROAD	A+	1.05
UNP	Union Pacific	RAILROAD	A++	1.05
Average				1.05
Median				1.05
High				1.05
Low				1.05
Selected				1.05

Inflation & Real Growth Industry: Railroads 2023 Assessment Year

				Nominal	Growth
Α	В	С	D	E	F
Source Description	Inflation (CPI)	Real Growth (GDP)	Nominal Growth	Low	High
Livingston Survey ^[1]	2.55%	1.97%	4.52%		
Survey of Professional Forecasters ^[2]	2.44%	1.96%	4.40%		
Congressional Budget Office ^[3]	2.30%	1.80%	4.10%		
Average	2.43%	1.91%	4.34%		
Median	2.44%	1.96%	4.40%		
High	2.55%	1.97%	4.52%		
Low	2.30%	1.80%	4.10%		
Selected	2.45%	2.00%	4.45%	4.10%	4.52%

Inflationary Trend	Inflationary Trend Factors											
Year	Year Dec. CPI-U Index		Dec. to Dec. Conversion Factor	Annual Avg. CPI-U Index	Percent Change From Previous	Annual Conversion Factor						
	Note [5]	Note [6]	Note [7]	Note [5]	Note [6]	Note [7]						
2011	225.672	2.9%	1.3152	224.939	3.1%	1.3010						
2012	229.601	1.7%	1.2927	229.594	2.0%	1.2747						
2013	233.049	1.5%	1.2735	232.957	1.4%	1.2563						
2014	234.812	0.8%	1.2640	236.736	1.6%	1.2362						
2015	236.525	0.7%	1.2548	237.017	0.1%	1.2347						
2016	241.432	2.0%	1.2293	240.007	1.2%	1.2194						
2017	246.524	2.1%	1.2039	245.120	2.1%	1.1939						
2018	251.233	1.9%	1.1814	251.107	2.4%	1.1655						
2019	256.974	2.2%	1.1550	255.657	1.8%	1.1447						
2020	260.474	1.3%	1.1394	258.811	1.2%	1.1308						
2021	278.802	6.6%	1.0645	270.970	4.5%	1.0800						
2022	296.797	6.1%	1.0000	292.655	7.4%	1.0000						

<u>Notes</u>

[1] Federal Reserve Bank of Philadelphia The Livingston Survey December 16, 2023 Table 3 Inflation Rate and Real GDP mean

https://www.philadelphiafed.org/research-and-data/real-time-center/livingston-survey

[2] Federal Reserve Bank of Philadelphia Survey of Professional Forecasters February 10, 2023 Table 8 and Table 9 Average over next 10-Year mean

https://www.philadelphiafed.org/surveys-and-data/real-time-data-research/survey-of-professional-forecasters

[3] The Budget and Economic Outlook: 2023 To 2033, Table B-1

https://www.cbo.gov/about/products/budget-economic-data#4

[5] Historical Consumer Price Index for All Urban Consumers (CPI-U): U.S. city average, all items, index averages (1982-84=100, unless otherwise noted)

https://www.bls.gov/cpi/tables/supplemental-files/historical-cpi-u-202212.pdf

[6] (Row year - Previous Year) / Row Year

[7] Most current year / Row year

3 Stage Dividend Discount Model (DDM) Industry: Railroads 2023 Assessment Year

 $k_e = (D_1 / P_0) + g$

k_e = Cost of Equity

D₁ = Expected Dividend

P₀ = Current Price Per Share

g = Sustainable Long-Term Growth

Α	В	С	D	Е	F	G	Н	
		2022 2023 Est			Sustainable	Sustainable	Cost of Equity	Cost of Equity
		Year End Stock	Div'ds Decl'd	Expected Equity	Long-Term	Long-Term	Dividend	Earnings
Ticker	Company	Price	per sh	Payout Yield	Growth Rate [1]	Growth Rate [1]	Growth	Growth
		Yahoo	Value Line	D/C	Dividends	Earnings	E+F	E+G
		P ₀	D ₁	D ₁ /P ₀	g	g	k _e	k _e
CSX	CSX Corp.	30.98	0.44	1.42%	6.39%	7.10%	7.81%	8.52%
NSC	Norfolk Southern	246.42	5.40	2.19%	4.62%	8.25%	6.81%	10.44%
UNP	Union Pacific	207.07	5.60	2.70%	4.49%	8.82%	7.19%	11.52%
Average	е						7.27%	10.16%
Median							7.19%	10.44%
High							7.81%	11.52%
Low							6.81%	8.52%
Selected							7.27%	10.16%

Notes Implied Sustainable LTG: 5.17% 8.06%

[1] From worksheet: DDM Sustainable Long-Term Growth

Support for DDM - Short Term Growth Rate Calculations Industry: Railroads 2023 Assessment Year

Α	В	C D		E	F	G
		End of Year Div'ds Decl'd		Expected	Div'ds Decl'd	
		Closing Stock	per sh	Dividend	per sh	Short-Term
Ticker	Company	Price	2023 Est	Yield	2025-2027 Est	Growth Rate
		Yahoo	Value Line	D/C	Value Line	Note [1]
CSX	CSX Corp.	30.98	0.44	1.42%	0.60	10.89%
NSC	Norfolk Southern	246.42	5.40	2.19%	6.25	4.99%
UNP	Union Pacific	207.07	5.60	2.70%	6.40	4.55%

Α	В	С	D	E
		Earnings per		Short-Term
Ticker	Company	share 2023 Est	share 2025-2027 Est	Growth Rate
		Value Line	Value Line	Note [1]
CSX	CSX Corp.	1.75	2.50	12.62%
NSC	Norfolk Southern	13.10	19.00	13.20%
UNP	Union Pacific	10.30	15.00	13.35%

<u>Notes</u>

[1] 4 year compound annual growth rate (CAGR) - 3 periods

Support for DDM - Sustainable Long Term Growth Industry: Railroads 2023 Assessment Year

Dividend	Dividend Growth Rate St								Stage 1				
Ticker	Company	Year End Stock Price	Expected Short-Term Dividend Growth Rate	Expected Long-Term Growth Rate	Expected Dividend Yield		Implied Sustainable Long-Term Growth Rate (g)	Initial Investment	D_1	D_2	D_3	D₄	D_{5}
		Yahoo	Note [1]	Note [2]	D ₁ /P ₀	Ke = IRR of D ₁ :D ₅₀₀	g = IRR - Div. Yield			_	-	-	
CSX NSC UNP	CSX Corp. Norfolk Southern Union Pacific	30.98 246.42 207.07	10.89% 4.99% 4.55%	4.45% 4.45% 4.45%	1.42% 2.19% 2.70%	7.81% 6.81% 7.19%	6.39% 4.62% 4.49%	(30.98) (246.42) (207.07)	5.40	0.49 5.67 5.85	0.54 5.95 6.12	0.60 6.25 6.40	0.67 6.56 6.69

Earnings	Earnings Growth Rate S								Stage 1				
Ticker	Company	Year End Stock Price	Expected Short-Term Earnings Growth Rate	Expected Long-Term Growth Rate	Expected Dividend Yield	Internal Rate of Return	Implied Sustainable Long-Term Growth Rate (g)	Initial Investment	D ₁	D_2	D ₃	D_4	D ₅
		Yahoo	Note [1]	Note [2]	D ₁ /P ₀	$Ke = IRR \text{ of}$ $D_1:D_{500}$	g = IRR - Div. Yield						
CSX	CSX Corp.	30.98	12.62%	4.45%	1.42%	8.52%	7.10%	(30.98)	0.44	0.50	0.56	0.63	0.71
NSC	Norfolk Southern	246.42	13.20%	4.45%	2.19%	10.44%	8.25%	(246.42)	5.40	6.11	6.92	7.83	8.87
UNP	Union Pacific	207.07	13.35%	4.45%	2.70%	11.52%	8.82%	(207.07)	5.60	6.35	7.19	8.16	9.24

Notes
[1] From worksheet: DDM Short Term Growth Rate Calculations
[2] From worksheet: Inflation & Real Growth

Support for DDM - Sustainable Long Term Growth Industry: Railroads

2023 A	ssessment	rear			
					Stage

Dividend	vidend Stage 2												Stage 3	Stage 3				
Ticker	D ₆	D ₇	D ₈	D_9	D ₁₀	D ₁₁	D ₁₂	D ₁₃	D ₁₄	D ₁₅	D ₁₆	D ₁₇	D ₁₈	D ₁₉	D ₂₀	D ₂₁	D ₂₂	D ₅₀₀
CSX	0.73	0.81	0.90	0.99	1.09	1.21	1.34	1.47	1.63	1.80	1.99	2.20	2.43	2.68	2.96	3.09	3.23	3,526,300,444
NSC	6.89	7.23	7.59	7.96	8.36	8.77	9.21	9.66	10.14	10.65	11.17	11.73	12.31	12.92	13.56	14.16	14.79	16,153,940,184
UNP	7.00	7.31	7.65	7.99	8.36	8.74	9.13	9.55	9.98	10.44	10.91	11.41	11.92	12.47	13.03	13.61	14.22	15,527,502,810

Earnings	gs Stage 2												Stage 3					
Ticker	D ₆	D ₇	D_8	D ₉	D ₁₀	D ₁₁	D ₁₂	D ₁₃	D ₁₄	D ₁₅	D ₁₆	D ₁₇	D ₁₈	D ₁₉	D ₂₀	D ₂₁	D ₂₂	D ₅₀₀
	-6	-1		_ y	- 10	-11	-12	-13	- 14	-15	-16	-1/	-10	- 19	- 20	-21	- 22	- 500
CSX	0.79	0.89	1.00	1.12	1.25	1.40	1.57	1.76	1.98	2.21	2.48	2.78	3.12	3.49	3.92	4.09	4.27	4,666,080,542
NSC	9.98	11.24	12.66	14.26	16.06	18.08	20.36	22.93	25.82	29.08	32.74	36.87	41.52	46.76	52.66	55.00	57.45	62,737,836,600
UNP	10.42	11.75	13.25	14.94	16.85	19.00	21.42	24.15	27.23	30.71	34.62	39.04	44.02	49.64	55.97	58.46	61.06	66,680,267,610

Support for Yield Capitalization Rate - Debt Rating Industry: Railroads 2023 Assessment Year

Α	В	С	D	E	F
				Moody's	
		Industry	Financial	Long Term	Yield to
Ticker	Company	Group	Strength	Rating	Maturity
		Value Line	Value Line	Moodys.com	
CSX	CSX Corp.	RAILROAD	B++	Baa1	5.59%
NSC	Norfolk Southern	RAILROAD	A+	A3	5.12%
UNP	Union Pacific	RAILROAD	A++	Aa3	4.77%
Averaç	ge				5.16%
Media	n				5.12%
High					5.59%
Low					4.77%
Selected	k				5.16%

Support for Direct Capitalization - Equity Capitalization Rates Industry: Railroads 2023 Assessment Year

Α	В	С	D	Е	F	G	Н	ı	J	K	L	M	N	0	Р	Q	R
													Ke	.,			
		End of											Estimate -	Ke			
		Year					Ke	Ke					Cash	Estimate -	ł		
		Closing					Estimate -	Estimate -	VL Historic	VL Est		VL Est	Flow	Cash		Book	
		Stock	VL Historic		VL Historic	VL Est P/E	Earnings	Earnings	Cash Flow	Cash Flow	VL Historic	P/CF	(Hist.	Flow (Est.	Market Value	Value	
Ticker	Company	Price	EPS	VL Est EPS	P/E Ratio	Ratio	(Hist. P/E)	(Est. P/E)	Per Share	Per Share	P/CF Ratio	Ratio	P/CF)	P/CF)	of Equity	of Equity	MTBR
		Yahoo	Value Line	Value Line	C/D	C/E	1/F	1/G	Value Line	Value Line	C/J	C/K	1/L	1/M	Price x Shrs	Value Line	P/Q
CSX	CSX Corp.	30.98	1.91	1.70	16.22	18.22	6.17%	5.49%	2.24	2.70	13.83	11.47	7.23%	8.72%	63,900	13,490	4.74
NSC	Norfolk Southern	246.42	13.90	12.85	17.73	19.18	5.64%	5.21%	17.43	19.50	14.14	12.64	7.07%	7.91%	56,203	13,641	4.12
UNP	Union Pacific	207.07	11.36	10.30	18.23	20.10	5.49%	4.97%	13.67	15.30	15.15	13.53	6.60%	7.39%	126,808	14,161	8.95
Averag	9				17.39	19.17	5.76%	5.23%	_		14.37	12.55	6.97%	8.01%	_		5.94
Median					17.73	19.18	5.64%	5.21%			14.14	12.64	7.07%	7.91%			4.74
High					18.23	20.10	6.17%	5.49%			15.15	13.53	7.23%	8.72%			8.95
Low					16.22	18.22	5.49%	4.97%			13.83	11.47	6.60%	7.39%			4.12
Selected					18.	.38	5.4	4%			13.	18	7.5	59%			7.21

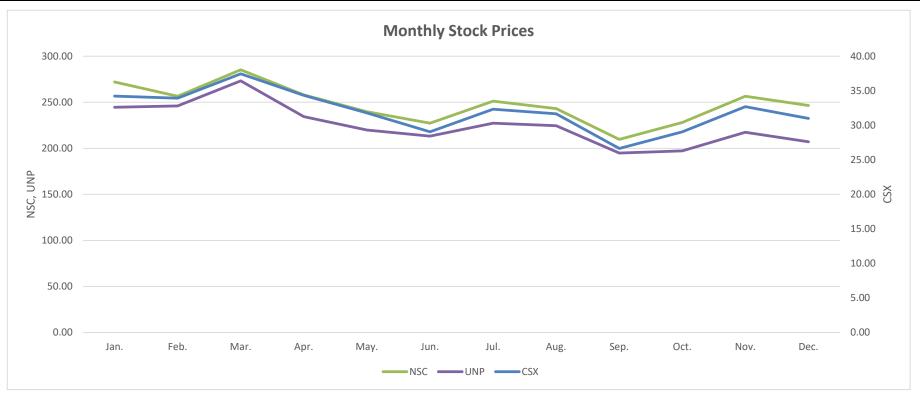
Support for Direct Capitalization - Debt Capitalization Rate Industry: Railroads 2023 Assessment Year

(\$ in Millions)

Α	В	C	D	E	F	G	Н	I	J
Ticker	Company	Current Year Interest Exp.	Previous Year MV LT Debt	Previous Year BV LT Debt	Current Year MV LT Debt	Current Year BV LT Debt	Average MV LT Debt	Current Yield	MTBR
	Source	10-K	10-K	10-K	10-K	10-K	(D+F)/2	(C/H)	(F/G)
CSX	CSX Corp.	742	19,439	16,366	16,135	18,047	17,787	4.17%	0.89
NSC	Norfolk Southern	692	17,033	13,840	13,846	15,082	15,440	4.48%	0.92
UNP	Union Pacific	1,271	32,929	29,729	28,126	33,326	30,528	4.16%	0.84
All Com	panies	2,705			58,107	66,455	63,754	4.24%	0.87
Averag	је							4.27%	0.89
Media	n							4.17%	0.89
High								4.48%	0.92
Low								4.16%	0.84
Selected	I							4.27%	0.89

Support of Stock Price - From YAHOO Finance Industry: Railroads 2023 Assessment Year

		End of Period Closing Stock Price														
1	2	3	3 4 5 6 7 8 9 10 11 12 13													
Α	В	С	D	E	F	G	Н	I	J	K	L	M	N			
Ticker	Company	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.			
CSX	CSX Corp.	34.22	33.91	37.45	34.34	31.79	29.06	32.33	31.65	26.64	29.06	32.69	30.98			
NSC	Norfolk Southern	271.99	256.52	285.22	257.88	239.66	227.29	251.17	243.13	209.65	228.07	256.50	246.42			
UNP	Union Pacific	244.55	245.95	273.21	234.29	219.78	213.28	227.30	224.51	194.82	197.14	217.43	207.07			



Maintenance Capital Expenditures Estimate Based on Guideline Companies Industry: Railroads 2023 Assessment Year

(\$ In Millions)

Α	В	С	D	E	F	G	Н	ı	J	K	L
							Average				
					Average	Depreciation	Life of			Replacement	RC as % of
Ticker	Company	Inflation	PP&E, Gross	PP&E, Gross	PP&E	Expense	Assets			Cost (RC)	Depreciation
			Current Year	Previous Year		Current Year		Note [1]	Note [1]	Note [1]	
		MTDOR (CPI)	10-K, Notes	10-K, Notes	(D+E)/2	10-K	F/G	C*H	1/(1+C)^H	G*I/(1-J)	K/G
CSX	CSX Corp.	2.45%	48,105	46,505	47,305	1,500	32	0.77	0.47	2,171	144.72%
NSC	Norfolk Southern	2.45%	44,748	43,684	44,216	1,221	36	0.89	0.42	1,856	151.98%
UNP	Union Pacific	2.45%	79,255	77,275	78,265	2,246	35	0.85	0.43	3,365	149.84%
Averag	je										148.85%
Media	า										149.84%
High											151.98%
Low											144.72%

148.85%

Notes:

Selected

[1] Cornell, B. & Gerger, R. (2017). Estimating Terminal Values with Inflation: The Inputs Matter-It Is Not a Formulaic Exercise. Business Valuation Review, Volume 36, Number 4, 117-123.