

COST OF CAPITAL STUDY

YIELD CAPITALIZATION
2017 ASSESSMENT YEAR

APPENDIX C

FREIGHT AIRLINES

QUITY RATE							9.25%	
CAPITAL ASSET PRICING MODEL								PAGE
CAPM Ex Ante			8.51%					6
DIVIDEND GROWTH MODELS								
Value Line, based on Dividends	Growth		9.60%					7
Value Line, based on Earnings (Growth		9.60%					8
Value Line, based on Return on	Equity		10.00%					9
					RANGE		8.5125% - 10%	
DEBT RATE							4.25%	10
COST OF SECURED DEBT (LEAS	SE) RATE						4.00%	10
COST OF SECURED DEBT (LEAS	SE) RATE				Tax Shield		4.00%	10
	5E) RATE	×	9.25%	=	Tax Shield		4.00% 6.48%	10
MARKET CAPITAL STRUCTURE		x x				=		
MARKET CAPITAL STRUCTURE Equity	70%		4.00%	=	62.00%		6.48%	3

WEIGHTED AVERAGE COST OF CAPITAL

7.24%

SUPPORT FOR GUIDELINE COMPANIES

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

Capital Structure at Book Value

Company	Ticker	Beta	Fin'l Strength			Earnings Predict	P/E Ratio	Div'd Yield	Common Stock	%	Preferred Stock	%	Long Term Debt	%	Total Debt & Equity	%
UPS	UPS	0.85	Α	100	80	75	19.4	2.88%	2,890,800,000	18.9%	-	0.0%	12,394,000,000	81.1%	15,284,800,000	100.0%
Fed Ex	FDX	1.10	A++	80	65	60	15.6	0.86%	13,783,143,200	49.9%	•	0.0%	13,838,000,000	50.1%	27,621,143,200	100.0%
Atlas Air	AAWW	1.35	B+	20	25	55	11.2	-	1,500,000,000	47.4%	-	0.0%	1,667,000,000	52.6%	3,167,000,000	100.0%
CH Robinson	CHRW	0.80	Α	75	40	75	19.5	2.48%	1,256,700,000	71.5%	•	0.0%	500,000,000	28.5%	1,756,700,000	100.0%
Expeditors Int'l	EXPD	0.95	A+	70	25	80	21.2	1.51%	1,911,600,000	100.0%	-	0.0%	-	-	1,911,600,000	100.0%
Air Transport Services	ATSG	1.35	В	20	55	20	-	-	347,649,600	44.7%	-	0.0%	429,415,000	55.3%	777,064,600	100.0%
	Mean	1.07	B+	61	48	61	17.4	1.93%	3,614,982,133	55.4%		0.0%	4,804,735,833	53.5%		
Weighte	d Mean								21,689,892,800	42.9%	-	0.00%	28,828,415,000	57.1%	50,518,307,800	
	Median	1.03					19.4	2.00%		48.6%		0.0%		52.6%		
Harmon	ic Mean	1.02						1.55%		42.7%		0.0%		47.84%		
	Max	1.35						2.88%		100.0%		0.0%		81.1%		
	Min	0.80						0.86%		18.9%		0.0%		28.5%		
	Sav	1.05								45%		0.0%		55%	100%	100%

SUPPORT FOR CAPITAL STRUCTURE MARKET VALUE

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

Capital Structure at Market Value

Company	Ticker	Stock Price	Common Shares	Common Stock	%	Preferred Stock	%	Operating Lease	%	Long Term Debt	%	Total Debt & Equity
UPS	UPS	114.64	876,000,000	100,424,640,000	80.2%	-	0.0%	7,712,000,158	6.2%	17,134,000,000	13.7%	125,270,640,158
Fed Ex	FDX	186.20	265,520,000	49,439,824,000	55.7%	-	0.0%	24,948,598,761	28.1%	14,300,000,000	16.1%	88,688,422,761
Atlas Air	AAWW	52.15	25,000,000	1,303,750,000	25.6%	•	0.0%	1,817,906,491	35.6%	1,981,074,000	38.8%	5,102,730,491
CH Robinson	CHRW	73.26	142,000,000	10,402,920,000	92.3%	-	0.0%	341,907,942	3.0%	528,000,000	4.7%	11,272,827,942
Expeditors Int'l	EXPD	52.96	177,000,000	9,373,920,000	93.1%	-	0.0%	693,381,043	6.9%	-	-	10,067,301,043
Air Transport Services Group	ATSG	15.96	64,860,000	1,035,165,600	65.0%	-	0.0%	97,886,185	6.1%	458,900,000	28.8%	1,591,951,785
			Mean Weighted Mean Median Harmonic Mean Max Min	171,980,219,600	68.6% 71.1% 72.6% 56.3% 93.1% 25.6%		0.0% 0.00% 0.00% 0.00%	35,611,680,581	14.3% 14.72% 6.52% 6.9% 35.6% 3.0%	34,401,974,000	20.4% 14.2% 16.1% 12.2% 38.8% 4.7%	241,993,874,181

Source: Target 70% 0% 15% 15% 100%

Stock Price: Yahoo

Market Value Debt: Bond Analysis

SUPPORT FOR MARKET MULTIPLES

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

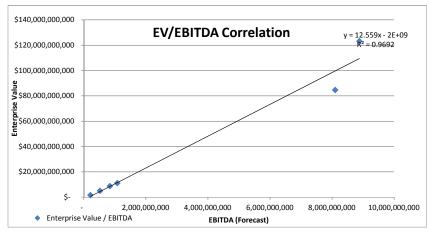
Company	Ticker	Stock Price	Revenues	Multiple	Cash Flow	Multiple	Earnings	Multiple	Book Value	Multiple
UPS	UPS	114.64	69.55	1.6	8.36	13.7	5.75	19.9	3.30	34.7
Fed Ex	FDX	186.20	189.68	1.0	21.27	8.8	10.80	17.2	51.91	3.6
Atlas Air	AAWW	52.15	73.00	0.7	7.25	7.2	1.45	NMF	60.00	0.87
CH Robinson	CHRW	73.26	92.55	0.8	4.15	17.7	3.59	20.4	8.85	8.28
Expeditors Int'l	EXPD	52.96	36.25	1.5	2.65	20.0	2.35	22.5	10.80	4.90
Air Transport Services Gr	ATSG	15.96	9.66	1.65	2.58	6.2	0.60	26.6	5.36	3.0
·	·	Mean		1.2		12.2		21.3		9.2
		Median		1.2		11.2		20.4		4.2
	Harm	onic Mean		1.1		10.1		20.9		2.8
		Max		1.7		20.0		26.6		34.7
		Min		0.71		6.2		17.2		0.87
		Std Dev		0.43		5.76		3.49		12.74
Co	efficient o	f Variation		0.36		0.47		0.16		1.38
	Per	centile .25		0.8		7.6		19.9		3.1
	Per	centile .75		1.6		16.7		22.5		7.4
		Say		1.20		12.00		20.00		NMF

ENTERPRISE VALUE MULTIPLES

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

Guideline Companies	Ticker	EV+OL	EBITDA + OL	EV / EBITDA	Annual Change Rate	EBITDA	EV / EBITDA	Revenue	EV / Sales	CF	Debt Service	EV / CF
			historic	historic	(Growth)	forecast	forecast	forecast				
UPS	UPS	\$ 123,151,640,158	8,377,000,000	14.70	6.0%	8,879,620,000	13.87	64,010,000,000	1.92	7,323,360,000	728,195,000	15.30
Fed Ex	FDX	\$ 84,707,422,761	8,102,000,000	10.46	0.00%	8,102,000,000	10.46	61,003,000,000	1.39	5,647,610,400	607,750,000	13.54
Atlas Air	AAWW	\$ 5,102,730,491	483,110,000	10.56	8.00%	521,758,800	9.78	2,000,425,000	2.55	181,250,000	84,195,645	19.22
CH Robinson	CHRW	\$ 11,110,827,942	968,170,000	11.48	11.50%	1,079,509,550	10.29	13,503,000,000	0.82	589,300,000	22,440,000	18.16
Expeditors Int'l	EXPD	\$ 8,778,301,043	779,294,000	11.26	8.00%	841,637,520	10.43	6,728,750,000	1.30	469,050,000	-	18.72
Air Transport Services Group	ATSG	\$ 1,591,951,785	215,375,000	7.39	0.00%	215,375,000	7.39	-		167,338,800	19,503,250	8.52
	Mean			10.98	5.58%		10.37		1.60			15.58
	Median			10.91	7.00%		10.36		1.39			16.73
Harm	onic Mean			10.53	#NUM!		10.03		1.38			14.38
	Max			14.70	11.50%		13.87		2.55			19.22
	Min			7.39	0.00%		7.39		0.82			8.52
	Std Dev			2.35	4.67%		2.07		0.66			4.10
Coefficient of	FVariation			0.21	0.84		0.20		0.41			0.26
	Say			11.00	6.50%		10.00		1.40			16.00

EBITDA from Yahoo February 2016, as of 12-31-15



Forecast EV/EBITDA By Rank

Guideline Companies	forecast	
Air Transport Services Group	7.39	9.15 Low Average
Atlas Air	9.78	9.8 Low Median
CH Robinson	10.29	9.5 Say
Expeditors Int'l	10.43	11.58 High Average
Fed Ex	10.46	10.5 High Median
UPS	13.87	11.0 Say

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT CAPITAL ASSET PRICING MODEL

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

Ex Ante $Ke = Rf + \beta (Rp)$

(e =	Cost of Equity					8.51%
_	cost or Equity					to page 1
		Rm =	rate of return	8.25%		to page .
		Rf =	risk free rate	3.00%		
		Rp =	risk premium	5.25%		
		B =	Beta	1.05		page 2
p =	Risk Premium					5.25%
	Shannon Pratt	and Bogor	Grahowski		3.5 - 6%	to above
	Silaimon Fract			and Examples, Fifth	3.3 - 0 /0	
		Edition, 20				
	Dr. Aswath Dan				5.69%	chart page 14
			es.stern.nyu.edu/~a lied Premium	adamodar/	5.14%	adjusted for Rf
		2010 1111	ilea i reilliaili			
	John Graham a	nd Campbe	ell Harvey		5.70%	10 year expected real retu
				Business Outlook	2.23%	Rf rate used in survey
		4th Qtr 20	016		4.93%	adjusted for Rf
tf =	Risk Free Rate	•				3.00% to above
	US Department	of the Tre	asury			to above
		Long Term	n (20 years) US Ti	reasury Bond Yield	2.79%	
	as of 12-30-16					
		stment Su	rvey, Selected Y	ields January 6, 201	7, page 3197	
	as of 12-28-16	IIS Treasu	ıry Securities year	end data		
		US Treasu	iry Securities year	5 year	2.00%	
				10 year	2.51%	
				30 year	3.09%	
		e Statistica	il Release (http	30 year 30 year Zero ://www.federalreser	3.09% 3.17% eve.gov/Release	s/H15/Current/)
	Federal Reserve as of 12-30-16		al Release (http Constant Maturitie	30 year Zero ://www.federalreser	3.17% rve.gov/Release 1.93%	s/H15/Current/)
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				30 year Zero ://www.federalreser ss 5 year 10 year 20 year	3.17% rve.gov/Release 1.93% 2.45% 2.79%	1.97% 2.07%
				30 year Zero ://www.federalreser :5 5 year 10 year 20 year 30 year 20 year 20 year	3.17% ve.gov/Release 1.93% 2.45% 2.79% 3.06% 0.82%	1.97%
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nflat	as of 12-30-16	Treasury (Constant Maturitie	30 year Zero ://www.federalreser :5 5 year 10 year 20 year 30 year 20 year 20 year	3.17% ve.gov/Release 1.93% 2.45% 2.79% 3.06% 0.82% 0.99% 17, page 1500	1.97% 2.07% TIPS inflation indication 2.00 %
nflat	as of 12-30-16	Treasury (Constant Maturitie rvey, Economic Price Index Annu	30 year Zero ://www.federalreser :5 5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS Series January 6, 20:	3.17% ve.gov/Release 1.93% 2.45% 2.79% 3.06% 0.82% 0.99% 17, page 1500	1.97% 2.07% TIPS inflation indication 2.00% to appraisal template
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nflat	as of 12-30-16 tion Value Line Inve	Treasury (sstment Su Consumer Bank of F The Livin	rvey, Economic Price Index Annu Philadelphia gston Survey, D	30 year Zero ://www.federalreser :5	3.17% ve.gov/Release: 1.93% 2.45% 2.79% 3.06% 0.82% 0.99% 17, page 1500 1-2021	1.97% 2.07% TIPS inflation indication 2.00% to appraisal template 2.50% Table 3
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SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT DIVIDEND GROWTH MODEL

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

Based on Dividend Growth

$$K_e = (D_1 / P_o) + G_D$$

Ke = Cost of Equity
D1 = Expected Dividends
P0 = Current Stock Price

GD = Sustainable Growth -- Dividend

assumption Sustainable growth can not exceed inflation plus real GDP

Company	Ticker	Stock Price (Po)	Expected Dividend (D1)	Dividend Yield (D1/Po)	Dividend Growth (G)	K _e	Forecast Dividend Growth	K _e Forecast Growth	Sustainable Dividend Growth	K _e Sustainable Growth	Ke with Multi Stage Growth Adj
UPS	UPS	114.64	3.30	2.88%	5.77%	8.65%	9.17%	12.05%	3.80%	6.68%	9.63%
Fed Ex	FDX	186.20	1.60	0.86%	60.00%	60.86%	15.30%	16.16%	3.80%	4.66%	11.81%
Atlas Air	AAWW	52.15	0.00						3.80%		
CH Robinson	CHRW	73.26	1.82	2.48%	4.60%	7.08%	7.88%	10.36%	3.80%	6.28%	8.62%
Expeditors Int'l	EXPD	52.96	0.80	1.51%	0.00%				3.80%	5.31%	9.24%
Air Transport Services Group	ATSG	15.96	0.00						3.80%		
			Mean	1.93%		25.53%		12.86%		5.73%	9.82%
			Median	2.00%		8.65%		12.05%		5.80%	9.44%
		Har	monic Mean	1.55%		10.98%		12.43%		5.62%	9.69%
			Max	2.88%		60.86%		16.16%		6.68%	11.81%
			Min	0.86%		7.08%		10.36%		4.66%	8.62%

Source: Value Line Projections 13-15 to 20-22

Say

9.60% to page 1

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT DIVIDEND GROWTH MODEL

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

Based on Earnings Growth

 $K_e = (D_1 / P_o) + G$

Ke = Cost of Equity
D1 = Expected Dividends

P0 = Current Stock Price

G = Sustainable Growth -- Earnings

assumption Sustainable growth can not exceed inflation plus real GDP

Company	Ticker	Stock Price	Expected Earnings	Yield (D1/Po)	Earnings Growth (G)	K _e	Forecast Earnings	K _e Forecast	Sustainable Earnings	K _e Sustainable	Ke with Multi Stage
		(Po)	(D1)		` '		Growth	Growth	Growth	Growth	Growth Adj
UPS	UPS	114.64	5.90	5.15%	2.61%	7.76%	11.66%	16.80%	3.80%	8.95%	10.86%
Fed Ex	FDX	186.20	11.95	6.42%	10.65%	17.07%	13.73%	20.15%	3.80%	10.22%	9.97%
Atlas Air	AAWW	52.15	4.65	8.92%	NMF	NMF	10.42%	19.34%	3.80%	12.72%	8.91%
CH Robinson	CHRW	73.26	3.75	5.12%	4.46%	9.58%	9.28%	14.40%	3.80%	8.92%	9.28%
Expeditors Int'l	EXPD	52.96	2.50	4.72%	6.38%	11.10%	11.14%	15.86%	3.80%	8.52%	9.42%
Air Transport Services Group	ATSG	15.96	0.00						3.80%		
			Mean	6.06%		11.38%		17.31%		9.86%	9.69%
			Median	5.15%		10.34%		16.80%		8.95%	9.42%
		Haı	monic Mean	5.75%		10.47%		17.04%		9.66%	9.64%
			Max	8.92%		17.07%		20.15%		12.72%	10.86%
			Min	4.72%		7.76%		14.40%		8.52%	8.91%

Source: Value Line Projections 13-15 to 20-22

Say 9.60%

to page 1

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT DIVIDEND GROWTH MODEL

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

Based on Return on Equity

Ke = (D1 / Po) + G

Ke = Cost of Equity
 D1 = Expected Dividends
 E1 = Expected Earnings
 Po = Current Price
 G = Sustainable Growth

b = Retained Earnings % = (1 - Payout Ratio)

ROE = Return on Equity = (E1 / Po)

Company	Ticker	Stock Price (Po)	Expected Dividend (D1)	Expected Earnings (E1)	Dividend Yield (D1/Po)	Retained Earnings (b)	ROE (E1/Po)	Growth (b*ROE)	K _e Dividends	K _e Earnings
UPS	UPS	114.64	3.30	5.90	2.88%	42.0%	5.15%	2.16%	5.04%	7.31%
Fed Ex	FDX	186.20	1.60	11.95	0.86%	87.0%	6.42%	5.58%	6.44%	12.00%
Atlas Air	AAWW	52.15	0.00	4.65		100.0%	8.92%	8.92%		17.83%
CH Robinson	CHRW	73.26	1.82	3.75	2.48%	51.0%	5.12%	2.61%	5.09%	7.73%
Expeditors Int'l	EXPD	52.96	0.80	2.50	1.51%	66.0%	4.72%	3.12%	4.63%	7.84%
Air Transport Services Grou	ATSG	15.96	0.00	0.00		100.0%	0.00%	0.00%		
								Mean	5.30%	10.54%
								Median	5.07%	7.84%
							Har	monic Mean	5.22%	9.38%
								Max	6.44%	17.83%
								Min	4.63%	7.31%

SUPPORT FOR DEBT RATING AND DEBT YIELD RATE

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

Company	Ticker	Mergent's Ratings	S&P Ratings
UPS	UPS	Aa3	A+
Fed Ex	FDX	Baa1	BBB
Atlas Air	AAWW	-	-
CH Robinson	CHRW	-	-
Expeditors Int'l	EXPD	-	-
Air Transport Services Group	ATSG	-	-
Overall Average Debt Rating		A2	A-

Mergent's Bond Record January 2016, page 208

Corporate	Aaa	Aa	Α	Baa
October	3.51%	3.61%	3.78%	4.38%
November	3.86%	3.94%	4.11%	4.71%
December	4.06%	4.12%	4.28%	4.83%
4th Qtr Average	3.81%	3.89%	4.06%	4.64%
2016 Average	3.67%	3.75%	3.96%	4.72%
Public Utilities		Aa	Α	Baa
October		3.59%	3.77%	4.34%
November		3.91%	4.08%	4.64%
December		4.11%	4.27%	4.79%
4th Qtr Average		3.87%	4.04%	4.59%
2016 Average		3.73%	3.93%	4.68%
Industrials	Aaa	Aa	Α	Baa
October	3.51%	3.63%	3.79%	4.40%
November	3.86%	3.97%	4.14%	4.77%
December	4.06%	4.13%	4.29%	4.85%
4th Qtr Average	3.81%	3.91%	4.07%	4.67%
2016 Average	3.67%	3.77%	3.98%	4.75%

Debt Yield Rate 4.25%

Cost of Secured Debt (Lease)

Based on 4th Quarter Aa rate

4.00%

to page 1

DATA INPUT

WASHINGTON STATE DEPARTMENT OF REVENUE 2017 ASSESSMENT YEAR FREIGHT AIRLINES

Instructions: Data entered on this page will flow to the applicable worksheets.

Current Year (2016)

Guideline Companie	s	Stock Price	Beta	Revenues	Cash Flow	Earnings	Dividends	Bk Value	Common	Long-Term Debt
Name	Ticker	(YE Close)	Levered	Per Share	Per Share	Per Share	Per Share	Stock	Shares	
UPS	UPS	114.64	0.85	69.55	8.36	5.75	3.12	3.30	876,000,000	11,500,000,000
Fed Ex	FDX	186.20	1.10	189.68	21.27	10.80	1.00	51.91	265,520,000	13,838,000,000
Atlas Air	AAWW	52.15	1.35	73.00	7.25	1.45	-	60.00	25,000,000	1,700,000,000
CH Robinson	CHRW	73.26	0.80	92.55	4.15	3.59	1.74	8.85	142,000,000	500,000,000
Expeditors Int'l	EXPD	52.96	0.95	36.25	2.65	2.35	0.80	10.80	177,000,000	-
Air Transport Services Group	ATSG	15.96	1.35	9.66	2.58	0.60	-	5.36	64,860,000	319,800,000

Value Line February, 2017

Yahoo

Value Line

Value Line

Value Line Value Line

Value Line Value Line Value Line

Value Line

The harmonic mean is the preferable method for averaging multiples, such as the price/earning ratio, in which price is in the numerator. If these ratios are averaged using an arithmetic mean (a common error high data points are given greater weights than low data points.

The harmonic mean, on the other hand, gives equal weight to each data point

Projected (Next Year) % Return on Shareholders' Trailing P/E **Average Annual** Operating **Income** Cash Bk Shareholders' **Dividends Common Shares** Revenues **Earnings Dividend Yield Tax Rate** Flow Value **Equity Ratio** Margin Equity ٧L VL ٧L ٧L ٧L ٧L ٧L ٧L ٧L ٧L ٧L 17.0% 34.5% 2,890,000,000 18.90 74.00 5.90 865,000,000 2.90% 199.3% 8.65 3.30 3.70 35.5% 13,784,000,000 265,000,000 16.70 0.60% 15.2% 21.9% 230.20 23.60 11.95 1.60 60.00 37.0% 1,500,000,000 NMF 12.5% 2.5% 81.65 24,500,000 10.40 4.65 63.25 1,255,000,000 37.5% 7.0% 21.50 41.0% 96.45 4.30 3.75 9.45 140,000,000 2.40% 1.82 35.0% 1,915,000,000 12.0% 21.5% 175,000,000 23.40 38.45 2.50 1.60% 2.80 0.80 12.30

10.5%

37.7%

37.0%

Value Line

347,500,000

r),

14.20

		Forecast Dividends % Change Forecast Earnings % Change													
Capital Spending per share	% Return on Shareholders' Equity	% Retained to Common Equity	All Dividends to Net Profits	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022
VL	VL	VL	VL	VL	VL	VL	VL	VL	VL	VL	VL	VL	VL	VL	VL
3.30	NMF	NMF	58.0%	7.5	7.5	7.5	7	8.5	7.50	11.5	7.5	7.5	10	9.5	9.5
19.00	20.0%	17.0%	13.0%	-	8	11.5	12.5	20.5	17.5	-	9	15	15.5	13.5	11
14.50	7.5%	7.5%	0.0%	-	-	-	-	-	-	10.5	6	0.5	3.5	15.5	15.5
0.65	39.5%	20.5%	49.0%	8.00	5	7.5	6	7	6.5	10.5	8	7	6.5	7.5	6.5
0.30	20.5%	13.5%	34.0%	11	10	8.5	9	7.5	7.5	11.5	7	6.5	10	10	8.5
				-	-	-	-	-	-	-	-	-	-	-	-

Forecast	Cash Flo	ow % Ch	Change Fore				Forecast Revenue % Change					Income	Balance Sheet		
2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022	Operating Income	Current Assets	PP & E Gross	
VL	VL	VL	VL	VL	VL	VL	VL	VL	VL	VL		M*	M*	M*	
8.5	6	6	7.5	8	8	6	4.5	5	5	5.5	6	5,467,000,000	13,849,000,000	43,674,000,000	
-	6	9	8	9.5	8	-	4.5	5	4	7.5	7	3,077,000,000	11,989,000,000	47,018,000,000	
10	9	4.5	6.5	10	12	8	7	5	6.5	5.5	7.5	168,000,000	358,000,000	4,110,000,000	
11	8.5	8	7.5	7	6	11.5	10	8.5	9	5	4.5	838,000,000	2,008,000,000	450,000,000	
10.5	6.5	6.5	9.5	9	7.5	8	4.5	5	8	6	5.5	670,000,000	2,219,000,000	943,000,000	
-	-	-	-	-	-	-	-	-	-	-	-	63,748,000	132,653,000	1,731,983,000	

			Cash Flow		Fair Value		Operating Lease
Intangibles (excl. GW)	Current Liabilities	Long Term Debt Less Current Maturities	•	Carrying Value Debt	Debt	Current Maturity Long Term Debt	Aircraft Rent
M*	M*	M*/10K	M*	10_K	10-K	10-K	10-K
1,758,000,000	11,730,000,000	12,394,000,000	2,224,000,000	16,075,000,000	17,134,000,000	3,681,000,000	686,000,000
-	8,008,000,000	13,838,000,000	2,631,000,000	13,867,000,000	14,300,000,000	29,000,000	2,394,000,000
76,000,000	565,000,000	1,667,000,000	169,000,000	1,901,307,000	1,981,074,000	184,748,000	146,110,000
168,000,000	1,846,000,000	500,000,000	75,000,000		528,000,000	740,000,000	55,170,000
-	930,000,000	-	47,000,000		-		62,294,000
45,586,000	155,785,000	429,415,000	140,002,000	458,700,000	458,900,000	29,306,000	11,625,000

2017 Multi Stage Dividend Growth Model for DGM-d8 Freight Airline Industry

United Parcel Se	ervice								
UPS		Growth	Payout			Terminal			
	Year	Rate	Ratio	Earnings	Dividends	Value			
	0			5.75	3.12		(114.64)	price =	114.64
2017	1	7.50%	54.26%	6.18	3.35		3.35		123.24
2018	2	7.50%	54.26%	6.64	3.61		3.61		132.48
2019	3	7.50%	54.26%	7.14	3.88		3.88		142.42
2020	4	7.00%	54.26%	7.64	4.15		4.15		152.39
2021	5	8.50%	54.26%	8.29	4.50		4.50		165.34
2022	6	7.50%	48.39%	8.91	4.31		4.31		177.74
2023	7	6.76%	48.39%	9.52	4.61		4.61		189.75
2024	8	6.02%	48.39%	10.09	4.88		4.88		201.18
2025	9	5.28%	48.39%	10.62	5.14		5.14		211.80
2026	10	4.54%	48.39%	11.11	5.37	221.42	226.79		221.42
2027	11+	3.80%	48.39%	11.53	5.58				
						K _e =	9.63%		

source: Valueline

FedEx FDX		Year	Growth Rate	Payout Ratio	Earnings	Dividends	Terminal Value			
		0			10.80	1.00		(186.20)	price =	186.20
	2017	1	0.00%	9.26%	10.80	1.00		1.00		186.20
	2018	2	8.00%	9.26%	11.66	1.08		1.08		201.10
	2019	3	11.50%	9.26%	13.01	1.20		1.20		224.22
	2020	4	12.50%	9.26%	14.63	1.35		1.35		252.25
	2021	5	20.50%	9.26%	17.63	1.63		1.63		303.96
	2022	6	17.50%	12.73%	20.72	2.64		2.64		357.15
	2023	7	14.76%	12.73%	23.77	3.03		3.03		409.87
	2024	8	12.02%	12.73%	26.63	3.39		3.39		459.14
	2025	9	9.28%	12.73%	29.10	3.70		3.70		501.74
	2026	10	6.54%	12.73%	31.01	3.95	534.56	538.50		534.56
	2027	11+	3.80%	12.73%	32.18	4.10				
							K _e =	11.81%		

CH Robinson CHRW	Year	Growth Rate	Payout Ratio	Earnings	Dividends	Terminal Value			
	0			3.59	1.74		(73.26)	price =	73.26
2017	1	8.00%	48.47%	3.88	1.88		1.88		79.12
2018	2	5.00%	48.47%	4.07	1.97		1.97		83.08
2019	3	7.50%	48.47%	4.38	2.12		2.12		89.31
2020	4	6.00%	48.47%	4.64	2.25		2.25		94.67
2021	5	7.00%	48.47%	4.96	2.41		2.41		101.29
2022	6	6.50%	48.00%	5.29	2.54		2.54		107.88
2023	7	5.96%	48.00%	5.60	2.69		2.69		114.31
2024	8	5.42%	48.00%	5.91	2.83		2.83		120.50
2025	9	4.88%	48.00%	6.19	2.97		2.97		126.38
2026	10	4.34%	48.00%	6.46	3.10	131.87	134.97		131.87
2027	11+	3.80%	48.00%	6.71	3.22				

source: Valueline

Exped	litors	Int'l
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EXPD			Growth	Payout			Terminal			
		Year	Rate	Ratio	Earnings	Dividends	Value			
		0			2.35	0.80		(52.96)	price =	52.96
	2017	1	11.00%	34.04%	2.61	0.89		0.89		58.79
	2018	2	10.00%	34.04%	2.87	0.98		0.98		64.66
	2019	3	8.50%	34.04%	3.11	1.06		1.06		70.16
	2020	4	9.00%	34.04%	3.39	1.16		1.16		76.48
	2021	5	7.50%	34.04%	3.65	1.24		1.24		82.21
	2022	6	7.50%	31.43%	3.92	1.23		1.23		88.38
	2023	7	6.76%	31.43%	4.19	1.32		1.32		94.35
	2024	8	6.02%	31.43%	4.44	1.40		1.40		100.03
	2025	9	5.28%	31.43%	4.67	1.47		1.47		105.31
	2026	10	4.54%	31.43%	4.89	1.54	110.09	111.63		110.09
	2027	11+	3.80%	31.43%	5.07	1.59				
							K _e =	9.24%		

2017 Multi Stage Dividend Growth Model for DGM-e9 Freight Airline Industry

United Parcel Se	rvice								
UPS		Growth	Payout			Terminal			
	Year	Rate	Ratio	Earnings	Dividends	Value			
	0			5.75	3.12		(114.64)	price =	114.64
2017	1	9.50%	54.26%	6.30	3.42		3.42		125.53
2018	2	7.50%	54.26%	6.77	3.67		3.67		134.95
2019	3	7.50%	54.26%	7.28	3.95		3.95		145.07
2020	4	10.00%	54.26%	8.00	4.34		4.34		159.57
2021	5	9.50%	54.26%	8.76	4.76		4.76		174.73
2022	6	9.50%	48.39%	9.60	4.64		4.64		191.33
2023	7	8.36%	48.39%	10.40	5.03		5.03		207.33
2024	8	7.22%	48.39%	11.15	5.40		5.40		222.30
2025	9	6.08%	48.39%	11.83	5.72		5.72		235.81
2026	10	4.94%	48.39%	12.41	6.01	247.46	253.47		247.46
2027	11+	3.80%	48.39%	12.88	6.23				
						K _e =	10.86%		

source: Valueline

FedEx FDX			Growth	Dayout			Terminal			
FDX				Payout						
		Year	Rate	Ratio	Earnings	Dividends	Value			
		0			10.80	1.00		(186.20)	price =	186.20
	2017	1	0.00%	9.26%	10.80	1.00		1.00		186.20
	2018	2	9.00%	9.26%	11.77	1.09		1.09		202.96
	2019	3	15.00%	9.26%	13.54	1.25		1.25		233.40
	2020	4	15.50%	9.26%	15.64	1.45		1.45		269.58
	2021	5	13.50%	9.26%	17.75	1.64		1.64		305.97
	2022	6	11.00%	12.73%	19.70	2.51		2.51		339.63
	2023	7	9.56%	12.73%	21.58	2.75		2.75		372.10
	2024	8	8.12%	12.73%	23.33	2.97		2.97		402.31
	2025	9	6.68%	12.73%	24.89	3.17		3.17		429.19
	2026	10	5.24%	12.73%	26.20	3.33	451.68	455.01		451.68
	2027	11+	3.80%	12.73%	27.19	3.46				
							K _e =	9.97%		

Atlas Air									
AAWW		Growth	Payout			Terminal			
	Year	Rate	Ratio	Earnings	Dividends	Value			
	0			1.45	-		(52.15)	price =	52.15
2017	1	10.50%	0.00%	1.60	0.00		0.00		57.63
2018	2	6.00%	0.00%	1.70	0.00		0.00		61.08
2019	3	0.50%	0.00%	1.71	0.00		0.00		61.39
2020	4	3.50%	0.00%	1.77	0.00		0.00		63.54
2021	5	15.50%	0.00%	2.04	0.00		0.00		73.39
2022	6	15.50%	0.00%	2.36	0.00		0.00		84.76
2023	7	13.16%	0.00%	2.67	0.00		0.00		95.91
2024	8	10.82%	0.00%	2.96	0.00		0.00		106.29
2025	9	8.48%	0.00%	3.21	0.00		0.00		115.31
2026	10	6.14%	0.00%	3.40	0.00	122.39	122.39		122.39
2027	11+	3.80%	0.00%	3.53	0.00				

source: Valueline

CH Robinsor

CHRW			Growth	Payout			Terminal			
		Year	Rate	Ratio	Earnings	Dividends	Value			
		0			3.59	1.74		(73.26)	price =	73.26
	2017	1	10.50%	48.47%	3.97	1.92		1.92		80.95
	2018	2	8.00%	48.47%	4.28	2.08		2.08		87.43
	2019	3	7.00%	48.47%	4.58	2.22		2.22		93.55
	2020	4	6.50%	48.47%	4.88	2.37		2.37		99.63
	2021	5	7.50%	48.47%	5.25	2.54		2.54		107.10
	2022	6	6.50%	48.00%	5.59	2.68		2.68		114.06
	2023	7	5.96%	48.00%	5.92	2.84		2.84		120.86
	2024	8	5.42%	48.00%	6.24	3.00		3.00		127.41
	2025	9	4.88%	48.00%	6.55	3.14		3.14		133.63
	2026	10	4.34%	48.00%	6.83	3.28	139.43	142.71		139.43
	2027	11+	3.80%	48.00%	7.09	3.40				
							K _e =	9.28%		

source: Valueline

Expeditors Int'l

expeditors frit i									
EXPD		Growth	Payout			Terminal			
	Year	Rate	Ratio	Earnings	Dividends	Value			
•	0			2.35	0.80		(52.96)	price =	52.96
2017	1	11.50%	34.04%	2.62	0.89		0.89		59.05
2018	2	7.00%	34.04%	2.80	0.95		0.95		63.18
2019	3	6.50%	34.04%	2.99	1.02		1.02		67.29
2020	4	10.00%	34.04%	3.28	1.12		1.12		74.02
2021	5	10.00%	34.04%	3.61	1.23		1.23		81.42
2022	6	8.50%	31.43%	3.92	1.23		1.23		88.34
2023	7	7.56%	31.43%	4.22	1.33		1.33		95.02
2024	8	6.62%	31.43%	4.50	1.41		1.41		101.31
2025	9	5.68%	31.43%	4.75	1.49		1.49		107.07
2026	10	4.74%	31.43%	4.98	1.56	112.14	113.71		112.14
2027	11+	3.80%	31.43%	5.17	1.62				
						K _e =	9.42%		

IMPLIED PREMIUMS FOR US MARKET

Updated January 2017.

These implied premiums are calculated using the S&P 500.

Year	arnings Yield	ividend Yield	S&P 500	Earnings*	Dividends*	nge in Earni	nae in Divide	T.Bill Rate	T.Bond Rate	Bond-Bill	oothed Grov	d Premium (t Growth Est	Implied Premium (FCFE)	ERP/Riskfree Rate
1960	5.34%	3.41%	58.11	3.10	1.98			0.0266	2.76%	0.10%	2.45%				,e.g. cce.c
1961	4.71%	2.85%	71.55	3.37	2.04	8.60%	2.91%	2.13%	2.35%	0.22%	2.41%	2.92%		2.92%	1.24
1962	5.81%	3.40%	63.1	3.67	2.15	8.79%	5.21%	2.73%	3.85%	1.12%	4.05%	3.56%		3.56%	0.92
1963	5.51%	3.13%	75.02	4.13	2.35	12.75%	9.45%	3.12%	4.14%	1.02%	4.96%	3.38%		3.38%	0.82
1964	5.62%	3.05%	84.75	4.76	2.58	15.23%	10.08%	3.54%	4.21%	0.67%	5.13%	3.31%		3.31%	0.79
1965	5.73%	3.06%	92.43	5.30	2.83	11.20%	9.42%	3.93%	4.65%	0.72%	5.46%	3.32%		3.32%	0.71
1966	6.74%	3.59%	80.33	5.41	2.88	2.23%	1.96%	4.76%	4.64%	-0.12%	4.19%	3.68%		3.68%	0.79
1967	5.66%	3.09%	96.47	5.46	2.98	0.85%	3.37%	4.21%	5.70%	1.49%	5.25%	3.20%		3.20%	0.56
1968	5.51%	2.93%	103.86	5.72	3.04	4.81%	2.09%	5.21%	6.16%	0.95%	5.32%	3.00%		3.00%	0.49
1969	6.63%	3.52%	92.06	6.10	3.24	6.66%	6.49%	6.58%	7.88%	1.30%	7.55%	3.74%		3.74%	0.47
1970	5.98%	3.46%	92.15	5.51	3.19	-9.72%	-1.61%	6.53%	6.50%	-0.03%	4.78%	3.41%		3.41%	0.52
1971	5.46%	3.10%	102.09	5.57	3.16	1.15%	-0.74%	4.39%	5.89%	1.50%	4.57%	3.09%		3.09%	0.52
1972	5.23%	2.70%	118.05	6.17	3.19	10.76%	0.71%	3.84%	6.41%	2.57%	5.21%	2.72%		2.72%	0.42
1973	8.16%	3.70%	97.55	7.96	3.61	28.93%	13.24%	6.93%	6.90%	-0.03%	8.30%	4.30%		4.30%	0.62
1974	13.64%	5.43%	68.56	9.35	3.72	17.48%	3.14%	8.00%	7.40%	-0.60%	6.42%	5.59%		5.59%	0.76
1975	8.55%	4.14%	90.19	7.71	3.73	-17.54%	0.30%	5.80%	7.76%	1.96%	5.99%	4.13%		4.13%	0.70
1976	9.07%	3.93%	107.46	9.75	4.22	26.39%	13.10%	5.08%	6.81%	1.73%	8.19%	4.15%		4.15%	0.53
1976	11.43%	5.11%	95.1	10.87	4.22	11.53%	15.07%	5.12%	7.78%	2.66%	9.52%	5.92%		5.92%	0.67
1977	11.43%	5.11%	96.11	11.64	5.18	7.07%	6.60%	7.18%	9.15%	1.97%	9.52% 8.48%	5.92%		5.92%	0.76
1978	13.48%		107.94	14.55	5.18	25.01%	15.23%	10.38%	10.33%	-0.05%	11.70%	6.45%		6.45%	0.63
		5.53%													
1980	11.04%	4.74%	135.76	14.99	6.44	3.01%	7.81%	11.24%	12.43%	1.19%	11.01%	5.03%		5.03%	0.40
1981	12.39%	5.57%	122.55	15.18	6.83	1.31%	6.08%	14.71%	13.98%	-0.73%	11.42%	5.73%		5.73%	0.41
1982	9.83%	4.93%	140.64	13.82	6.93	-8.95%	1.58%	10.54%	10.47%	-0.07%	7.96%	4.90%		4.90%	0.47
1983	8.06%	4.32%	164.93	13.29	7.12	-3.84%	2.76%	8.80%	11.80%	3.00%	9.09%	4.31%		4.31%	0.37
1984	10.07%	4.68%	167.24	16.84	7.83	26.69%	9.85%	9.85%	11.51%	1.66%	11.02%	5.11%		5.11%	0.44
1985	7.42%	3.88%	211.28	15.68	8.20	-6.91%	4.74%	7.72%	8.99%	1.27%	7.89%	4.03%	6.75%	3.84%	0.43
1986	5.96%	3.38%	242.17	14.43	8.19	-7.93%	-0.15%	6.16%	7.22%	1.06%	5.54%	3.36%	6.96%	3.58%	0.50
1987	6.49%	3.71%	247.08	16.04	9.17	11.10%	11.99%	5.47%	8.86%	3.39%	9.66%	4.18%	8.58%	3.99%	0.45
1988	8.20%	3.68%	277.72	24.12	10.22	50.42%	11.49%	6.35%	9.14%	2.79%	9.76%	4.12%	7.67%	3.77%	0.41
1989	6.80%	3.32%	353.4	24.32	11.73	0.83%	14.80%	8.37%	7.93%	-0.44%	9.58%	3.85%	7.46%	3.51%	0.44
1990	6.58%	3.74%	330.22	22.65	12.35	-6.87%	5.26%	7.81%	8.07%	0.26%	7.39%	3.92%	7.19%	3.89%	0.48
1991	4.58%	3.11%	417.09	19.30	12.97	-14.79%	5.03%	7.00%	6.70%	-0.30%	6.34%	3.27%	7.81%	3.48%	0.52
1992	4.16%	2.90%	435.71	20.87	12.64	8.13%	-2.59%	5.30%	6.68%	1.38%	4.67%	2.83%	9.83%	3.55%	0.53
1993	4.25%	2.72%	466.45	26.90	12.69	28.89%	0.41%	3.50%	5.79%	2.29%	4.73%	2.74%	8.00%	3.17%	0.55
1994	5.89%	2.91%	459.27	31.75	13.36	18.03%	5.34%	5.00%	7.82%	2.82%	7.23%	3.06%	7.17%	3.55%	0.45
1995	5.74%	2.30%	615.93	37.70	14.17	18.74%	6.00%	3.50%	5.57%	2.07%	5.65%	2.44%	6.50%	3.29%	0.59
1996	4.83%	2.01%	740.74	40.63	14.89	7.77%	5.10%	5.00%	6.41%	1.41%	6.13%	2.11%	7.92%	3.20%	0.50
1997	4.08%	1.60%	970.43	44.09	15.52	8.52%	4.25%	5.35%	5.74%	0.39%	5.45%	1.67%	8.00%	2.73%	0.48
1998	3.11%	1.32%	1229.23	44.27	16.20	0.41%	4.37%	4.33%	4.65%	0.32%	4.60%	1.38%	7.20%	2.26%	0.49
1999	3.07%	1.14%	1469.25	51.68	16.71	16.74%	3.16%	5.37%	6.44%	1.07%	5.75%	1.20%	12.50%	2.05%	0.32
2000	3.94%	1.23%	1320.28	56.13	16.27	8.61%	-2.65%	5.73%	5.11%	-0.62%	3.71%	1.65%	12.00%	2.87%	0.56
2001	3.85%	1.37%	1148.09	38.85	15.74	-30.79%	-3.24%	1.80%	5.05%	3.25%	3.56%	1.73%	10.30%	3.62%	0.72
2002	5.23%	1.83%	879.82	46.04	16.08	18.51%	2.15%	1.20%	3.81%	2.61%	3.57%	2.29%	8.00%	4.10%	1.08
2003	4.87%	1.61%	1111.91	54.69	17.88	18.79%	11.19%	1.00%	4.25%	3.25%	5.35%	2.12%	11.00%	3.69%	0.87
2004	5.58%	1.60%	1211.92	67.68	19.407	23.75%	8.54%	2.18%	4.22%	2.04%	4.90%	2.02%	8.50%	3.65%	0.86
2005	5.47%	1.79%	1248.29	76.45	22.38	12.96%	15.32%	4.31%	4.39%	0.08%	6.16%	2.20%	8.00%	4.08%	0.93
2006	6.18%	1.77%	1418.3	87.72	25.05	14.74%	11.93%	4.88%	4.70%	-0.18%	5.93%	1.97%	12.50%	4.16%	0.89
2007	5.62%	1.89%	1468.36	82.54	27.73	-5.91%	10.70%	3.31%	4.02%	0.71%	5.03%	2.06%	5.00%	4.37%	1.09
2008	7.24%	3.11%	903.25	65.39	28.05	-20.78%	1.15%	1.59%	2.21%	0.62%	2.11%	4.05%	4.00%	6.43%	2.91
2009	5.35%	2.00%	1115.10	59.65	22.31	-8.78%	-20.46%	0.14%	3.84%	3.70%	0.28%	2.60%	7.20%	4.36%	1.14
2010	6.65%	1.84%	1257.64	83.66	23.12	40.25%	3.63%	0.13%	3.29%	3.16%	3.33%	2.24%	6.95%	5.20%	1.58
2011	7.72%	2.07%	1257.60	97.05	26.02	16.01%	12.54%	0.03%	1.88%	1.85%	2.75%	2.71%	7.18%	6.01%	3.20
2012	7.18%	2.13%	1426.19	102.47	30.44	5.58%	16.99%	0.05%	1.76%	1.71%	2.93%	2.47%	5.27%	5.78%	3.28
2013	5.81%	1.96%	1848.36	107.45	36.28	4.86%	19.19%	0.07%	3.04%	2.97%	5.01%	2.03%	4.28%	4.96%	1.63
2014	5.57%	1.87%	2058.90	114.74	38.57	6.78%	6.31%	0.05%	2.17%	2.12%	2.55%	2.24%	5.58%	5.78%	2.66
2015	5.20%	2.11%	2043.94	106.32	43.16	-5.92%	9.43%	0.21%	2.27%	2.06%	2.96%	2.46%	5.55%	6.12%	2.7
2016	4.86%	2.01%	2238.83	108.86	45.03	2.39%	4.33%	0.51%	2.45%	1.94%	2.64%	2.41%	5.54%	5.69%	2.32