

### Recommendation

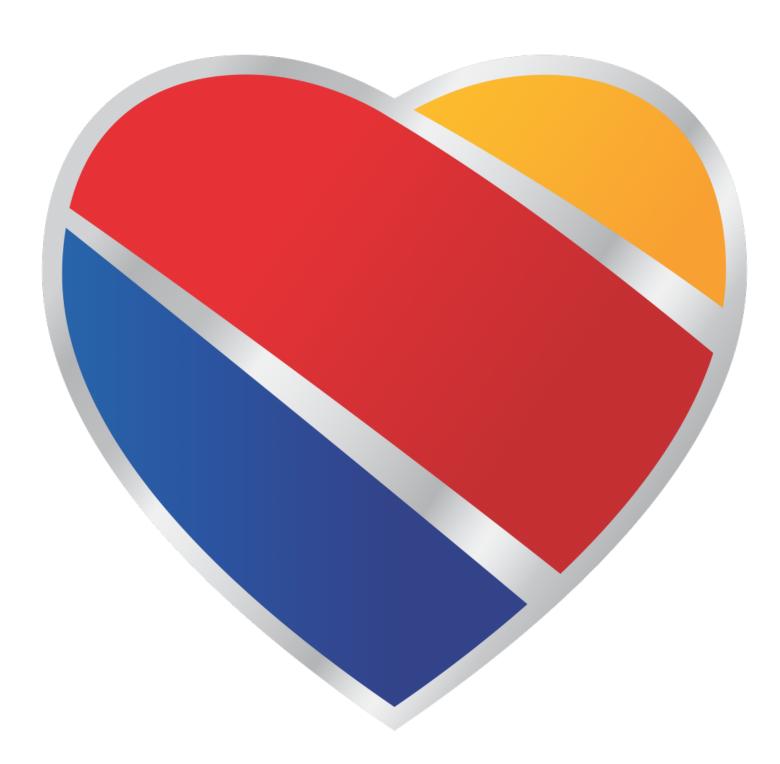
- Southwest is a low-cost carrier leader
- Capital structure of low leverage, high cash resources, and share repurchases
- Uniquely able to endure the current hardships in the industry within guiding limitations

**HOLD / Moderate Buy** 

for long-term investors

SELL

for short-term investors



### Recommendation



## Company Overview + Business Strategy



### **Company Overview**

- Nationally base airliner and low-cost provider
- Hit hard by COVID-19 global pandemic
- Their unique strategy continues to serve them during this crisis

### Competitors

• JetBlue, Spirit, Delta, Alaska, United etc.



### **Southwest Strategy**

- Cost leadership strategy ("Southwest model")
- Focuses on driving down costs for customers
- Unbundled services to maintain low costs
- Unique product offerings with the business customer (the highest value marketing target)
- Reduce costs:
  - replacing aging plans with a fuel-efficient fleet
  - increasing passenger capacity
  - using hub-and-spoke routing



### **Southwest Strategy**

- SW has since become a more hybrid operation:
  - customer satisfaction
  - price
  - geography
  - network availability
- Southwest is large enough:
  - traditional hub and spoke model
  - but has own distinct strategy of network saturation and continuous geographic expansion.



## Southwest Historically (Before COVID-19)

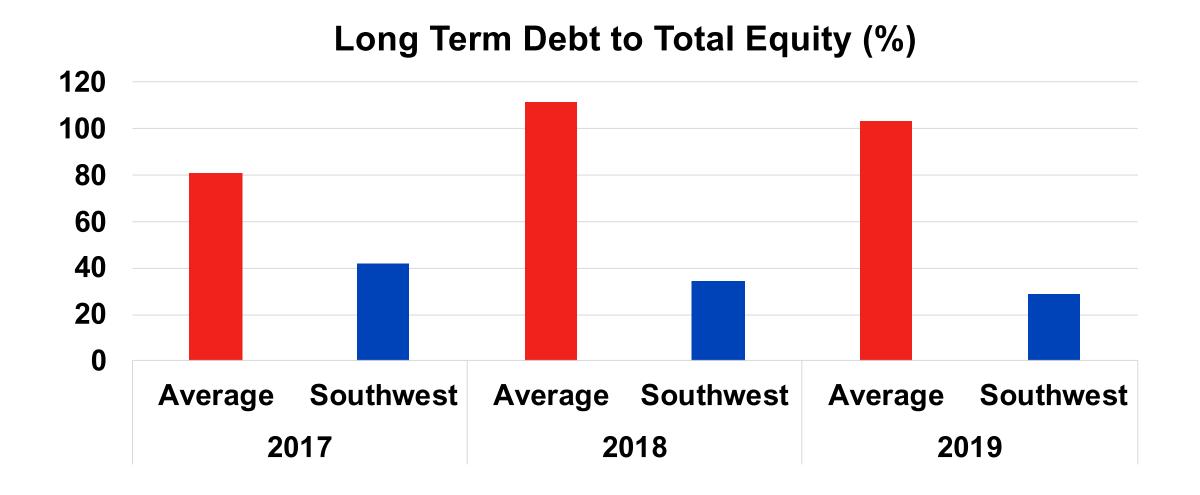


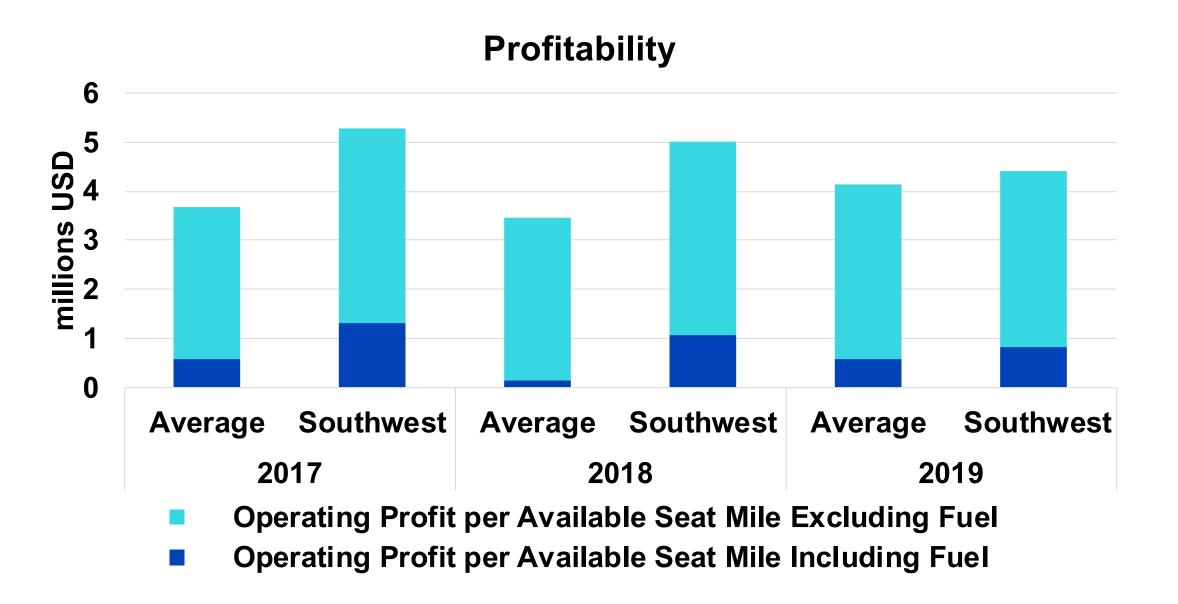
# Potential Strength (2017-2019)

lower debt to equity than competitors

higher operating profit per seat mile than competitors



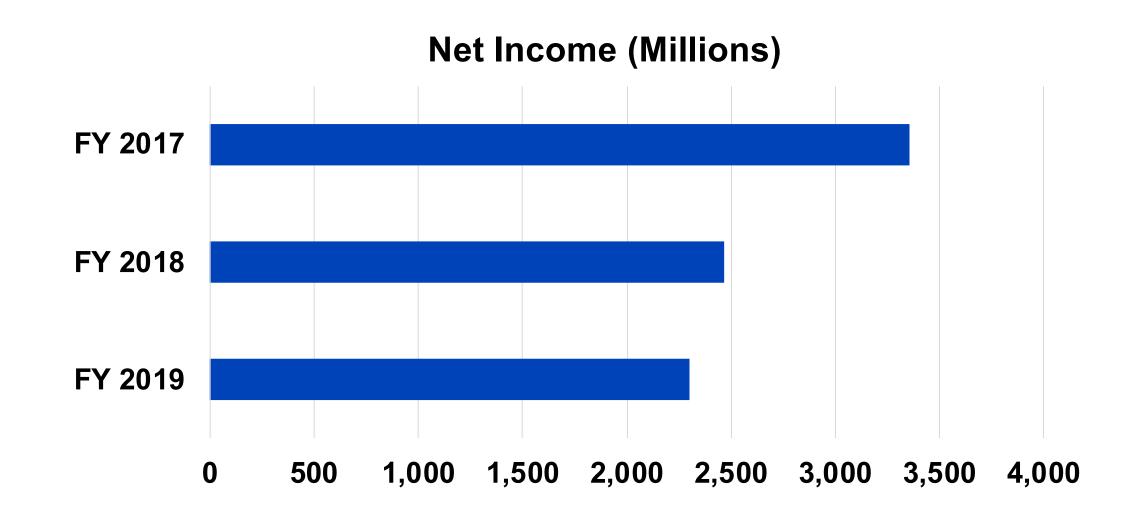


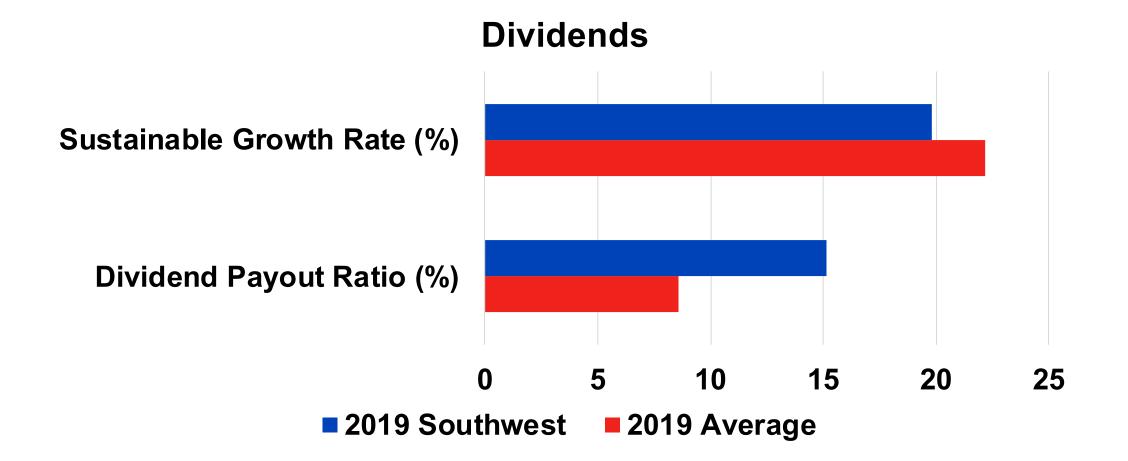


# Potential Weakness (2017-2019)

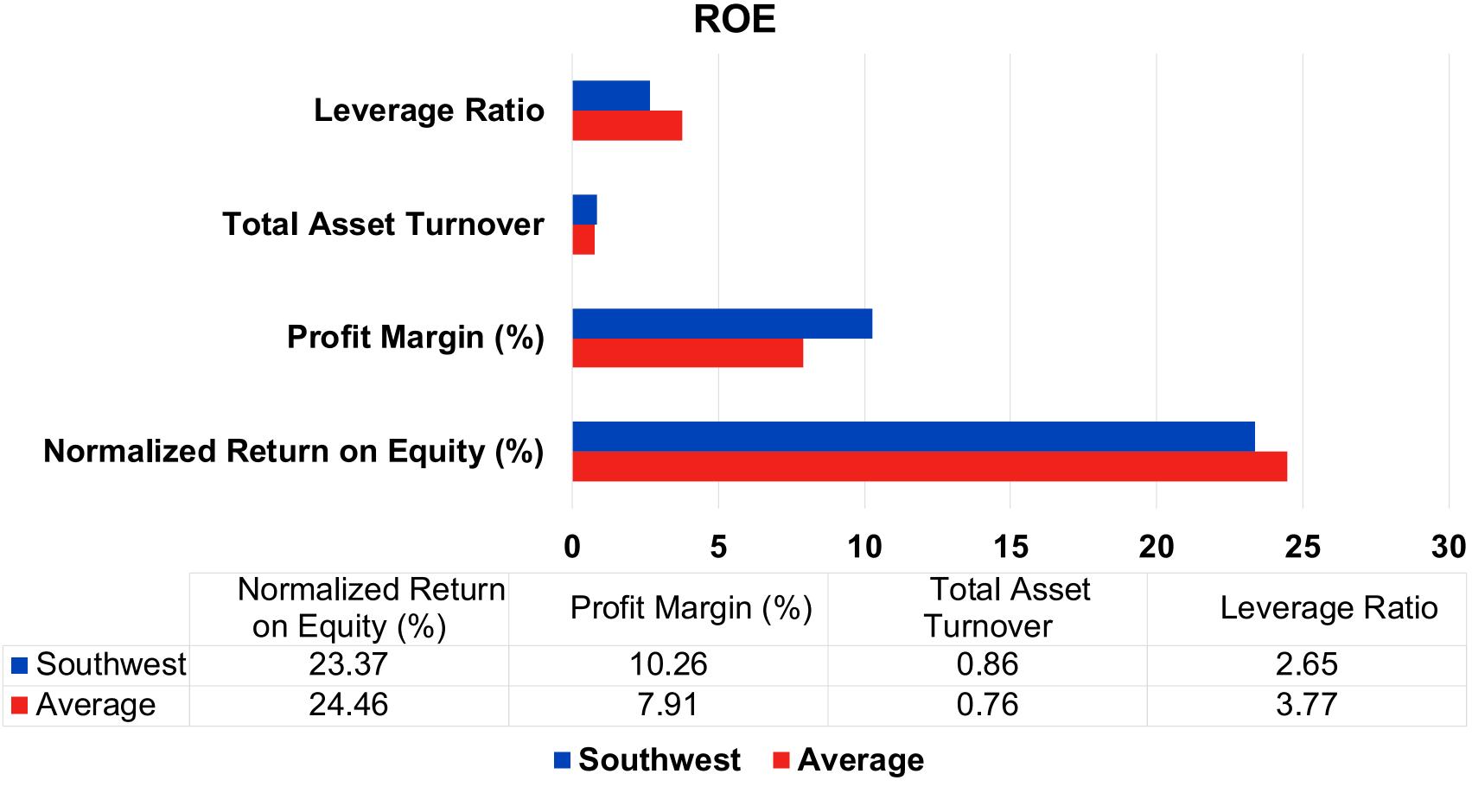
However, increased expenses and taxes have reduced overall profit

As of 2019, Southwest favored dividends over capital reinvestment

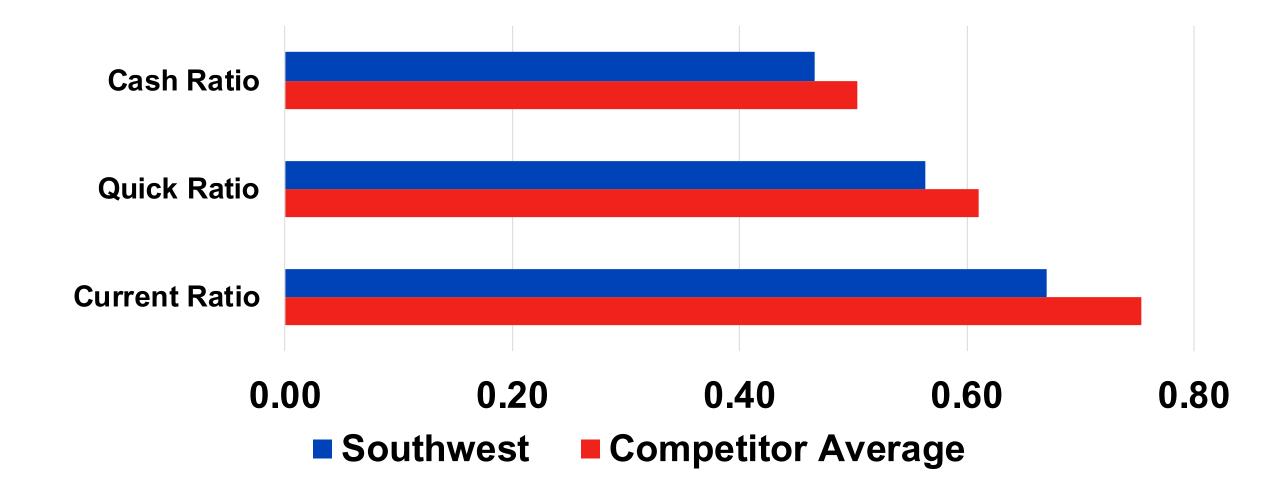




# Dupont Analysis (2019)



## Liquidity (2017 - 2019 [Average])



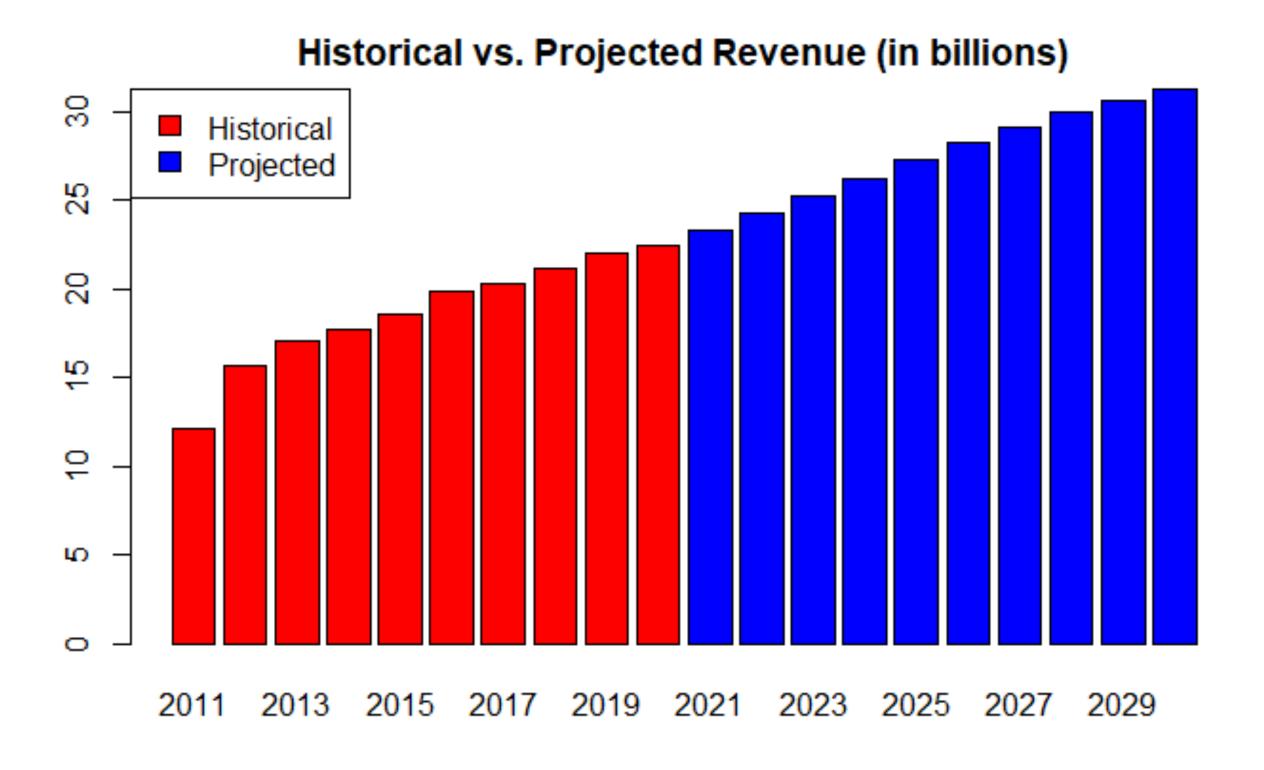
Liquidity ratios							
	<b>20</b> <sup>-</sup>	17	20	18	2019		
	Competitors Southwest		Competitors	Southwest	Competitors	Southwest	
<b>Current Ratio</b>	0.83	0.7	0.73	0.64	0.7	0.67	
Quick Ratio	0.65	0.57	0.6	0.54	0.58	0.58	
Cash Ratio	0.53	0.48	0.5	0.47	0.48	0.45	

## Valuation

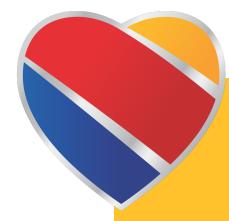


## Valuation Assumptions Past Growth - Expected Growth





## Valuation Discounted Cash Flow Model



Value/share \$72.00 Southwest is **undervalued** 

Valuation	
WACC	9.38%
Weight Debt	39.54%
Weight Equity	60.46%
Cost of Equity, CAPM	13.68%
Beta	1.23
Cost of Debt (bbb)	3.59%
Price/share (April 20)	\$31.06, 508m shares
Terminal Growth Rate	2.0%

## Southwest Transitioning (with COVID-19 ongoing)



## Valuation P/E Ratio

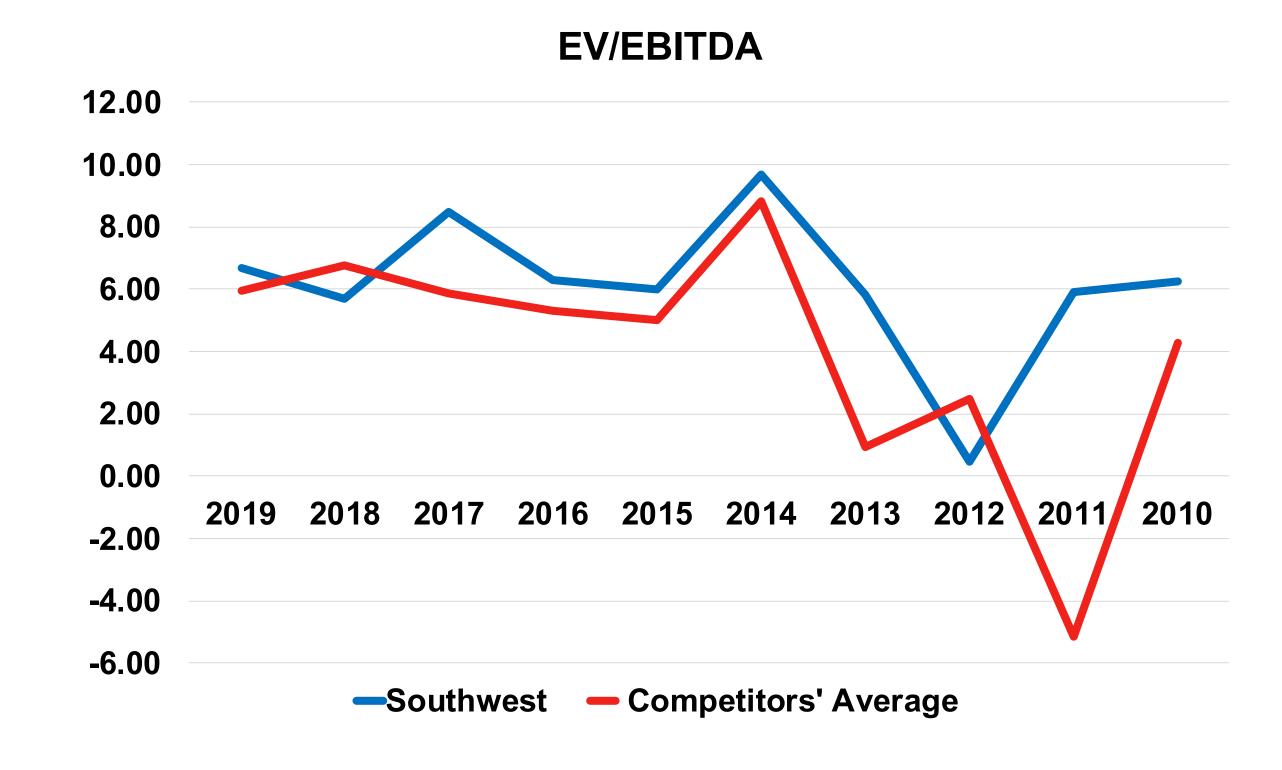
- LUV stock price (March 31, 2020): \$35.61
- Based on the competitors' P/E ratio \* LUV EPS, we get the range of high, average, and low price
- The range of expected share price is from \$11.35 to \$30.68 which are much lower than \$35.61.
- LUV overvalued

Stock price, EPS and P/E ratio										
	Southwest	Jet Blue	Spirit	Delta	Alaska					
Stock Price (March 31)	\$35.61	\$8.95	\$12.89	\$28.53	\$28.47					
EPS (TTM/4)	\$0.90	\$0.45	\$1.02	\$1.56	\$1.54					
P/E ratio	9.95	5.03	3.17	4.58	4.61					

<b>Expected Price</b>	
	Southwest
Expected Market Price	\$18.59
High Price	\$30.68
Low Price	\$11.35

## Valuation EV/EBITDA

- LUV (2019): 6.67
   Competitors' average (2019): 5.96
- LUV tends to have higher EV/EBITDA in past 10 years.
- LUV (2020.1Q): 94.95
   Competitors' average (2020.1Q): 33.65
- LUV overvalued



<b>Current EV/EBITDA</b>		
	Southwest	Competitors' Average
EV/EBITDA (2020.1Q)	94.95	33.65





## Scenario Analysis WACC Adjustments

- Adjusted current, pessimistic and optimistic WACC based on COVID19 assumptions
- The stock period: day of state of emergency from the state government on March 13th to May 11th.
- Current WACC is 9.22%
   Optimistic WACC is 8.93%
   Pessimistic WACC is 8.02%

Assumptions				WACC
	Total Debt N (million)	umber of shares	Stock Price	New WACC
Current (May 11)	\$10,318	589M	\$25.24	9.22%
Optimistic	\$16,466	519M	\$41.28	8.93%
Pessimistic	\$20,260	750M	\$24.92	8.02%

## Potential Impact of COVID-19

#### Cashflow scenarios for the next two years

	ba	Two-year DCF Sensitivity Table based on 2019 FCF of 3.36B (present value in millions USE									
		Weighted Average Cost of Capital (WACC)									
		6.5%	7.0%	7.5%	8.0%	8.5%	9.0%	9.5%	10.0%		
	-75%	4,334	4,328	4,323	4,318	4,313	4,307	4,302	4,297		
	-50%	5,678	5,664	5,650	5,636	5,622	5,608	5,595	5,581		
	-25%	7,393	7,366	7,340	7,314	7,288	7,263	7,238	7,213		
Growth Rate	0%	9,477	9,435	9,393	9,352	9,311	9,271	9,231	9,191		
	1%	9,568	9,525	9,483	9,441	9,399	9,358	9,318	9,278		
	2%	9,660	9,616	9,573	9,530	9,488	9,447	9,405	9,365		
	3%	9,752	9,708	9,664	9,621	9,578	9,535	9,493	9,452		
	4%	9,845	9,800	9,755	9,711	9,668	9,625	9,582	9,540		

#### **Relative Valuation**

Enterprise Value (as of 5/8/2020)									
Air									
SW	JetBlue	Spirit	Delta	Alaska	American	United	Canada		
15,570	3,870	2,130	25,520	3,815	25,160	19,410	5,276		

EBITDA (Q1 2020)										
								Air		
	SW	JetBlue	Spirit	Delta	Alaska	American	United	Canada		
EBITDA	201	(195)	8	(410)	(213)	(2,466)	(972)	71		
change from										
2019	-75%	-203%	-1632%	-140%	-162%	-118%	-296%	-721%		

EV/EBITDA multiple										
Southwest JetBlue Spirit Delta Alaska American United Air Canada										
77.46 - 266.28 74.31										
a lowe	er EV/EBI	TDA multiple	may si	ignal that	a company	is underv	alued			
blank scores indicate negative EBITDA										
EV/EBI	TDA multi	ples prior to	restrict	ions were	e in the high	30's to m	id 40's.			

## **Summary Table of Recommendations Value Recap**

Outlooks				
	Pessimistic Outlook	Target Short Term (Q1 guidance w –25%)	Target Long Term	Optimistic
Growth rate	-75%	-25%	0%	0%
WACC	8.02%	9.22%	9.22%	8.93%
Value per share	\$8.88	\$18.44	\$49.19	\$57.29
Conclusion	Overvalued	Overvalued	Undervalued	Undervalued
	<b>\$24</b>	SW Marke		

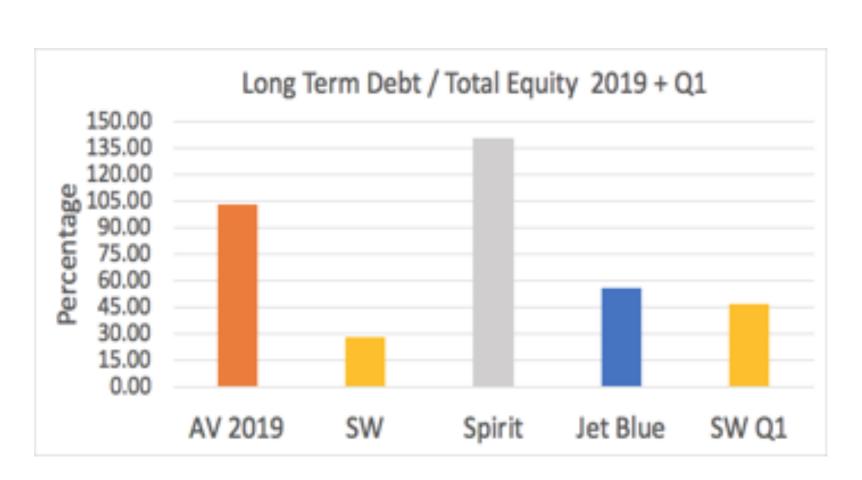
### Final Summary + Ongoing SW Strategy

Strong strategy 2019 high quick ratio low leverage ratio

Strong relative valuation

Recently Bolstered Liquidity Government Support

COVID Recovery to 0% growth



HOLD / Moderate Buy for long-term investors

SELL

for short-term investors







### Discussion Q&A

Think about it... Why did Buffet sell his stocks? Did he make the right move? What's the reason behind his move?

## Valuation Assumptions Operating Margins

Revenues trend is steadily increasing over period 2012-2019 at an average rate of 3.97%.

Operating margin consistently above and on track with competitors however SW fluctuates heavily due to sharp losses in fuel hedging in recent years

Sharp losses due to aggressive fuel hedging from beginning in 2017

Changed their strategy and reported fuel hedging losses would be negligible going forward.

Average operating margin over last three years is 14.63% with a decreasing trend.

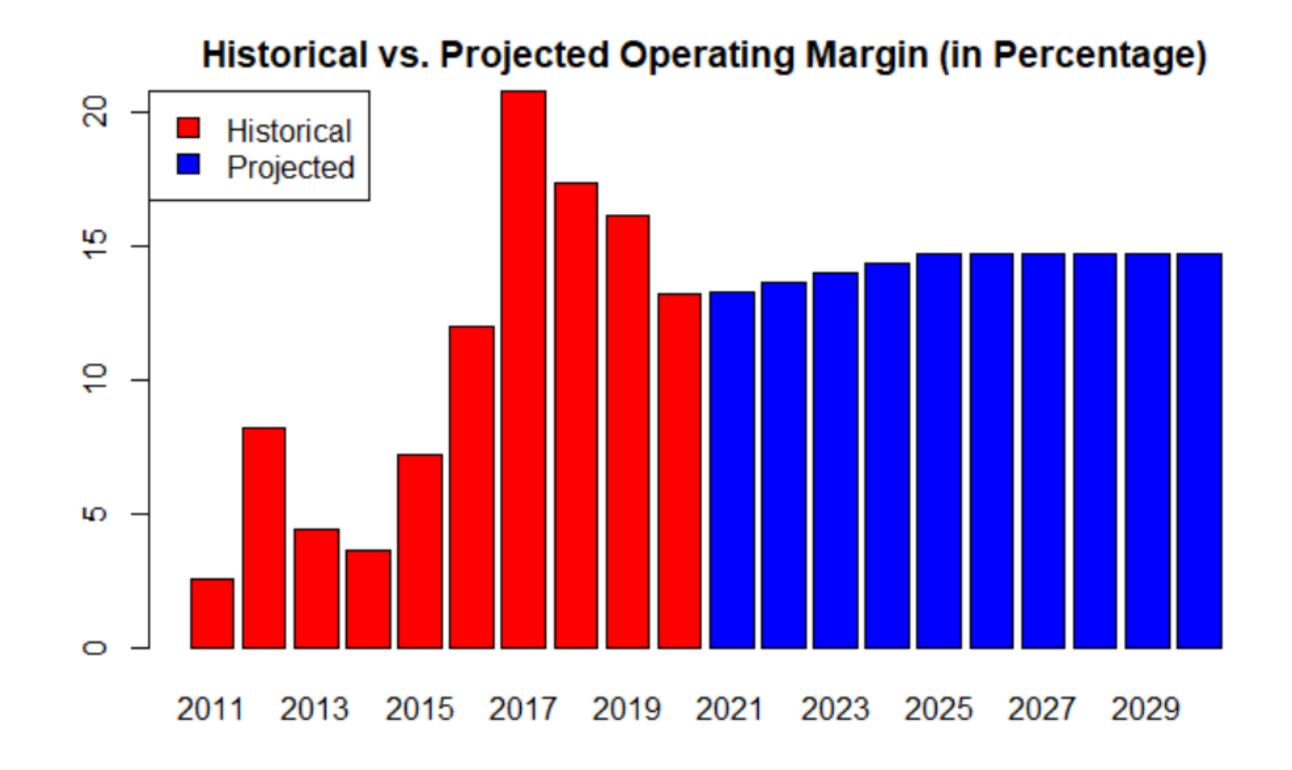


Table 1 - Financial Ratios Across Airlines - FY 2017

In Millions of USD except Per Share	Average*	Southwest	Jet Blue	Spirit	Delta	Alaska	American	United	Air Canada
	FY 2017	FY 2017	FY 2017	FY 2017	FY 2017	FY 2017	FY 2017	FY 2017	FY 2017
Market Value (Performance)									
Market Capitalization to Book Value	(1.83)	3.75	1.52	1.74	3.16	2.61	(31.72)	2.21	2.07
Profitability									
Operating Margin (%)	13.11	15.75	13.96	15.40	14.33	15.77	10.44	9.60	9.61
Return on Assets (%)	9.07	13.87	11.93	11.39	6.11	9.27	2.46	5.20	12.34
Operating Profit per Available Seat Mile Including Fuel	0.57	1.32	1.32	1.30	(0.12)	1.95	0.27	0.13	(1.60)
Operating Profit per Available Seat Mile Excluding Fuel	3.11	3.97	3.75	3.38	2.54	4.28	2.99	2.76	1.23
Dupont Analysis (ROE)									
Normalized Return on Equity (%)	29.52	37.45	26.07	14.85	27.72	24.75	_	23.89	51.89
Profit Margin (%)	11.12	15.88	16.26	15.72	7.79	12.16	3.01	5.67	12.48
Total Asset Turnover	0.83	0.87	0.73	0.72	0.78	0.76	0.82	0.92	0.99
Leverage Ratio	7.64	2.68	2.18	2.31	4.23	3.24	34.63	4.74	7.09
Asset Management (Efficiency)									
Accounts Receivable Turnover	30.88	35.01	33.63	58.45	18.53	24.55	25.48	30.04	21.37
Days Sales Outstanding - DSO	13.21	10.43	10.85	6.24	19.70	14.87	14.33	12.15	17.08
Fuel Cost per Available Seat Mile	2.54	2.65	2.43	2.08	2.66	2.33	2.72	2.63	2.83
Fuel % of Oper Exp	21.62	23.00	22.60	27.25	19.21	21.64	19.56	20.00	19.67
Debt Management (Leverage)									
Long Term Debt to Total Equity (%)	80.61	41.71	21.20	78.76	52.61	65.38	_	145.40	159.21
Liquidity									
Current Ratio	0.83	0.70	0.56	1.93	0.41	0.80	0.60	0.56	1.06
Quick Ratio	0.65	0.57	0.44	1.43	0.26	0.73	0.44	0.40	0.91
Cash Ratio	0.53	0.48	0.32	1.36	0.14	0.60	0.33	0.30	0.75
Altman's Z-Score* (Bankruptcy Risk)	2.31	3.73	2.29	2.42	2.21	2.81	1.50	1.79	1.74
Free Cash Flow	247.42	1,806.00	177.00	(203.64)	1,132.00	564.00	(1,227.00)	(585.00)	316.00
Dividend Payout Ratio (%)	7.77	8.52	0.00	0.00	22.81	15.40	15.44	0.00	0.00
Sustainable Growth Rate (%)	34.83	33.97	26.07	26.32	19.94	25.42	_	24.65	87.44

<sup>\*</sup>Note: calculated competitor average

Table 2 - Financial Ratios Across Airlines - FY 2018

In Millions of USD except Per Share	Average*	Southwest	Jet Blue	Spirit	Delta	Alaska	American	United	Air Canada
	FY 2018	FY 2018	FY 2018	FY 2018	FY 2018	FY 2018	FY 2018	FY 2018	FY 2018
Market Value (Performance)									
Market Capitalization to Book Value	(9.12)	2.61	1.05	2.05	2.48	2.00	(87.52)	2.25	2.14
Profitability									
Operating Margin (%)	8.28	14.83	3.64	8.69	12.29	7.96	6.60	8.03	4.22
Return on Assets (%)	4.13	9.60	1.82	3.35	6.91	4.04	2.49	4.66	0.19
Operating Profit per Available Seat Mile Including Fuel	0.14	1.06	(0.01)	0.96	0.22	0.99	(0.43)	(0.11)	(1.60)
Operating Profit per Available Seat Mile Excluding Fuel	3.32	3.95	3.16	3.53	3.64	3.95	3.08	3.27	1.98
Dupont Analysis (ROE)									
Normalized Return on Equity (%)	18.37	24.98	10.72	16.84	29.87	15.37	_	26.91	3.94
Profit Margin (%)	5.13	11.22	2.47	4.69	8.86	5.29	3.17	5.15	0.21
Total Asset Turnover	0.81	0.86	0.74	0.71	0.78	0.76	0.79	0.90	0.91
Leverage Ratio	3.64	2.63	2.20	2.52	4.35	3.00	_	4.87	5.92
Asset Management (Efficiency)									
Accounts Receivable Turnover	32.27	35.72	33.59	68.53	18.95	23.38	25.76	29.86	22.36
Days Sales Outstanding - DSO	13.00	10.22	10.87	5.33	19.27	15.61	14.17	12.22	16.32
Fuel Cost per Available Seat Mile	3.19	2.89	3.17	2.57	3.42	2.96	3.51	3.38	3.58
Fuel % of Oper Exp	25.25	24.60	25.70	31.60	23.03	25.40	23.63	24.00	24.04
Debt Management (Leverage)									
Long Term Debt to Total Equity (%)	111.25	34.68	46.08	105.04	102.68	43.11	_	176.41	270.77
Liquidity									
Current Ratio	0.73	0.64	0.55	1.61	0.34	0.61	0.48	0.51	1.11
Quick Ratio	0.60	0.54	0.43	1.38	0.22	0.54	0.36	0.39	0.97
Cash Ratio	0.50	0.47	0.35	1.33	0.10	0.42	0.26	0.29	0.83
Altman's Z-Score* (Bankruptcy Risk)	1.92	3.03	1.72	2.16	1.78	2.36	0.92	1.64	1.78
Free Cash Flow	982.94	2,971.00	86.00	(100.51)	1,846.00	235.00	(212.00)	2,004.00	1,034.00
Dividend Payout Ratio (%)	10.81	14.12	0.00	0.00	23.10	36.09	13.17	0.00	0.00
Sustainable Growth Rate (%)	12.68	21.72	4.01	8.44	23.08	7.75	_	22.68	1.10

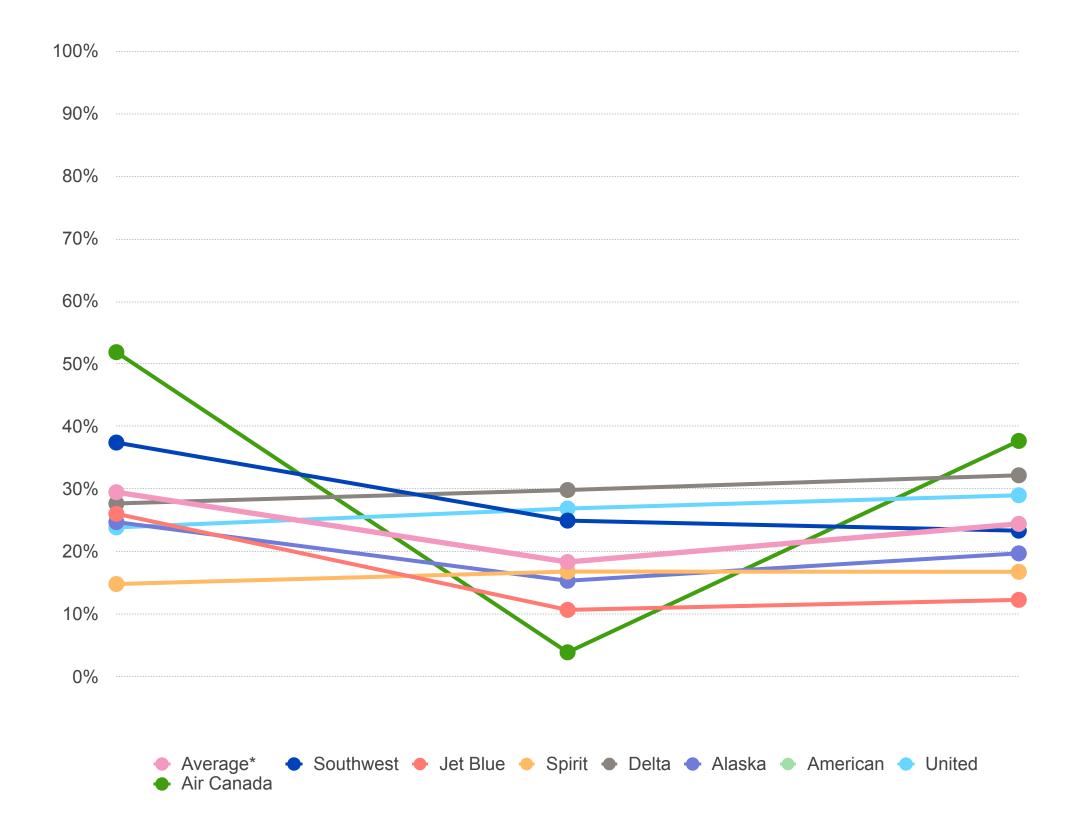
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Table 3 <u>- Financial</u> Ratios Across Airlines - FY 2019

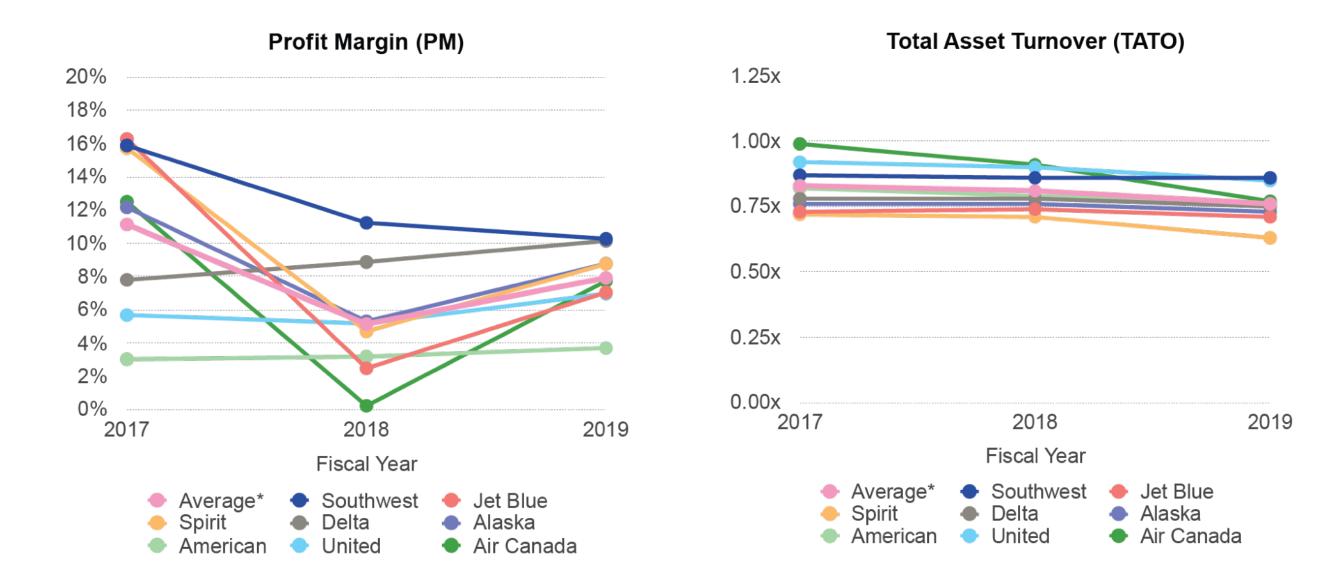
In Millions of USD except Per Share	Average*	Southwest	Jet Blue	Spirit	Delta	Alaska	American	United	Air Canada
	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019
Market Value (Performance)									
Market Capitalization to Book Value	(11.21)	2.85	1.10	1.22	2.45	1.92	(104.08)	1.93	2.91
Profitability									
Operating Margin (%)	11.71	13.55	10.29	14.04	13.83	12.29	7.32	10.54	11.79
Return on Assets (%)	6.00	8.82	4.97	5.49	7.64	6.43	2.80	5.92	5.95
Operating Profit per Available Seat Mile Including Fuel	0.58	0.83	0.77	1.20	1.98	1.59	(0.24)	0.23	(1.70)
Operating Profit per Available Seat Mile Excluding Fuel	3.56	3.59	3.66	3.58	5.07	4.41	3.06	3.37	1.72
Dupont Analysis (ROE)									
Normalized Return on Equity (%)	24.46	23.37	12.32	16.80	32.22	19.75	_	29.03	37.71
Profit Margin (%)	7.91	10.26	7.03	8.75	10.14	8.76	3.68	6.96	7.72
Total Asset Turnover	0.76	0.86	0.71	0.63	0.75	0.73	0.76	0.85	0.77
Leverage Ratio	3.77	2.65	2.41	2.91	4.30	2.96	_	4.71	6.47
Asset Management (Efficiency)									
Accounts Receivable Turnover	31.28	27.12	36.62	63.07	18.19	25.49	26.49	31.01	22.22
Days Sales Outstanding - DSO	13.20	13.46	9.97	5.79	20.06	14.32	13.78	11.77	16.43
Fuel Cost per Available Seat Mile	2.98	2.76	2.89	2.38	3.09	2.82	3.30	3.14	3.42
Fuel % of Oper Exp	23.74	22.30	25.30	29.84	21.09	24.33	22.00	22.98	22.09
Debt Management (Leverage)									
Long Term Debt to Total Equity (%)	102.99	28.72	55.85	140.56	92.25	62.41	_	158.80	182.36
Liquidity									
Current Ratio	0.70	0.67	0.67	1.25	0.41	0.64	0.45	0.55	0.97
Quick Ratio	0.58	0.58	0.59	1.04	0.28	0.58	0.30	0.42	0.88
Cash Ratio	0.48	0.45	0.50	0.98	0.14	0.48	0.21	0.33	0.76
Altman's Z-Score* (Bankruptcy Risk)	1.89	3.24	1.77	1.56	2.00	2.23	1.00	1.78	1.52
Free Cash Flow	1,635.35	2,960.00	293.00	216.78	3,489.00	1,026.00	(453.00)	2,381.00	3,170.00
Dividend Payout Ratio (%)	8.59	15.13	0.00	0.00	20.56	22.44	10.56	0.00	0.00
Sustainable Growth Rate (%)	22.15	19.83	12.00	16.00	26.08	14.76	_	27.90	38.45

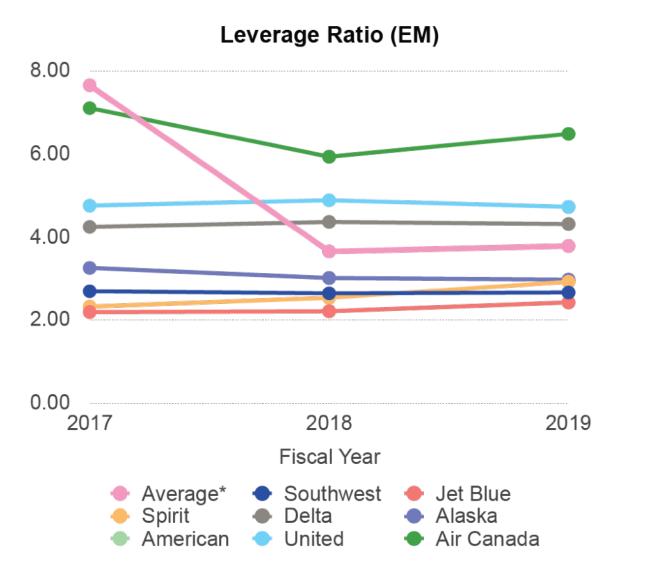
<sup>\*</sup>Note: calculated competitor average

#### **ROE**



#### **DuPont Analysis Split**





#### Table 4 - Profitability - ROE **Return on Equity** Average\* Southwest Southwest Average\* Average\* Southwest FY 2018 FY 2017 FY 2018 FY 2019 FY 2017 FY 2019 **Profitability** Normalized Return on Equity (%) 29.52 18.37 24.46 37.45 23.37 24.98

\*Note: calculated competitor average

Source: Calculations based on company and Bloomberg data.

Table 5 - Profitabilit	y - Net Income
------------------------	----------------

Net Income (Millions)	Southwest	Southwest	Southwest
	FY 2017	FY 2018	FY 2019
Profitability Net Income (Millions)	3,357	2,465	2,300

\*Note: calculated competitor average

Source: Calculations based on company and Bloomberg data.

Table 6 - Efficiency

	Southwest	Southwest	Southwest
	FY 2017	FY 2018	FY 2019
Accounts Receivables Turnover (ARTO)	35.01	35.72	27.12
Days Sales Outstanding (DSO)	10.43	10.22	13.46

\*Note: calculated competitor average

Source: Calculations based on company and Bloomberg data.

Table 7 - Debt (Leverage)

Debt	Average*	Average*	Average*	Southwest	Southwest	Southwest
	FY 2017	FY 2018	FY 2019	FY 2017	FY 2018	FY 2019
Debt Management (Leverage)						
Long Term Debt to Total Equity (%)	80.61	111.25	102.99	41.71	34.68	28.72

\*Note: calculated competitor average

Source: Calculations based on company and Bloomberg data.

Figure 3 – Southwest ROE 2017 - 2019

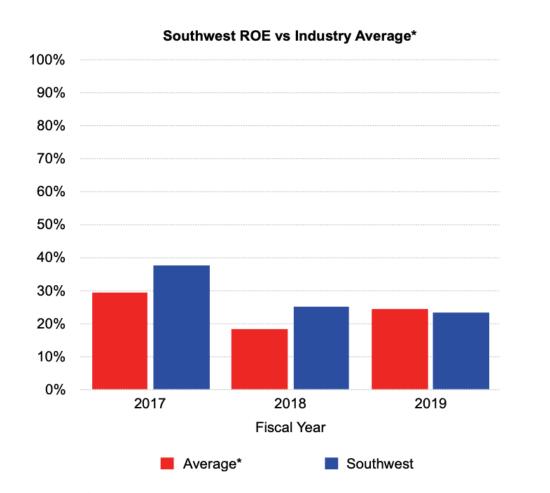
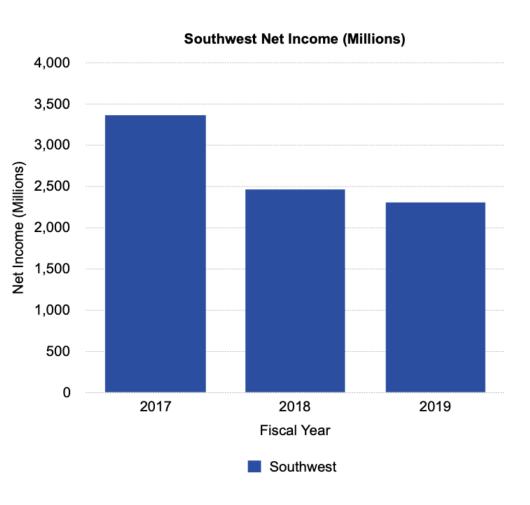


Figure 4 – Southwest Net Income 2017 - 2019



Note: Calculations based on company and Bloomberg Data.

Table 8 - Operating Profit

	Average*	Average*	Average*	Southwest	Southwest	Southwest
	FY 2017	FY 2018	FY 2019	FY 2017	FY 2018	FY 2019
Operating Profit per Available Seat Mile Including Fuel	0.57	0.14	0.58	1.32	1.06	0.83

\*Note: calculated competitor average

#### **Balance Sheet**

Source: Company Report

LUV US (Southwest) - Balance Sheet	(in millions)		
	31-Dec-17	31-Dec-18	31-Dec-:
ASSETS			
Current assets:			
Cash and cash equivalents	1,495	1,854	2,5
Short-term investments	1,778	1,835	1,5
Accounts and other receivables	662	568	1,0
Inventories of parts and supplies, at cost	420	461	5
Prepaid expenses and other current assets	460	310	2
Total current assets	4,815	5,028	5,9
Fixed assets:			
Property and equipment, at cost:			
Flight equipment	21,368	21,753	21,6
Ground property and equipment	4,399	4,960	5,6
Deposits on flight equipment purchase contracts	919	775	2
Assets constructed for others	1,543	1,768	1
Gross fixed assets	28,229	29,256	27,7
Less allowance for depreciation and amortization	9,690	9,731	10,6
Net fixed assets	18,539	19,525	17,0
Goodwill	970	970	9
Operating lease right-of-use assets	0	0	1,3
Other assets	786	720	5
Total long-term assets	20,295	21,215	19,9
-	-		
Total assets	25,110	26,243	25,8
LIABILITIES AND STOCKHOLDERS' EQUITY			
Current liabilities:			
Accounts payable	1,320	1,416	1,5
Accrued liabilities	1,700	1,749	1,7
Current operating lease liabilities	0	0	3
Air traffic liability	3,495	4,134	4,4
Current maturities of long-term debt	348	606	8
Total current liabilities	6,863	7,905	8,9
ong-term liabilities:			
Long-term debt <u>less</u> current maturities	3,320	2,771	1,8
Air traffic liability - noncurrent	1,070	936	1,0
Deferred income taxes	2,119	2,427	2,3
Construction obligation	1,390	1,701	1
Noncurrent operating lease liabilities	0	0	9
Other noncurrent liabilities	707	650	7
Total long-term liabilities	8,606	8,485	7,1
Total liabilities	15,469	16,390	16,0
Stockholders' equity:			
Common stock, \$1.00 par value:	808	808	8
2,000,000,000 authorized; 807,611,634 issued		550	
Capital in excess of par value	1,451	1,510	1,5
Retained earnings	13,832	15,967	17,9
Accumulated other comprehensive income (loss)	12	20	((
Treasury stock, at cost:	(6,462)	(8,452)	(10,44
219,060,856 in 2017	(0,402)	(0,432)	(10,44
219,060,836 in 2017 255,008,275 in 2018			
288,547,318 in 2019 Total stockholders' equity	0.641	0.053	0.0
	9,641	9,853	9,8
Total liabilities + equity	25,110	26,243	25,

recast from

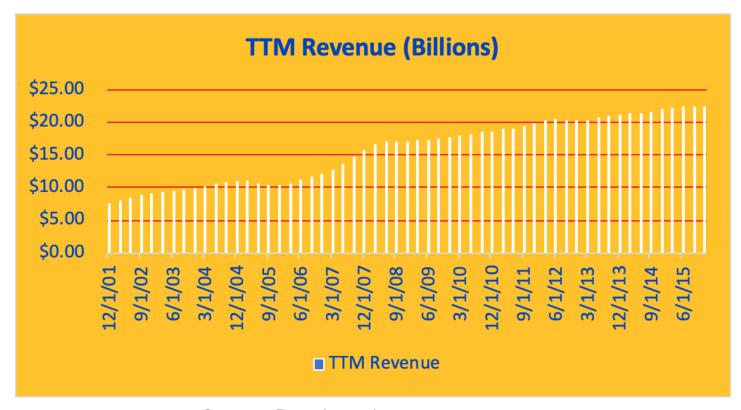
2018 from 2019 from 2019

#### **Income Statement**

LUV US (Southwest) - Income Statement	(in millions)		
	Year ended	Year ended	Year ended
	31-Dec-17	31-Dec-18	31-Dec-19
OPERATING REVENUES:			
Passenger	19,763	20,455	20,776
Freight	173	175	172
Other	1,210	1,335	1,480
Total operating revenues	21,146	21,965	22,428
OPERATING EXPENSES:			
Salaries, wages, and benefits	7,305	7,649	8,293
Fuel and oil	4,076	4,616	4,347
Maintenance materials and repairs	1,001	1,107	1,223
Landing fees and airport rentals	1,292	1,334	1,363
Depreciation and amortization	1,218	1,201	1,219
Other operating expenses	2,847	2,852	3,026
Total operating expenses	17,739	18,759	19,471
OPERATING INCOME (EBIT)	3,407	3,206	2,957
OTHER EXPENSES (INCOME):			
Interest expense	114	131	118
Capitalized interest	(49)	(38)	(36)
Interest income	(35)	(69)	(90)
Other (gains) losses, net	112	18	8
Total other expenses (income)	142	42	0
INCOME BEFORE INCOME TAXES	3,265	3,164	2,957
PROVISION (BENEFIT) FOR INCOME TAXES	(92)	699	657
NET INCOME	3,357	2,465	2,300
NET INCOME PER SHARE, BASIC	5.58	4.3	4.28
NET INCOME PER SHARE, DILUTED	5.57	4.29	4.27

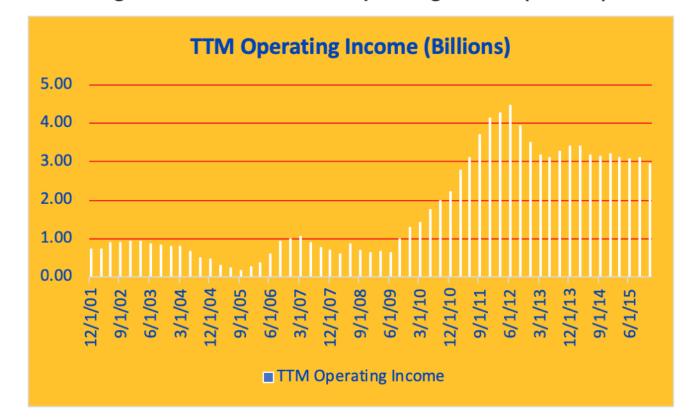
Source: Company Report

Figure 1 – Southwest TTM Revenue (Billions)



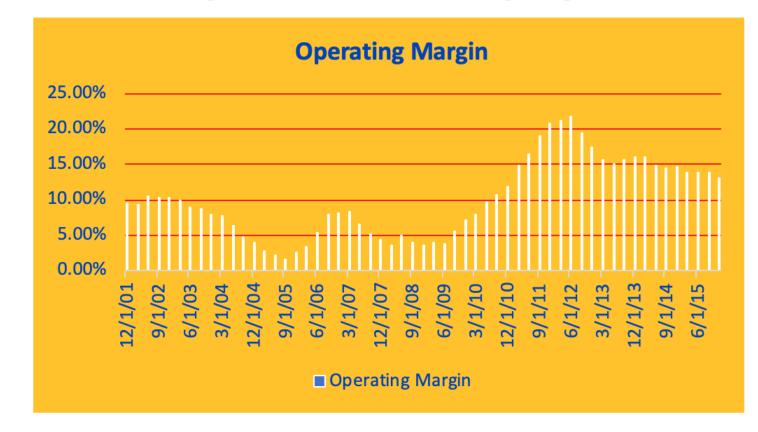
Source: Data based on Macrotrends.net

Figure 2 – Southwest TTM Operating Income (Billions)



Source: Data based on Macrotrends.net

Figure 3 – Southwest Operating Margin

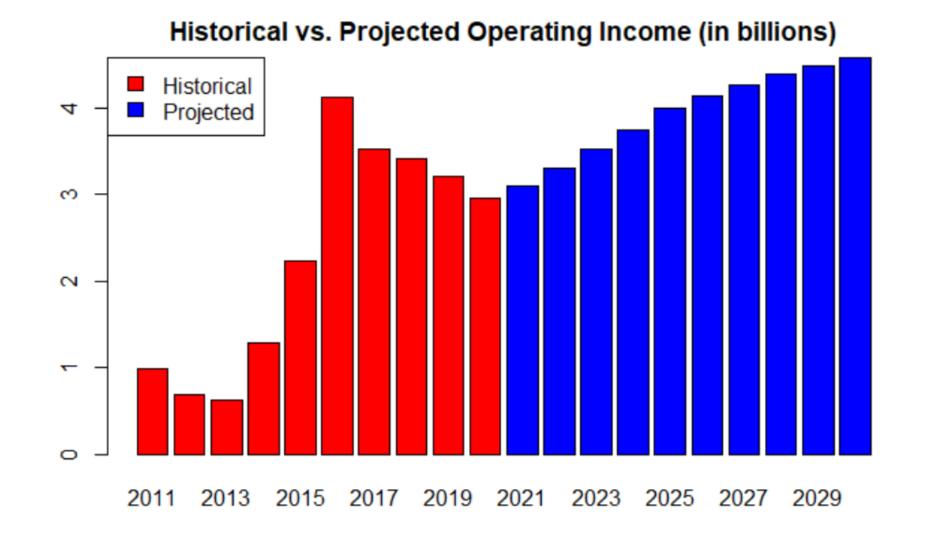


Source: Data based on Macrotrends.net

Table 1 - Operating Margin Ind.Average\* Ind.Average\* Ind.Average\* Southwest Southwest Southwest FY 2017 FY 2018 FY 2019 FY 2017 FY 2018 FY 2019 **Profitability** Operating Margin (%) 13.11 8.28 11.71 15.75 14.83 13.55

\*Note: Calculated competitor average

Figure 5 – Southwest Historical vs Projected Operating Income



#### FCFF Input / Assumptions

FCFF Inputs / Assumptions		
Revenue Growth Rate Expectation		
Date	TTM Revenue	
12/31/19	\$22.43	
12/31/18	\$21.97	2.09%
12/31/17	\$21.15	3.88%
12/31/16	\$20.29	4.24%
12/31/15	\$19.82	2.37%
12/31/14	\$18.61	6.50%
12/31/13	\$17.70	5.14%
12/31/12	\$17.09	3.57%
Avg 2012-2019 Annual Growth Rate		3.97%

Source: Data based on Macrotrends.net

Operating Margin Expectations	
Date	Operating Margin
12/31/19	13.18%
12/31/18	14.60%
12/31/17	16.11%
Avg Op Margin 2017-2019	14.63%

Source: Data based on Macrotrends.net

Calculations Base FCFF INPUT	ed on Balance S	heet	
Long-term liabilit	ies plus current	portion of long term debt.	
7,930	2019		
9,091	2018		
FCFF INPUT OUT	STANDING SHA	RES	
Issued Shares	807611634	OUTSTANDING SHARES	in millions
TS 2019	-288547318	519064316	519
TS 2018	-255008275	552603359	553

Source: Balance sheet (refer to Part One Appendix 1)

<b>Calculations Based on Income Statement</b>		
FCFF INPUTS		
Effective Tax Rate		
	22.22%	2019
	22.09%	2018

Source: Income Statement (refer to Part One Appendix 2)

Excel Sheet Input / Drivers			
Country of incorporation	United		
,	States		
Industry (US)	Air		
	Transport		
Industry (Global)	Air	Last 10K	Years since las
	Transport		10
Revenues	\$22,428.00	\$21,965.00	
Operating income or EBIT	\$2,957.00	\$3,206.00	
Interest expense	\$118.00	\$131.00	
Book value of equity	\$9,832.00	\$9,853.00	
Book value of debt	\$7,930.00	\$9,091.00	
Do you have R&D expenses to capitalize?	No		
Do you have operating lease commitments?	Yes		
Cash and Marketable Securities	\$2,548.00	\$1,854.00	
Number of shares outstanding =	519		
Current stock price =	\$37.66		
Effective tax rate =	22.21%		
Marginal tax rate =	25.00%		
The value drivers below:			
Compounded annual revenue growth rate over next 5 years =	3.97%	Growth Lever	
Target pre-tax operating margin (EBIT as % of sales in year 10) =	14.67%	Profitability Lever	
Year of convergence	5	Speed of convergence level	
Sales to capital <u>ratio</u> (for computing reinvestment) =	1.5	Efficiency of Growth Lever	
Market numbers			
Riskfree rate	0.92%		
Initial cost of capital =	9.33%		
Other inputs			
Do you have employee options outstanding?	No		
Standard deviation on stock price =	43.00%		

Addition of Operating Leases to Final Outputs				
Inputs				
Operating lease expense in current year =			\$256.0	0
Operating Lease Commitments (From footnote to financials)				
Year	Commitment			
1	398			
2	398			
3	205			
4	205			
5	661			
6 and beyond	661			
Output				
Pre-tax Cost of Debt =		3.93%		
Number of years embedded in vr.6 estimate =			2	
Converting Operating Leases into debt				
Year	Commitment	Present Value		
1	\$398.00	\$382.95		
2	\$398.00	\$368.47		
3	\$205.00	\$182.61		
4	\$205.00	\$175.71		
5	\$661.00	\$545.13		
6 and beyond	\$330.50	\$514.60		
Debt Value of leases =		\$2,169.46		
Restated Financials				
Depreciation on Operating Lease Asset =				\$309.92
Adjustment to Operating Earnings =				(\$53.92)
Adjustment to Total Debt outstanding =				\$2,169.46
Adjustment to Depreciation =				\$309.92

35

#### FCFF output / results

Table 2 - Comparison Data			
	Southwest	Industry (US data)	Industry (Global data)
Revenue growth in the most recent year =	2.11%	4.84%	7.14%
Pre-tax operating margin in the most recent year =	12.94%	11.60%	8.46%
Sales to capital ratio in most recent year =	1.29	1.5	1.01
Return on invested capital in most recent year=	12.99%	13.69%	6.64%
Standard deviation in stock prices =	43.00%	31.74%	30.61%
Cost of capital =	9.33%	5.86%	5.78%
Revenues in year 10 (in Millions)	\$31,887		
Pre-tax Operating Income in year 10 based on operating margin = (in Millions)	\$4,678		
Return on invested capital in year 10 based on sales/capital ratio =	14.78%		

Table 3 - Valuation Output												
Southwest	Base	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Terminal
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
Revenue Growth Rate (%)		3.97%	3.97%	3.97%	3.97%	3.97%	3.58%	3.18%	2.79%	2.39%	2.00%	2.00%
FCFF (in Millions)		\$1,816.98	\$1,954.22	\$2,099.49	\$2,253.22	\$2,415.84	\$2,547.96	\$2,676.77	\$2,801.03	\$2,919.49	\$3,030.91	\$2,806.68
PV of <u>FCFF (</u> in Millions)		\$1,661.90	\$1,634.86	\$1,606.47	\$1,576.94	\$1,546.44	\$1,499.43	\$1,455.59	\$1,414.73	\$1,376.70	\$1,341.36	

Terminal Growth Rate is 2.0%

### **RISK and Return Analysis**

#### **Analysis**

Table 1 - Historical Data			
	1107	NENA	C 0 D E 00
	LUV	NEM	S&P 500
Average Historical Return	1.72%	0.69%	0.98%
Historical Standard Deviation	8.31%	10.17%	3.58%

Source: Based on Yahoo Finance

Table 2 - Matrix			
Correlation Matrix (standardized)			
	LUV	NEM	S&P 500
LUV	1.0000		
NEM	-0.1196	1.0000	
S&P 500	0.5178	-0.0220	1.0000

#### Covariance Matrix (unstandardized)

	LUV	NEM	S&P 500
LUV	0.006842		
NEM	-0.001002	0.010260	
S&P 500	0.001525	-0.000079	0.001268

Table 3 – LUV Regression Summary											
LUV											
	Coefficients	Standard Error	t Stat	P-value							
Intercept	0.005389829	0.006758119	0.797533817	0.426743033							
S&P 500	1.202785095	0.182915939	6.575616657	1.38626E-09							

Table 4 - NEM Regression Summary										
NEM										
	Coefficients	Standard Error	t Stat	P-value						
Intercept	0.007524887	0.009671824	0.778021498	0.43811355						
S&P 500	-0.0625508	0.261778555	-0.23894547	0.81156237						

Table 5 - Historical Return vs Calculated Required Return										
	LUV	NEM	S&P 500							
Average Historical Return Average Calculated Required Return	1.72% <b>1.14%</b>	0.69% <b>0.15%</b>	0.98%							

		*data from macrotrends.net													*data from ycharts.com   Toronto Stock Exchange										
10-vear Quarterly	S	outhwest (LUV)			JetBlue (JBLU)			Spirit (SAVE) Delta (DAL)			Alaska (ALK)		American (AAL)			United (UAL)			Air Canada (AC.TO)		4				
																						Stock			4
Date	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Price	EPS	PE Ratio	4
4/17/20	31.19	\$4.28	7.29	8.98	\$1.92	4.68	13.35	\$4.89	2.73	24.27	\$7.31	3.32	29.93	\$6.20	<u>4.83</u>	11.57	\$3.81	3.04	29.08	\$11.63	2.5	18.15	\$5.50	<u>3.3</u>	
12/31/19	53.98	\$0.97	12.61	18.72	\$0.55	9.75	40.31	\$1.18	8.24	58.48	\$1.69	7.99	67.75	\$1.45	10.93	28.68	\$0.93	7.53	88.09	\$2.48	7.57	48.51	\$0.58	8.901	4
9/30/19	54.01	\$1.23	12.08	16.75	\$0.63	8.77	36.3	\$1.22	7.19	57.6	\$2.31	8.11	64.91	\$2.60	13.17	26.97	\$0.96	7.6	88.41	\$3.99	8.19	43.21	\$2.35	12.17	1
6/30/19	50.78	\$1.37	11.75	18.49	\$0.59	12.84	47.73	\$1.67	9.09	56.75	\$2.21	8.47	63.91	\$2.11	15.66	32.61	\$1.49	9.79	87.55	\$4.02	8.87	39.69	\$1.26	10.58	
3/31/19	51.91	\$0.70	12.30	16.36	\$0.14	34.81	52.86	\$0.82	14.13	51.65	\$1.09	8.67	56.12	\$0.03	15.9	31.76	\$0.41	10.38	79.78	\$1.09	9.58	32.21	\$1.26	15.19	4

Southwest 2020 EPS	\$ 4.28			
Growth Rate (From Part 2)	3.97%	historical growth		
Southwest Expected EPS	\$ 4.45			
2020 Avg PE Ratio	3.49			
Expected MKT PRICE	\$ 15.51			
Range	HIGH PE	\$21.49	LOW PE	\$11.12
Conclusion	Overvalued			
\$31.19 > \$15.51				

Company	P/E	EV/EBITDA		
Jetblue	4.68	3.21		
Spirit	2.73	4.64		
Delta	3.32	3.25		
Alaska	4.83	3.60		
American	3.04	6.42		
United	2.50	3.35		
Air Canada	3.30	2.93		
Average	3.49	3.91		
High	4.83	6.42		
Low	2.50	2.93		
Southwest	7.29	3.78		
Implied Prices for Southwest				
Average Price	\$ 15.51			
High Price	\$ 21.49			
Low Price	\$ 11.12			

	*data from macrotrends.net										*data from	ycharts.com   1	Toronto Stock Ex	xchange											
10-year Quarterly	S	outhwest (LU\	<b>/</b> )		JetBlue (JBLU)			Spirit (SAVE)			Delta (DAL)			Alaska (ALK)		Α	merican (AAL)			United (UAL)		Air	Canada (AC.TC	O)	
																						Stock			
Date	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Stock Price	EPS	PE Ratio	Price	EPS	PE Ratio	
3/31/20	35.61	\$3.58	9.95	8.95	\$1.78	5.03	12.89	\$4.07	3.17	28.53	\$6.23	4.58	28.47	\$6.17	4.61	12.19	-1.86	-	31.55	\$3.68	8.57		\$0.19		
TTM/4		\$0.90			\$0.45			\$1.02			\$1.56			\$1.54						\$0.92					

Southwest 2020 Q1 EPS	\$ 0.90				
Growth Rate	0.00%				
Southwest Expected EPS	\$ 0.90				
2020 Avg PE Ratio	5.19				
Expected MKT PRICE	\$ 18.59				
Range	HIGH Price Per		LOW Price Per		
	Share	\$30.68	Share	\$11.35	
Conclusion	Overvalued				
\$35.61 > \$18.59					

Company	P/E	EV/EBITDA
Jetblue	5.03	5.00
Spirit	3.17	6.68
Delta	4.58	5.74
Alaska	4.61	6.70
American	-	7.33
United	8.57	5.73
Air Canada	-	3.84
Average	5.19	5.86
High	8.57	7.33
Low	3.17	3.84
Southwest	9.95	6.67
Implied Prices for Southwest		
Average Price	\$ 18.59	
High Price	\$ 30.68	
Low Price	\$ 11.35	

J	
Table 9 - WACC Calculations	('\
Mandant Values of CE and Dalet	(in millions)
Market Values of SE and Debt	
Market Value of bonds - Calculated	\$1,427.31
Market Value of Equity - Calculated	\$15,778.48
tax rate	22.21%
1-TR	77.79%
LUV Beta	1.2028
Rate of Debt (YTM)	3.59%
Rate of Equity (Req. Return Part 3)	13.68%
Price/Share as of April 20, 2020	\$31.06

Total Debt	
MV of bonds and Debentures	\$1,427.31
Contractual Obligations expected 2020	3,626
Air traffic liability - noncurrent	\$1,053.00
Deferred income taxes	\$2,364.00
Construction obligation	\$164.00
Noncurrent operating lease liabilities	\$978.00
Other noncurrent liabilities	\$706.00
Total Debt	\$10,318.31

WACC Calculations (End of 2019)	
V=D+E	\$26,096.79
E/V (Weight of Equity)	60.46%
D/V (Weight of Debt)	39.54%
New WACC estimate	9.38%

#### Table 11 - Projected Growth Rates (From Part Two) Southwest Year 1 Year 2 Year 3 Year 4 Year 7 Year 9 Year 10 Terminal Year 5 Year 6 Year 8 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 Revenue Growth Rate (%) 3.97% 3.97% 3.97% 3.97% 3.97% 3.58% 3.18% 2.79% 2.39% 2.00% 2.00%

Table 12 - Cash Flows											
Southwest (in millions)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Terminal
Revenues	\$23,318	\$24,244	\$25,207	\$26,207	\$27,248	\$28,222	\$29,120	\$29,932	\$30,649	\$31,262	\$31,887
Operating Margin %	13.29%	13.63%	13.98%	14.32%	14.67%	14.67%	14.67%	14.67%	14.67%	14.67%	14.67%
EBIT	\$3,099	\$3,306	\$3,524	\$3,754	\$3,997	\$4,140	\$4,272	\$4,391	\$4,496	\$4,586	\$4,678
EBIT (1-t)	\$2,411	\$2,571	\$2,741	\$2,920	\$3,109	\$3,198	\$3,275	\$3,342	\$3,397	\$3,440	\$3,508
Reinvestment	\$594	\$617	\$642	\$667	\$694	\$650	\$599	\$541	\$478	\$409	\$702
FCFF	\$1,817	\$1,954	\$2,099	\$2,253	\$2,416	\$2,548	\$2,677	\$2,801	\$2,919	\$3,031	\$2,807

Table 13 - Pi	able 13 - Present Value of Cash Flows									
Southwest	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
(in millions)										
PV (FCFF)	\$1,672.63	\$1,656.05	\$1,637.81	\$1,618.09	\$1,597.05	\$1,556.54	\$1,516.92	\$1,478.20	\$1,440.36	\$1,403.38

Table 10 - Long Term Debt to Total E	Table 10 - Long Term Debt to Total Equity Ratio - FY 2019 (From Part One)									
In Millions of USD except Per Share	Average*	Southwest	Jet Blue	Spirit	Delta	Alaska	American	United	Air Canada	
	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019	FY 2019	
Debt Management (Leverage)										
Long Term Debt to Total Equity (%)	102.99	28.72	55.85	140.56	92.25	62.41	_	158.80	182.36	

508

\*Note: calculated competitor average

Share outstanding as of April 20, 2020

Table 14 - The Value	
Terminal value	\$61,658
PV(Terminal value)	\$28,549
PV (CF over next 10 years)	\$15,577
Value of operating assets =	\$44,126
Adjustment for distress	\$-
- Debt & Mnority Interests	\$10,099
+ Cash & Other Non-operating assets	\$2,548
Value of equity	\$36,575
- Value of equity options	\$-
Number of shares	508
Value per share	\$72.00

Based on 589(NOW) shares			Total Equity					
, ,	Total Debt			\$ 14,683.77	\$ 14,866.36	\$ 24,313.92		
		we are using now (2019)	\$ 10,318.31		9.22%			
		PESSIMISTIC DEBT ASSUMPTION	\$ 20,260.54	7.37%				
		OPTIMISTIC DEBT ASSUMPTION	\$ 16,466.31			9.28%		
D   5450				Total Equity				
Based on 515 Shares				¢ 12 929 05	¢ 12 000 C0	¢ 24 250 20		
	Total Debt	we are using now (2019)	\$ 10,318.31	\$ 12,838.95	\$ 12,998.60 8.86%	\$ 21,259.20		
		PESSIMISTIC DEBT ASSUMPTION	\$ 20,260.54	7.02%				
		OPTIMISTIC DEBT ASSUMPTION	\$ 16,466.31			8.93%		
				Total Equity				
Based on 750 Shares								
			<u> </u>	\$ 18,697.50	\$ 18,930.00	\$ 30,960.00		
	Total Debt	we are using now (2019)	\$ 10,318.31		9.84%			
		PESSIMISTIC DEBT ASSUMPTION	\$ 20,260.54	8.02%				
		OPTIMISTIC DEBT ASSUMPTION	\$ 16,466.31			9.90%		

6.98%									
8.33%			Now	18.44	25.24	-25%	overvalued	short term ou	tlook
	The	The number of shares		value per share					
	515M	589M	750M	Ginzu Vps	Market Price	Growth			
Now (May-12-2020 23:33)		9.22%		49.18	25.24	0%	undervalued	long term out	look
Optimistic	8.93%			57.29		0%			
Pessimistic			8.02%	8.88		-75%			
		Optimistic	Pessimistic	Today LT	Today ST				
	Growth	0%	-75%	0%	-25%				
	Wacc	8.93	8.02	9.22	9.22				
	Value/Share	57.29	8.88	49.18	18.44				

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