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Freight Transportation | North America

Fast Lane: USPS Rate Increase, IAM Rail Union Agreement, & Spot vs. Contract Behavior Enters Unusual Territory

Last Week, parcel players introduced new rate increases for the holiday season and the IAM reached a second tentative agreement with rail carriers. Spot rates also continue their decline past contract rates, contrary to past cycles.

The U.S. Postal Service introduces rate increases for the holiday season. The new rates will apply to commercial and retail customers from October 2nd until January 22, 2023. The USPS filed notice on August 10th with the Postal Regulatory Commission to increase prices for key products inline with previous years. Depending on delivery zone and package weight, these new prices will raise Priority Mail and Priority Mail Express services by \$0.25 to \$6.50 per package. First-Class Package Service, Parcel Select Ground, and USPS Retail Ground services will increase by \$0.25 to \$5.85 per package. The price range increase is less than competitors FDX and UPS, who announced prices increases earlier this month, and in addition to already discounted regular rates. Parcel players, OnTrac and DHL, have also announced peak season home delivery surcharges. Similarly to FDX and UPS, OnTrac will apply a surcharge ranging from \$1.25 to \$6.00 based on a customer's excess package volume beyond a June 2022 baseline. DHL's eCommerce Solutions introduced surcharges for SmartMail products up to \$6.25 per product and aligned with USPS peak pricing, which makes sense considering they rely on USPS for final-mile delivery.

The International Association of Machinists and Aerospace Workers (IAM)

District 19 has reached a tentative agreement with rail carriers, after the union rejected the first deal. IAM District 19 represents ~4,900 locomotive machinists, track equipment mechanics, and facility maintenance personnel who rejected an initial agreement on Sep 14. The updated tentative agreement incorporates PEB recommendations including an immediate increase in wages of 14% and compounded increase of 24% over the 5-year term along with additional incentives such as a cap on healthcare costs, provisions for travel lodgings and expenses and a joint study on overtime policies. The agreement will be promptly shared with he rank and file and extends the cooling-off period to Dec 9. With this agreement, all unions are in the process of ratifying or have ratified agreements, although ratification risk still remains for carriers. The ability to avert a rail strike is a positive for our Rail coverage who already faced slight disruptions in preparation for a potential strike in early September, but the

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Please see links below to other research we published last week:

TechTrack: SNDR/Torc Level 4 AV Testing, WERN/Kodiak AV Trucking Lane, Biden's Electric Vehicle Infrastructure Deployment Plans, FAA Drone & Vertiport Approvals, Omnichannel Partnerships & More... (30 Sep 2022)

Truck Stop/TLFI: Falling In Line (28 Sep 2022)

The Frequent Flyer: Amazon Air Dials Back Cargo Operations, UAL Grounds BA 777S, LUV Announces Leadership Change & Biden Announces New Airline Regulations (27 Sep 2022)

FedEx Corporation: The Search for Normalized (and Floor) EPS and Multiple Continues; Cutting PT to \$125 (27 Sep 2022)

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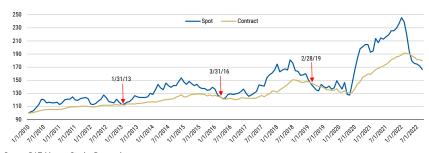


heightened labor costs may exceed the Rails expectations as stated by NSC.

Spot prices have continued their decline past contract prices, unlike previous cycles. As exemplified by the chart below, spot rates have bounced back up the last three times they have "touched" contract rates, with the most recent example from 2019. Spot and contract rates both began their decline in January of 2022, similar to prior cycles, but spot rates declined rapidly and surpassed contract rates in April. Throughout 3Q22, spot rates accelerated their declines and fell on a YoY basis each month while contract rates trended higher YoY until falling slightly in September. This unusual trend follows an unprecedented cycle in which spot rates shot up during one of the tightest truck markets in history. Perhaps, the relatively stable change in contract rates represent a "new normal" in which they are more resilient than spot. Additionally, spot could have "normalized" more than usual after over earning throughout the upcycle.

However, the chart demonstrates that there may not much more downside left in the spot market, potentially signaling we could be nearing the bottom of the cycle.

Exhibit 1: Spot and Contract Rates indexed to 1/1/2010: Our chart indicates three cycles of ~3 years each and historically the spot rate line bounces each time it "touches" the contract rate line; now we enter unchartered territory with spot haven broken through contract.



Source: DAT, Morgan Stanley Research



Freight Transportation Research Collections















Freight Catalyst Calendar

September 2022

September 20-24: Cathay Pacific expected to release August Cargo Data

September 20-24: STB to release August Class I Rail Employee Data

September 20-24: ATA preliminary August Truck Tonnage Index Release

September 21: Morgan Stanley Proprietary TLFI bi-weekly update

September 27: Class I rails release weekly rail traffic

September 28: Morgan Stanley Truckload Sentiment Survey (TLSS) bi-weekly update

October 2022

October 4: Class I rails release weekly rail traffic

October 4: ACT Releases preliminary Class 8 Truck Net Orders for September

October 5: Morgan Stanley Proprietary TLFI bi-weekly update

October 11: Class I rails release weekly rail traffic

October 12: Morgan Stanley Truckload Sentiment Survey (TLSS) bi-weekly update

October 18-22: September Cass Freight Index data released

October 18-22: Ports expected to release September Container Data

October 18-22: Cathay Pacific expected to release September Cargo Data

October 18-22: STB to release September Class I Rail Employee Data

October 18-22: ATA preliminary September Truck Tonnage Index ReleaseOctober 19: Morgan Stanley Proprietary TLFI bi-weekly update

October 25: Class I rails release weekly rail traffic

October 26: Morgan Stanley Truckload Sentiment Survey (TLSS) bi-weekly update



U.S. Coverage Rankings

Exhibit 2:

				Market	Current	MS	Upside to	EPS (2	2022e)	Valuati	on (2022e)	Cor	nsensual	ity
			Company	Cap (\$bn)	Price	PT	PT (%)	MS	Cons	P/E	EV/EBITDA	OW	EW	UW
1	AV Truck	WO	tu simple	1.7	7.56	35	363%	-\$1.72	-\$2.31	NM	NM	80%	20%	0%
			KNIGHT	8.0	49.78	85	71%	\$5.42	\$5.38	9.2x	4.5x	81%	14%	5%
		WO	WERNER	2.5	38.84	73	88%	\$3.70	\$3.87	10.4x	4.6x	47%	41%	12%
	load	0	TFI	8.3	94.28	131	39%	\$8.09	\$7.85	11.6x	6.8x	92%	8%	0%
2	Truckload		SCHNEIDER	3.8	21.07	39	85%	\$2.66	\$2.66	7.9x	3.2x	47%	33%	20%
		>	<i>U.S. XPRESS, INC.</i>	0.1	2.48	5	102%	\$0.09	-\$0.02	NM	9.3x	0%	60%	40%
		EW	II STATE OF THE PARTY OF THE PA	1.2	14.60	17	16%	\$1.13	\$1.12	13.1x	6.5x	14%	71%	14%
	an- ad	OW	ArcBest	1.8	74.32	140	88%	\$14.11	\$14.21	5.3x	3.3x	60%	40%	0%
3	Less-than- Truckload	EW	(6)	28.4	254.18	314	24%	\$11.78	\$11.78	21.6x	13.7x	29%	62%	10%
	Ę	N N	SAIA	5.1	194.65	195	0%	\$13.90	\$13.88	14.1x	7.9x	56%	38%	6%
	et	ow	XPOLogistics	5.2	44.99	75	67%	\$5.81	\$5.79	7.8x	5.3x	88%	13%	0%
	Asset-Light / Non-Asset	EW	J.B. HUNT	17.2	165.28	170	3%	\$8.83	\$9.65	18.3x	11.3x	65%	31%	4%
4	Nor	ш	Hub Group	2.5	71.03	92	30%	\$10.08	\$10.39	7.0x	4.1x	60%	40%	0%
	Light		Expeditors*	14.8	90.47	94	4%	\$7.22	\$8.11	12.5x	7.9x	19%	56%	25%
	sset-	8	LANDSTAR 🖈	5.3	145.75	120	(18%)	\$11.27	\$11.79	12.9x	8.4x	0%	86%	14%
	٩		C.H. ROBINSON	12.2	98.73	66	(33%)	\$8.15	\$8.87	11.1x	8.9x	38%	50%	12%
		>	2	76.1	150.61	154	2%	CAD 7.10	CAD 7.15	20.9x	14.4x	19%	76%	5%
_	<u>s</u>	EW	PACIFIC	124.4	199.20	207	4%	\$11.14	\$11.68	17.5x	13.2x	55%	45%	0%
5	Rails	NN	CSX NO TEMORITOR MARTE	58.2	27.19	25	(8%)	\$1.78	\$1.86	14.9x	10.0x	67%	30%	4%
		ם	NORFOLK SOUTHERN	50.4	214.55	196	(9%)	\$13.44	\$13.64	16.1x	11.2x	44%	48%	7%
6	Parcel	EW	FedEx	39.6	152.31	125	(18%)	\$12.70	\$14.46	10.5x	5.3x	52%	48%	0%
	Pal	MN	ups	143.6	165.32	148	(10%)	\$12.58	\$12.86	13.3x	9.4x	50%	43%	7%

Source: Company Data, Refinitiv, Morgan Stanley Research Note: FDX EPS and Valuation Metrics are for FY2023e



Transportation Comp Sheet

Notes to Transport Comp Sheet

- + Rating and price target for this company have been removed from consideration in this report because, under applicable law and/or Morgan Stanley policy, Morgan Stanley may be precluded from issuing such information with respect to this company at this time
- * All consensus estimates are based on Refinitiv
- "-" signifies that there is insufficient data for a metric or that a result is not meaningful
- a Mkt Cap and EV are shown in USD (Except CNR & CP which are in CAD)
- b Adj. EV = Mkt Cap + Adj. Net Debt, where balance sheet metrics are a weighted average of annual data to target the most recent period
- c Adj. Net Debt includes capitalized operating leases, based on the 7x convention
- d Adj. Upside = Base Case upside / the Range of the Bull and Bear Cases
- e Italicized numbers in "Avg/Sum" row are sums, all others are averages
- f EBITDAR includes annual rent expense for companies where noted, consensus EBITDAR is calculated based on Refinitiv consensus data for EBITDA + MS annual Rent Expense
- g Net Interest Expense includes annual Rent Expense
- h Adj. Assets (used in ROA calc), like Adj. Debt and Adj. Net Debt, have been adjusted for off-balance sheet assets per 7x rent convention and excludes cash and short- and long-term investments
- i ROIC is calculated as Net Income / (Equity + Adj. Debt)
- j FDX's fiscal years do not align with the calendar year
- All metrics are shown in USD (Except CNR & CP which are in CAD)
- NOTE: FDX annual and quarterly financials and estimates are calendarized, not based of Fiscal Year.



Exhibit 3: Recent Stock Performance and Trading Detail Summary

9/29/2022	Current	3 Yr.	Avg Daily	% of Float	Mkt Cap	Price C	hg		Pric	e Returns	3					Short Interest Day	/s Out	
MW Ticker	Price	Beta	\$M Traded	Traded/Day	(\$Bil.)a	YTD Chg	Rank	1-Wk	Rank	1-Mo	Rank	3-Mo	Rank	Current	Rank	52wk High - Low	52wk High	52wk Low
Rails - Analy	st: Ravi Sh	nanker																
CNR	\$150.61	0.68	169	0.2%	104.10	-3%	8	0%	24	-2%	12	5%	7	4.0	14	5.9 - 0.9	5.9	0.9
CSX	\$27.19	0.99	500	0.6%	58.22	-28%	19	-2%	26	-13%	25	-5%	24	1.1	21	2.3 - 1.1	2.3	1.1
NSC	\$214.55	1.01	304	0.6%	50.39	-28%	20	-1%	25	-11%	22	-5%	23	1.5	20	3.4 - 1.5	3.4	1.5
UNP	\$199.20	0.98	624	0.5%	124.40	-21%	16	-2%	27	-10%	20	-5%	25	1.6	19	3.9 - 1.6	3.9	1.6
Avg/Sum		0.92		0.5%	451.26	-20%		-1%		-9.0%		-2%		2.0		3.9 - 1.3	3.9	1.3
Parcel/Airfre	ight - Anal	yst: Ra	vi Shanker															
FDX	\$152.31	0.96	835	1.1%	39.63	-41%	24	2%	13	-29%	28	-34%	28	0.6	22	3.2 - 0.6	3.2	0.6
UPS	\$165.32	0.83	580	0.4%	143.80	-23%	18	1%	17	-14%	27	-8%	27	3.6	15	6.5 - 1.8	6.5	1.8
Avg/Sum		0.89		0.7%	183.44	-32%		1%		-21.5%		-21%		2.1		4.9 - 1.2	4.9	1.2
Logistics - A	nalyst: Ra	vi, Sha	nker															
CHRW	\$98.73	0.56	137	1.1%	12.23	-8%	9	1%	16	-13%	26	-2%	19	8.7	2	12.3 - 6.5	12.3	6.5
EXPD	\$90.47	0.88	151	0.8%	14.80	-33%	22	3%	8	-12%	24	-8%	26	2.7	17	4.4 - 1.9	4.4	1.9
HUBG	\$71.03	0.83	19	0.7%	2.46	-16%	11	4%	5	-11%	21	0%	10	4.1	13	6.8 - 1.9	6.8	1.9
JBHT	\$165.28	0.92	135	0.7%	17.16	-19%	15	3%	10	-4%	15	6%	6	3.4	16	4.8 - 1.1	4.8	1.1
LSTR	\$145.75	0.66	55	0.8%	5.31	-19%	14	2%	12	0%	9	0%	11	6.7	6	10.7 - 2.7	10.7	2.7
XPO	\$44.99	1.90	68	1.6%	5.18	-42%	25	5%	4	-12%	23	-5%	22	2.3	18	3.5 - 1.2	3.5	1.2
Avg/Sum		0.96		0.9%	57.14	-23%		3%		-8.8%		-1%		4.6		7.1 - 2.5	7.1	2.5
Intelligent Tr	rucking - A	nalyst:	Ravi Shanke	er														
TSP	\$7.56		19	1.0%	1.70	-79%	28	6%	3	12%	1	11%	2	4.1	12	7.8 - 2.1	7.8	2.1
Truckload - A	Analyst: Ra	avi Sha	nker															
HTLD	\$14.60	0.62	4	0.4%	1.15	-13%	10	3%	9	-4%	13	5%	8	4.4	9	5.7 - 2.5	5.7	2.5
KNX	\$49.78	0.80	96	1.2%	8.00	-18%	12	4%	6	-1%	11	8%	3	4.9	8	7.3 - 3	7.3	3.0
SNDR	\$21.07	0.62	12	0.3%	3.75	-22%	17	1%	15	-6%	18	-4%	21	6.9	4	10.2 - 2.6	10.2	2.6
USX	\$2.48	1.57	0	0.6%	0.13	-58%	27	-4%	28	4%	2	-4%	20	15.6	1	15.6 - 1.4	15.6	1.4
WERN	\$38.84	0.66	21	1.1%	2.46	-19%	13	2%	14	-1%	10	2%	9	6.8	5	9.3 - 3	9.3	3.0
TFII	\$94.28	1.20	21	0.2%	11.39	257%	11	4%	7	-4%	16	19%	1	5.3	7	5.3 - 1.3	5.3	1.3
Avg/Sum		0.91		1%	4.48	21%		1%		-2%		4%		7.3		7.6 - 2.3	7.6	2.3
Less-Than-T	ruckload -	Analys	st: Ravi Shan	ker														
ARCB	\$74.32	1.25	17	1.1%	1.82	-38%	23	6%	2	-7%	19	7%	4	7.7	3	9 - 1.8	9.0	1.8
ODFL	\$254.18	1.05	232	0.7%	28.41	-29%	21	2%	11	-6%	17	0%	18	4.3	10	5.3 - 1.4	5.3	1.4
SAIA	\$194.65	1.27	104	1.1%	5.14	-42%	26	6%	1	-4%	14	6%	5	4.2	11	7.5 - 2.4	7.5	2.4
Avg/Sum		1.19		1.0%	35.37	-36%		5%		-5.3%		4%		5.4		7.3 - 1.9	7.3	1.9



Exhibit 4: Valuation Metrics (Consensus Estimates)

9/29/2022	Cons	. P/E	Ratio*	Cons. 3yr	Cor	ns. EPS I	Est.*	PEG	Ratio	Cons. EV	/ EBITDA(F	R)f Ratio*		Cons. I	EV / Sale	s Ratio*	P/I	BV
MW Ticker	2022	TMF	2023	EPS CAGR	2022	NTM	2023	TMF	Rank	2022	TMF	2023	2021	2022	TMF	2023	2022	2023
Rails - Analy	st: Ravi	Shanl	ker															
CNR	21.1	19.6	19.1	8%	\$7.15	\$7.70	\$7.89	2.4	22	14.3	13.8	13.6	8.52	7.25	7.08	7.03	4.65	4.37
CSX	14.5	14.0	13.8	32%	\$1.87	\$1.95	\$1.97	0.4	7	10.6	10.1	10.0	6.32	5.37	5.15	5.07	3.52	2.92
NSC	15.7	14.8	14.4	22%	\$13.69	\$14.47	\$14.89	0.7	13	11.1	11.0	11.0	5.97	5.38	5.40	5.41	4.27	4.11
UNP	17.0	16.3	15.8	19%	\$11.71	\$12.21	\$12.63	0.9	16	13.1	12.8	12.7	7.53	6.70	6.64	6.63	11.42	10.13
Avg/Sum	17.1	16.2	15.8	20%				1.1		12.3	11.33	11.8	7.09	6.18	5.73	6.03	6.41	5.72
Parcel/Airfre	ight - Aı	nalyst:	Ravi S	hanker														
FDX	7.4	9.6	10.0	13%	\$20.50	\$15.86	\$15.24	0.8	15	5.8	3.2	2.4	1.05	0.94	0.93	0.92	1.46	1.37
UPS	12.9	12.9	12.7	9%	\$12.86	\$12.84	\$13.01	1.4	20	9.4	9.2	9.1	1.73	1.57	1.53	1.52	7.34	6.79
Avg/Sum	10.1	11.2	11.4	11%				1.1		7.6	6.2	5.8	1.39	1.26	1.23	1.22	4.40	4.08
Logistics - A	nalyst:	Ravi, S	Shanke	r														
CHRW	11.1	13.0	14.8	7%	\$8.88	\$7.58	\$6.65	1.8	21	9.2	11.2	11.9	0.63	0.56	0.61	0.63	5.39	5.61
EXPD	11.2	13.3	15.8	14%	\$8.11	\$6.83	\$5.72	1.0	18	8.3	10.6	11.4	0.99	0.87	1.06	1.12	3.87	4.22
HUBG	6.8	8.1	9.1	15%	\$10.40	\$8.78	\$7.81	0.5	11	4.3	4.8	5.0	0.63	0.46	0.44	0.43	1.44	1.25
JBHT	17.1	17.0	16.6	13%	\$9.67	\$9.74	\$9.93	1.4	19	10.8	10.7	10.6	1.82	1.46	1.43	1.42	5.32	4.73
LSTR	12.3	14.5	15.6	23%	\$11.81	\$10.03	\$9.37	0.6	12	8.6	10.0	10.4	0.84	0.72	0.80	0.82	5.23	4.06
XPO	7.8	7.7	7.8	60%	\$5.79	\$5.83	\$5.76	0.1	3	7.4	6.6	6.3	1.02	0.80	0.73	0.71	3.00	2.37
Avg/Sum	11.1	12.3	13.3	22%				0.9		8.1	9.0	9.3	0.99	0.81	0.85	0.86	4.04	3.71
Intelligent Tr	ucking	- Analy	/st: Rav	i Shanker														
TSP	-	-	-	NA	-\$2.31	-\$2.49	-\$2.63	NA	NA	-	NA	-	2062.77	26.29	24.42	23.80	1.96	2.21
Truckload - A	Analyst:	Ravi S	Shanke	r														
HTLD	13.1	12.4	13.3	13%	\$1.12	\$1.17	\$1.10	0.9	17	4.1	5.6	6.2	1.71	1.19	1.41	1.48	1.45	1.34
KNX	9.2	10.1	10.7	20%	\$5.39	\$4.91	\$4.64	0.5	10	4.8	5.1	5.2	1.44	1.15	1.16	1.17	1.20	1.11
SNDR	7.9	8.5	9.1	NA	\$2.67	\$2.48	\$2.32	NA	NA	3.6	3.4	3.3	0.63	0.53	0.48	0.46	1.31	1.16
USX	-		21.4	NA	-\$0.02	\$0.02	\$0.12	NA	NA	8.4	7.5	7.2	0.40	0.36	0.39	0.40	0.46	0.45
WERN	10.0	10.4	11.0	30%	\$3.88	\$3.74	\$3.53	0.3	6	4.9	4.8	4.8	1.04	0.93	0.90	0.88	1.80	1.63
TFII	12.0	12.6	12.2	NA	\$7.85	\$7.47	\$7.71	NA	NA	7.3	7.3	7.3	1.42	1.18	1.18	1.18	3.16	2.61
Avg/Sum	10.5	10.8	13.0	21%				0.6		5.5	5.6	5.7	1.11	0.89	0.92	0.93	1.56	1.38
Less-Than-T	ruckloa	d - Ana	alyst: R	avi Shanker														
ARCB	5.2	5.7	6.3	42%	\$14.21	\$13.04	\$11.88	0.1	4	3.5	3.7	3.8	0.52	0.41	0.39	0.39	1.64	1.39
ODFL	21.6	21.2	20.9	29%	\$11.79	\$11.99	\$12.13	0.7	14	14.0	13.9	13.8	5.60	4.61	4.54	4.52	6.99	5.81
SAIA	14.0	14.1	14.3	32%	\$13.91	\$13.84	\$13.61	0.4	9	8.1	7.9	7.8	2.36	1.87	1.82	1.81	3.26	2.72
Avg/Sum	13.6	13.7	13.8	34%				0.4		8.5	8.5	8.5	2.83	2.29	2.25	2.24	3.97	3.31

UPDATE

Exhibit 5: DuPont Analysis (MS Estimates)

9/29/2022	Ne	t Inc. Mar	gin	Sales	Adj. As	sets ^h		ROA		Adj. As	sets ^h /	Equity		ROE			ROIC	
MW Ticker	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
Rails - Analys	t: Ravi Sl	hanker																
CNR	29.1%	29.7%	29.7%	0.29	0.31	0.32	8.7%	9.6%	9.6%	2.2	2.3	2.3	19%	22%	21%	11%	13%	13%
CSX	28.1%	27.0%	24.8%	0.30	0.34	0.33	8.7%	9.4%	8.3%	3.1	2.4	2.1	26%	23%	17%	11%	11%	9%
NSC	26.4%	25.5%	24.9%	0.28	0.30	0.30	7.5%	7.9%	7.5%	2.9	3.3	3.2	22%	25%	24%	10%	11%	10%
UNP	29.9%	28.7%	26.3%	0.32	0.35	0.34	9.6%	10.3%	9.1%	4.8	6.1	5.5	46%	62%	50%	13%	14%	12%
Avg/Sum	28.4%	27.7%	26.4%	0.30	0.33	0.32	6.9%	9.3%	8.6%	3.3	3.6	3.3	28%	33%	28%	9%	12%	11%
Parcel/Airfrei	ght - Anal	yst: Ravi	Shanker															
FDX	4.0%	5.5%	4.5%	0.82	0.83	0.81	3.4%	4.6%	3.7%	4.2	4.0	3.8	14%	18%	14%	5%	6%	5%
UPS	10.9%	10.9%	9.2%	1.64	1.65	1.49	18.4%	18.2%	13.8%	4.1	3.1	2.9	NM	NM	NM	31%	26%	19%
Avg/Sum	7.5%	8.2%	6.8%	1.23	1.24	1.15	10.9%	11.4%	8.7%	4.2	3.5	3.3	14%	18%	14%	18%	16%	12%
Logistics - Ar	nalyst: Ra	vi, Shank	er															
CHRW	3.7%	4.1%	2.8%	3.41	3.53	3.35	14.5%	15.1%	8.8%	3.3	3.0	2.6	42%	43%	25%	24%	27%	14%
EXPD	8.6%	7.3%	6.3%	2.30	2.24	2.09	24.0%	16.6%	10.9%	2.1	1.8	1.4	40%	30%	19%	30%	21%	12%
HUBG	4.1%	6.1%	5.0%	1.86	2.11	1.98	8.1%	13.9%	9.3%	1.7	1.6	1.2	13%	20%	12%	11%	19%	11%
JBHT	6.3%	6.6%	6.0%	1.89	1.88	1.72	12.6%	13.4%	10.7%	2.1	2.0	1.9	24%	25%	20%	18%	19%	15%
LSTR	5.8%	5.7%	4.8%	3.58	3.67	3.82	23.6%	21.9%	16.8%	2.1	1.9	1.3	44%	40%	23%	43%	39%	24%
XPO	3.8%	5.3%	4.4%	1.95	1.60	1.51	5.5%	8.2%	6.7%	7.4	3.9	3.1	54%	33%	21%	7%	12%	9%
Avg/Sum	5.4%	5.8%	4.9%	2.50	2.50	2.41	14.7%	14.8%	10.6%	3.1	2.4	1.9	36%	32%	20%	22%	23%	14%
Intelligent Tru	ıcking - A	nalyst: R	avi Shanl	ær														
TSP	NM	NM	NM	0.11	0.19	0.69	-608.5%	NM	NM	0.0	0.1	0.1	-	-	-	-61%	-35%	-29%
Truckload - A	nalyst: R	avi Shanl	cer															
HTLD	13.1%	9.5%	6.7%	0.79	0.60	0.76	9.9%	7.6%	5.3%	1.1	1.9	2.0	11%	11%	10%	11%	9%	7%
KNX	13.1%	11.7%	10.0%	0.58	0.70	0.71	8.4%	8.3%	7.0%	1.6	1.6	1.4	12%	13%	10%	12%	12%	9%
SNDR	7.3%	7.0%	6.3%	1.59	1.84	1.77	12.5%	13.1%	11.2%	1.5	1.3	1.2	17%	17%	13%	16%	17%	13%
USX	0.4%	-0.2%	0.4%	1.54	1.54	1.53	0.7%	-0.3%	0.7%	4.5	5.1	4.7	3%	-1%	3%	1%	0%	1%
WERN	8.6%	7.5%	6.9%	1.07	1.22	1.07	10.0%	9.3%	7.7%	1.9	1.8	1.8	17%	17%	13%	15%	13%	10%
TFII	6.9%	8.3%	8.0%	1.26	1.59	1.61	10.4%	13.2%	12.5%	2.6	2.0	1.6	22%	27%	20%	15%	19%	15%
Avg/Sum	8.3%	7.3%	6.5%	1.1	1.24	1.22	8.8%	8.7%	7.5%	2.1	2.2	2.1	14%	14%	12%	12%	12%	9%
Less-Than-Tr	uckload -	Analyst:	Ravi Sha	nker														
ARCB	5.6%	6.7%	5.8%	2.00	2.35	2.12	13.2%	16.9%	12.3%	2.1	1.9	1.6	24%	30%	20%	18%	26%	18%
ODFL	19.7%	21.1%	20.7%	1.21	1.23	1.19	24.8%	28.1%	24.9%	1.2	1.2	1.0	28%	32%	26%	29%	33%	27%
SAIA	10.9%	13.1%	11.3%	1.32	1.31	1.14	15.3%	19.0%	13.7%	1.4	1.4	1.3	20%	23%	17%	20%	24%	16%
Avg/Sum	12.1%	13.7%	12.6%	1.51	1.63	1.48	17.8%	21.3%	17.0%	1.6	1.5	1.3	24%	28%	21%	22%	27%	21%

UPDATE

Exhibit 6: Capital Structure Metrics

9/29/2022	Mkt Cap ^a	Debt	Total Cash	EV	Adi Debt	Adj. Net Debt	Adj. EV	Total Assets	Adj. Assets	BV Total Liab.	BV Equity
MW Ticker	(\$Bil.)	(\$Bil.)	(\$Bil.)	(\$Bil.)	(\$Bil.)	(\$Bil.)	(\$Bil.)	(\$Bil.)	(\$Bil.)	(\$Bil.)	(\$Bil.)
Rails - Analy	/st: Ravi Sha	anker									
CNR	\$104.1	\$12.9	\$0.8	\$116.2	\$15.3	\$14.4	\$118.5	\$48.5	\$50.9	\$25.8	\$22.7
CSX	\$58.2	\$16.8	\$2.2	\$72.8	\$20.1	\$17.9	\$76.1	\$40.5	\$43.8	\$27.0	\$13.5
NSC	\$50.4	\$13.3	\$0.8	\$62.8	\$15.5	\$14.7	\$65.1	\$38.5	\$40.7	\$24.9	\$13.6
UNP	\$124.4	\$31.5	\$1.0	\$154.9	\$37.5	\$36.5	\$160.9	\$63.5	\$69.5	\$49.4	\$14.2
Avg/Sum	\$451.3	\$74.5	\$4.9	\$520.9	\$88.4	\$83.5	\$534.7	\$191.1	\$204.9	\$127.0	\$64.0
Parcel/Airfre	eight - Analy	st: Ravi	Shanker								
FDX	\$39.6	\$22.2	\$8.8	\$53.0	\$54.7	\$45.9	\$85.5	\$84.8	\$117.3	\$58.7	\$26.1
UPS	\$143.8	\$25.5	\$10.3	\$159.1	\$25.5	\$15.3	\$159.1	\$69.4	\$69.4	\$55.1	\$14.3
Avg/Sum	\$183.4	\$47.7	\$19.0	\$212.1	\$80.2	\$61.2	\$244.6	\$154.2	\$186.7	\$113.9	\$40.4
Logistics - A	Analyst: Rav	i, Shank	er								
CHRW	\$12.2	\$1.7	\$0.3	\$13.7	\$1.7	\$1.4	\$13.7	\$7.0	\$7.0	\$5.0	\$2.0
EXPD	\$14.8	\$0.5	\$1.7	\$13.5	\$1.8	\$0.0	\$14.8	\$7.6	\$8.9	\$4.1	\$3.5
HUBG	\$2.5	\$0.3	\$0.2	\$2.6	\$0.3	\$0.2	\$2.6	\$2.4	\$2.4	\$1.1	\$1.3
JBHT	\$17.2	\$1.5	\$0.4	\$18.3	\$1.5	\$1.1	\$18.3	\$6.8	\$6.8	\$3.7	\$3.1
LSTR	\$5.3	\$0.1	\$0.2	\$5.2	\$0.1	-\$0.1	\$5.2	\$2.0	\$2.0	\$1.2	\$0.9
XPO	\$5.2	\$0.1	\$0.3	\$5.0	\$0.1	-\$0.2	\$5.0	\$8.7	\$8.7	\$7.6	\$1.1
Avg/Sum	\$57.1	\$4.2	\$3.0	\$58.3	\$5.5	\$2.5	\$59.6	\$34.6	\$35.9	\$22.6	\$12.0
Intelligent T	rucking - An	alyst: Ra	avi Shanker								
TSP	\$1.7	\$0.0	\$1.3	\$0.4	\$0.0	-\$1.3	\$0.4	\$1.4	\$1.4	\$0.1	\$1.3
Truckload -	Analyst: Ra	vi Shank	er								
HTLD	\$1.2	\$0.0	\$0.2	\$1.0	\$0.0	-\$0.2	\$1.0	\$0.9	\$0.9	\$0.2	\$0.7
KNX	\$8.0	\$0.7	\$0.3	\$8.4	\$0.7	\$0.4	\$8.4	\$10.7	\$10.7	\$4.1	\$6.5
SNDR	\$3.8	\$0.3	\$0.4	\$3.6	\$0.3	-\$0.1	\$3.6	\$3.9	\$3.9	\$1.5	\$2.4
USX	\$0.1	\$0.7	\$0.0	\$0.8	\$0.7	\$0.7	\$0.8	\$1.3	\$1.3	\$1.0	\$0.3
WERN	\$2.5	\$0.5	\$0.1	\$2.9	\$0.5	\$0.4	\$2.9	\$2.6	\$2.6	\$1.2	\$1.4
TFII	\$11.4	\$1.6	\$0.0	\$13.0	\$1.6	\$1.6	\$13.0	\$5.8	\$5.8	\$3.5	\$2.2
Avg/Sum	\$4.2	\$0.6	\$0.1	\$4.6	\$0.6	\$0.5	\$4.6	\$4.0	\$4.0	\$1.8	\$2.1
Less-Than-1	ruckload - A	Analyst:	Ravi Shanker								
ARCB	\$1.8	\$0.3	\$0.1	\$2.0	\$0.3	\$0.2	\$2.0	\$2.1	\$2.1	\$1.2	\$0.9
ODFL	\$28.4	\$0.1	\$0.5	\$28.0	\$0.1	-\$0.4	\$28.0	\$4.8	\$4.8	\$1.1	\$3.7
SAIA	\$5.1	\$0.2	\$0.1	\$5.2	\$0.2	\$0.1	\$5.2	\$1.8	\$1.8	\$0.6	\$1.2
Avg/Sum	\$35.4	\$0.6	\$0.7	\$35.3	\$0.6	-\$0.1	\$35.3	\$8.8	\$8.8	\$3.0	\$5.8

UPDATE

Exhibit 7: Credit and Leverage Metrics (MS Estimates)

			-												
9/29/2022	Adj. De	bt° / EBI	TDA(R)	EBITDA((R) ^f / Net	Int Exp ^g	Adj. Net D	Debt ^c as % o	of Adj. EV°	Total Ca	sh as % of	Adj. EV ^c	Total	Cash / S	ales
MW Ticker	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
Rails - Analy	yst: Ravi	Shanker													
CNR	2.0	1.9	1.9	5.5	6.1	6.3	12%	13%	12%	1%	0%	1%	6%	1%	10%
CSX	2.8	2.5	2.5	3.7	4.1	3.8	23%	19%	16%	3%	6%	9%	18%	33%	46%
NSC	2.6	2.6	2.8	3.7	3.7	3.7	22%	24%	24%	1%	0%	1%	8%	0%	4%
UNP	3.0	3.0	3.4	3.9	3.9	3.5	22%	24%	23%	1%	0%	2%	4%	1%	12%
Avg/Sum	2.6	2.5	2.6	4.2	4.5	4.3	19%	20%	19%	1%	2%	3%	9%	9%	18%
Parcel/Airfre	eight - An	nalyst: R	avi Shaı	nker											
FDX	3.7	4.0	4.3	2.9	2.7	2.6	52%	54%	55%	10%	12%	12%	10%	11%	11%
UPS	1.6	1.4	1.9		-		10%	8%	8%	6%	7%	6%	11%	11%	11%
Avg/Sum	2.6	2.7	3.1	2.9	2.7	2.6	31%	31%	31%	8%	9%	9%	10%	11%	11%
Logistics - A	Analyst: F	Ravi, Sha	anker												
CHRW	1.4	1.1	1.9	19.6	-	16.3	10%	8%	6%	2%	4%	6%	1%	2%	4%
EXPD	0.8	1.0	1.6	12.1	9.4	6.2	0%	-1%	-7%	11%	14%	20%	10%	13%	26%
HUBG	0.9	0.5	0.7	-	-	-	6%	-1%	-17%	6%	14%	33%	4%	6%	14%
JBHT	0.9	0.8	0.8	-	-	-	5%	6%	6%	2%	1%	1%	3%	2%	1%
LSTR	0.2	0.2	0.2	-	-	-	-2%	-4%	-14%	4%	6%	15%	3%	4%	12%
XPO	0.1	1.4	0.0	6.8	6.7	7.3	-2%	11%	-13%	3%	4%	14%	2%	3%	10%
Avg/Sum	0.7	0.8	0.9	12.8	8.0	9.9	3%	3%	-7%	5%	7%	15%	4%	5%	11%
Intelligent T	rucking -	Analyst	: Ravi S	hanker											
TSP	0.0	0.0	0.0	-	-	-	-401%	-113%	-104%	403%	113%	104%	NM	NM	NM
Truckload -	Analyst:	Ravi Sha	anker												
HTLD	0.0	1.8	1.9	-	16.9	7.6	-16%	27%	26%	16%	2%	2%	26%	3%	3%
KNX	0.4	0.4	0.5	-	-	-	5%	2%	1%	3%	6%	8%	4%	7%	9%
SNDR	0.3	0.2	0.1	-	-	-	-4%	-19%	-34%	11%	25%	38%	7%	12%	16%
USX	6.4	8.2	5.3	3.6	2.7	4.2	84%	85%	85%	1%	3%	7%	0%	1%	3%
WERN	0.8	0.8	1.0	-	-	-	13%	9%	12%	2%	7%	6%	2%	6%	6%
TFII	1.6	1.0	0.9		-		15%	12%	3%	0%	3%	11%	0%	3%	12%
Avg/Sum	1.5	1.9	1.5	3.6	9.8	5.9	16%	18%	15%	5%	7%	11%	6%	5%	8%
Less-Than-	Truckload	d - Analy	st: Ravi	Shanker											
ARCB	0.8	0.5	0.5	-	-	-	10%	5%	0%	6%	9%	11%	3%	4%	5%
ODFL	0.1	0.0	0.0	-	-	-	-1%	-1%	-4%	2%	1%	4%	9%	6%	17%
SAIA	0.3	0.2	0.3		-		1%	0%	-1%	2%	3%	4%	5%	6%	7%
Avg/Sum	0.4	0.3	0.3	-	-	-	3%	1%	-1%	3%	5%	6%	6%	5%	10%

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Exhibit 8: Sources & Uses of Cash

9/29/2022	MS	S CFO (\$ N	/lil.)	MS	Capex (\$	Mil.)	MS Cap	oex / D&/	A Ratio	MS Cap	oex as % o	of Sales	MS	FCF (\$ N	lil.)	F	CF Yield	%
MW Ticker	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
Rails - Analy	st: Ravi S	hanker																
CNR	\$6,971	\$5,807	\$7,741	\$2,891	\$2,850	\$2,984	1.8	1.8	1.8	20.0%	17.0%	17.0%	\$4,080	\$2,957	\$4,757	3.9%	2.8%	4.6%
CSX	\$5,099	\$5,804	\$5,241	\$1,791	\$2,202	\$2,174	1.3	1.5	1.4	14.3%	15.0%	15.0%	\$3,308	\$3,601	\$3,067	5.7%	6.2%	5.3%
NSC	\$4,255	\$1,819	\$4,545	\$1,470	\$1,804	\$1,884	1.2	1.5	1.5	13.2%	14.5%	15.2%	\$2,785	\$15	\$2,661	5.5%	0.0%	5.3%
UNP	\$9,032	\$9,816	\$8,968	\$2,936	\$3,350	\$3,295	1.3	1.5	1.4	13.5%	13.5%	13.5%	\$6,096	\$6,467	\$5,673	4.9%	5.2%	4.6%
Avg/Sum	\$4,226	\$5,813	\$6,251	\$1,515	\$1,701	\$1,723	1.4	1.6	1.5	13.7%	14.3%	14.6%	\$2,712	\$2,173	\$4,040	3.3%	3.8%	5.0%
Parcel/Airfre	eight - Ana	lyst: Ravi	Shanker															
FDX	\$10,572	\$8,963	\$7,526	\$6,535	\$6,549	\$6,592	1.6	1.5	1.4	7.3%	7.1%	7.3%	\$4,037	\$2,414	\$935	10.2%	6.1%	2.4%
UPS	\$15,007	\$14,480	\$11,678	\$4,194	\$5,437	\$5,355	1.4	1.8	1.7	4.3%	5.4%	5.8%	\$10,813	\$9,043	\$6,324	7.5%	6.3%	4.4%
Avg/Sum	\$12,789	\$11,722	\$9,602	\$5,365	\$5,993	\$5,973	1.5	1.6	1.5	5.8%	6.2%	6.5%	\$7,425	\$5,728	\$3,629	8.9%	6.2%	3.4%
Logistics - A	ınalyst: Ra	ıvi, Shank	er															
CHRW	\$95	\$1,231	\$1,132	\$34	\$95	\$97	0.4	1.0	1.0	0.1%	0.4%	0.5%	\$61	\$1,136	\$1,035	0.5%	9.3%	8.5%
EXPD	\$868	\$1,292	\$1,865	\$36	\$55	\$75	0.7	1.0	1.3	0.2%	0.3%	0.7%	\$832	\$1,237	\$1,790	5.6%	8.4%	12.1%
HUBG	\$298	\$466	\$572	\$133	\$300	\$250	1.0	2.2	1.8	3.1%	5.3%	5.2%	\$165	\$166	\$322	6.7%	6.8%	13.1%
JBHT	\$1,294	\$1,686	\$1,715	\$948	\$1,600	\$1,430	1.7	2.5	2.2	7.8%	11.0%	10.0%	\$347	\$86	\$285	2.0%	0.5%	1.7%
LSTR	\$280	\$360	\$505	\$23	\$28	\$32	0.5	0.5	0.5	0.4%	0.4%	0.5%	\$256	\$332	\$473	4.8%	6.3%	8.9%
XPO	\$788	\$974	\$754	\$313	\$532	\$457	0.5	6.4	1.0	1.9%	4.2%	3.8%	\$475	\$442	\$297	9.2%	8.5%	5.7%
Avg/Sum	\$518	\$859	\$1,090	\$212	\$373	\$334	0.8	2.3	1.3	2.3%	3.6%	3.4%	\$305	\$486	\$700	4.1%	5.7%	8.3%
Intelligent Ti	rucking - A	ınalyst: Ra	avi Shanke	r														
TSP	\$13	\$30	\$37	\$13	\$30	\$37	1.4	2.7	2.4	NM	NM	NM	\$0	\$0	-	-	-	-
Truckload -	Analyst: R	avi Shank	er															
HTLD	\$254	\$329	\$317	\$133	\$100	\$125	1.3	0.9	1.2	21.8%	10.9%	9.7%	\$121	\$229	\$192	10.5%	19.8%	16.7%
KNX	\$1,442	\$1,187	\$1,026	\$534	\$650	\$700	0.9	1.1	1.1	8.9%	8.6%	9.4%	\$908	\$537	\$326	11.4%	6.7%	4.1%
SNDR	\$740	\$1,002	\$857	\$2,524	\$500	\$475	8.5	1.5	1.4	NM	7.5%	7.2%	-\$1,784	\$502	\$382	Neg.	13.4%	10.2%
USX	\$174	\$97	\$188	\$192	\$180	\$150	2.4	2.3	1.3	9.9%	8.4%	7.2%	-\$18	-\$83	\$38	Neg.	Neg.	29.4%
WERN	\$511	\$876	\$556	\$371	\$375	\$415	1.4	1.4	1.5	13.6%	11.6%	13.3%	\$140	\$501	\$141	5.7%	20.3%	5.7%
TFII	\$968	\$810	\$1,355	\$269	\$350	\$360	0.8	0.8	0.7	3.7%	3.8%	4.1%	\$699	\$460	\$995	6.1%	4.0%	8.7%
Avg/Sum	\$657	\$740	\$693	\$628	\$361	\$377	2.4	1.3	1.2	11.9%	8.9%	9.2%	\$29	\$378	\$316	7.9%	14.1%	11.5%
Less-Than-T	ruckload -	Analyst:	Ravi Shanl	cer														
ARCB	\$337	\$388	\$386	\$58	\$200	\$230	0.5	1.7	1.9	1.5%	3.8%	4.7%	\$279	\$188	\$156	15.3%	10.3%	8.6%
ODFL	\$1,232	\$1,556	\$1,878	\$550	\$825	\$725	2.1	3.0	2.6	10.5%	13.0%	11.5%	\$682	\$731	\$1,153	2.4%	2.6%	4.1%
SAIA	\$391	\$573	\$498	\$286	\$515	\$475	2.0	3.2	2.8	12.5%	18.3%	17.0%	\$105	\$58	\$23	2.0%	1.1%	0.4%
Avg/Sum	\$653	\$839	\$921	\$298	\$513	\$477	1.5	2.6	2.4	8.1%	11.7%	11.1%	\$355	\$326	\$444	6.6%	4.7%	4.4%

 ${\it Source: Company \, data, \, Refinitiv, \, Morgan \, Stanley \, Research. \, See \, notes \, for \, details}$

UPDATE

Exhibit 9: Capital Returns Summary (MS Estimates)

Carlo Carl																			
Rails: Analyst: Ravi Shruker CNR 413% 340% 349% \$1740 \$1.691 \$1.820 \$1.7% \$1.6% \$2.0% \$2.0% \$2.3% \$3.150 \$2.071 \$1.5% \$3.0% \$2.0% \$2.0% \$2.0% \$4.7% \$3.0% \$2.0% \$3.2% \$4.7% \$3.0% \$2.0% \$3.2% \$4.7% \$3.0% \$2.0% \$3.2% \$4.7% \$3.0% \$2.0% \$3.2% \$4.7% \$3.0% \$2.0% \$3.2% \$4.7% \$3.0% \$2.0% \$3.0% \$2.0% \$3.0% \$3.0% \$3.0% \$3.0% \$3.0% \$3.0% \$3.0% \$3.0% \$2.0% \$2.3% \$3.373 \$3.190 \$1.431 \$6.7% \$6.3% \$2.8% \$8.7% \$8.1% \$8.1% \$3.0% \$2.0% \$4.0					Div	idend (\$	Mil.)	Di	v. Yield	%		Buyback	<u> </u>	Share	e Buybac	k %	Total Yiel	d % (Div. +	Buyback)
CNR				2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
CSX 23.8% 0.0% 0.0% 0.0% \$3.99 \$0 1.4% 0.0% 0.0% \$2.886 \$0 \$0 5.0 5.0% 0.0% 0.0% 6.4% 0.0% 0.0% NSC 35.0% S1,0% 37,0% \$1,028 \$1,172 \$1,135 \$2.0% 2.3% 2.3% \$3,373 \$3,190 \$1,431 6.7% 6.3% 2.8% 8.7% 8.7% 8.7% 8.7% 9.8% 9.9% 9.9% 9.9% 9.9% 9.9% 9.9% 9.9	Rails - Analys	st: Ravi Sh	nanker																
NSC 35.0% 37.0% 37.0% \$1.028 \$1,172 \$1,135 2.0% 2.3% 2.3% \$3,190 \$1,431 6.7% 6.3% 2.8% 8.7% 8.7% 8.7% 5.0% 1.9% 42.9% 41.5% \$2,800 \$2,950 \$2,664 2.3% 2.4% 2.1% \$7,281 \$6,075 \$2,200 5.9% 5.6% 1.8% 8.1% 8.0% 4.0% 4.0% 3.5% 3.7% 2.81 \$8.30 \$11.2 \$1.2 \$1.2 \$1.1 \$1.5 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2	CNR	41.3%	34.0%	34.9%	\$1,740	\$1,691	\$1,820	1.7%	1.6%	1.7%	\$1,583	\$3,150	\$2,071	1.5%	3.0%	2.0%	3.2%	4.7%	3.7%
UNP 42.9%	CSX	23.8%	0.0%	0.0%	\$839	\$0	\$0	1.4%	0.0%	0.0%	\$2,886	\$0	\$0	5.0%	0.0%	0.0%	6.4%	0.0%	0.0%
Avg/Sum 35.7% 28.1% 28.3% \$915 \$830 \$1,124 1.2% 1.1% 1.5% \$2,162 \$3,388 \$1,243 3.2% 2.5% 1.7% 4.4% 3.5% 3.5% 3.5% 2.6% 1.7% 1.7% 1.7% 5.7% 5.7% 5.1486 \$6.66 1.3% 3.7% 1.6% 3.0% 5.4% 3.0% 5.4% 3.0% 5.5% 3.0% 5.0% 5.0% 3.0% 5.5% 3.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5	NSC	35.0%	37.0%	37.0%	\$1,028	\$1,172	\$1,135	2.0%	2.3%	2.3%	\$3,373	\$3,190	\$1,431	6.7%	6.3%	2.8%	8.7%	8.7%	5.1%
Parcel/Airfreight - Analyst: Ravi Shanker FDX 19.0% 13.2% 15.8% \$684 \$672 \$660 1.7% 1.7% 1.7% 1.7% \$517 \$1.466 \$626 1.3% 3.7% 1.6% 3.0% 5.4% 3.0 LPS 32.3% 48.7% NM \$3.437 \$5.321 \$5.263 2.4% 3.7% 3.7% \$383 \$1.002 \$1.128 0.7% 0.4% 1.1% 2.6% 4.1% 4. AvgSum 25.6% 30.9% 15.8% \$2,060 \$2.996 \$2.962 2.1% 2.7% 2.7% \$383 \$1.002 \$1.128 0.7% 0.0% 1.4% 2.8% 4.7% 4. Logistics - Analyst: Ravi, Shanker CHRW 32.8% 25.0% 45.0% \$277 \$266 \$2.60 \$2.3% 2.2% 5.2% 2.2% \$511 \$511 \$511 \$511 \$4.2% 4.2% 4.2% 6.0% 6.4% 6.4% 6.8% 6.8 EXPD 13.8% 14.2% 25.4% \$196 \$171 \$1.74 1.3% 12.2% 12.6% \$448 \$618 \$895 2.8% 4.2% 6.0% 4.1% 5.3% 7. HUBG 0.0% 0.0% 0.0% \$30 \$0 \$0.0 0.0% 0.0% 50 \$9 \$4.2% 5.0 \$0.0 4.4% 0.0% 0.0% 50 \$9 \$4.2% 5.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	UNP	42.9%	41.5%	41.5%	\$2,800	\$2,950	\$2,664	2.3%	2.4%	2.1%	\$7,291	\$6,975	\$2,300	5.9%	5.6%	1.8%	8.1%	8.0%	4.0%
FDX 19.0% 13.2% 15.8% \$684 \$672 \$660 1.7% 1.7% 1.7% \$517 \$1.466 \$626 1.3% 3.7% 1.6% 3.0% 5.4% 3.0% 5.4% 3.0% 0.9% 0.9% \$5.263 2.4% 3.7% 3.7% 5.549 \$5.38 \$1.629 0.2% 0.4% 1.1% 2.6% 4.1% 4.2% 4.2% 4.2% 4.2% 4.2% 4.2% 4.2% 4.2	Avg/Sum	35.7%	28.1%	28.3%	\$915	\$830	\$1,124	1.2%	1.1%	1.5%	\$2,162	\$3,388	\$1,243	3.2%	2.5%	1.7%	4.4%	3.5%	3.2%
Light Signature Light	Parcel/Airfrei	ght - Analy	yst: Ravi \$	Shanker															
Avg/Sum 25.6% 30.9% 15.8% \$2,060 \$2,996 \$2,962 2.1% 2.7% 2.7% \$383 \$1,002 \$1,128 0.7% 2.0% 1.4% 2.8% 4.7% 4. Logistics - Analyst: Ravi, Shanker CHRW 32.8% 25.0% 45.0% \$277 \$266 \$266 2.3% 2.2% 2.2% \$511 \$511 \$511 \$4.2% 4.2% 4.2% 6.0% 6.4% 6.4% 6. EXPD 13.8% 14.2% 25.4% \$196 \$171 \$174 1.3% 1.2% 1.2% \$408 \$618 \$995 2.8% 4.2% 6.0% 4.1% 5.3% 7. HUBG 0.0% 0.0% 0.0% \$0.0% \$0.0 \$0.0 \$0.0 \$0.	FDX	19.0%	13.2%	15.8%	\$684	\$672	\$660	1.7%	1.7%	1.7%	\$517	\$1,466	\$626	1.3%	3.7%	1.6%	3.0%	5.4%	3.2%
Colfection	UPS	32.3%	48.7%	NM	\$3,437	\$5,321	\$5,263	2.4%	3.7%	3.7%	\$249	\$538	\$1,629	0.2%	0.4%	1.1%	2.6%	4.1%	4.8%
CHEWV 32.8% 25.0% 45.0% \$277 \$266 \$266 2.3% 2.2% 5.511 \$511 \$511 4.2% 4.2% 4.2% 6.4% 6.4% 6.4% 6.2% EXPD 13.8% 14.2% 25.4% \$196 \$171 \$174 1.3% 1.2% 1.2% \$408 \$618 \$895 2.8% 4.2% 6.0% 4.1% 5.3% 7. HUBG 0.0% 0.0% 0.0% 0.0% \$0 \$0 \$0 0.0% 0.0%	Avg/Sum	25.6%	30.9%	15.8%	\$2,060	\$2,996	\$2,962	2.1%	2.7%	2.7%	\$383	\$1,002	\$1,128	0.7%	2.0%	1.4%	2.8%	4.7%	4.0%
EXPD 13.8% 14.2% 25.4% \$196 \$171 \$174 1.3% 1.2% 1.2% \$408 \$618 \$895 2.8% 4.2% 6.0% 4.1% 5.3% 7. HUBG 0.0% 0.0% 0.0% 0.0% \$0 \$0 \$0 0.0% 0.0%	Logistics - A	nalyst: Rav	vi, Shanke	er															
HUBG 0.0% 0.0% 0.0% \$0.0% \$0 \$0 \$0 0.0% 0.0%	CHRW	32.8%	25.0%	45.0%	\$277	\$266	\$266	2.3%	2.2%	2.2%	\$511	\$511	\$511	4.2%	4.2%	4.2%	6.4%	6.4%	6.4%
JBHT	EXPD	13.8%	14.2%	25.4%	\$196	\$171	\$174	1.3%	1.2%	1.2%	\$408	\$618	\$895	2.8%	4.2%	6.0%	4.1%	5.3%	7.2%
LSTR 29.3% 8.8% 11.8% \$112 \$37 \$37 \$2.1% 0.7% 0.7% \$0 \$190 \$277 0.0% 3.6% -0.5% 2.1% 4.3% 0. XPO 0.2% 0.4% 0.0% \$1 \$3 \$0 0.0% 0.1% 0.0% -\$385 \$0 \$0 -7.4% 0.0% 0.0% -7.4% 0.1% 0.0 Avg/Sum 15.4% 8.1% 13.7% \$101 \$68 \$80 0.9% 0.6% 0.7% \$102 \$214 \$288 0.1% 18% 1.8% 1.0% 2.4% 2. Intelligent Trucking - Analyst: Ravi Shanker TSP 0.0% 0.0% NM \$0 \$0 \$- 0.0% 0.0% 0.0% 50 \$- 0.0% 0.0% 0.0% 50 \$- 0.0% 0.0% 0.0% 0.0% 50 \$- 0.0% 0.0% 0.0% 0.0% 0.0% 50 \$- 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	HUBG	0.0%	0.0%	0.0%	\$0	\$0	\$0	0.0%	0.0%	0.0%	\$0	-\$9	-\$23	0.0%	-0.4%	-0.9%	0.0%	-0.4%	-0.9%
XPO 0.2% 0.4% 0.0% \$1 \$3 \$0 0.0% 0.1% 0.0% -\$385 \$0 \$0 -7.4% 0.0% 0.0% 0.7% 0.0% 0.	JBHT	16.4%	0.0%	0.0%	\$124	\$0	\$0	0.7%	0.0%	0.0%	\$180	\$186	\$370	1.1%	1.1%	2.2%	1.8%	1.1%	2.2%
Avg/Sum 15.4% 8.1% 13.7% \$101 \$68 \$80 0.9% 0.6% 0.7% \$102 \$214 \$288 0.1% 1.8% 1.8% 1.0% 2.4% 2. Intelligent Trucking - Analyst: Ravi Shanker TSP 0.0% 0.0% NM \$0 \$0 - 0.0% 0.0% - \$0 \$0 - 0.0% 0.0% - 0.0% 0.0% - 0.0% 0.0% Truckload - Analyst: Ravi Shanker HTLD 57.9% 7.2% 9.1% \$46 \$6 \$8 4.0% 0.5% 0.7% \$0 \$9 \$11 0.0% 0.8% 1.0% 4.0% 1.3% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5	LSTR	29.3%	8.8%	11.8%	\$112	\$37	\$37	2.1%	0.7%	0.7%	\$0	\$190	-\$27	0.0%	3.6%	-0.5%	2.1%	4.3%	0.2%
Truckload - Analyst: Ravi Shanker	XPO	0.2%	0.4%	0.0%	\$1	\$3	\$0	0.0%	0.1%	0.0%	-\$385	\$0	\$0	-7.4%	0.0%	0.0%	-7.4%	0.1%	0.0%
TSP 0.0% 0.0% NIM \$0 \$0 - 0.0% 0.0% - \$0 \$0 - 0.0% 0.0% - 0.0% 0.0% - 0.0% 0.0% - 0.0% 0.0%	Avg/Sum	15.4%	8.1%	13.7%	\$101	\$68	\$80	0.9%	0.6%	0.7%	\$102	\$214	\$288	0.1%	1.8%	1.8%	1.0%	2.4%	2.5%
Truckload - Analyst: Ravi Shanker HTLD 57.9% 7.2% 9.1% \$46 \$6 \$8 4.0% 0.5% 0.7% \$0 \$9 \$11 0.0% 0.8% 1.0% 4.0% 1.3% 1.0 KINX 8.1% 7.0% 8.6% \$64 \$61 \$65 0.8% 0.8% 0.8% \$57 \$323 \$76 0.7% 4.0% 0.9% 1.5% 4.8% 1.0 SNDR 12.2% 10.2% 11.6% \$50 \$48 \$48 1.3% 1.3% 1.3% 1.3% \$0 \$0 \$0 \$0 \$0.0% 0.0% \$	Intelligent Tr	ucking - A	nalyst: Ra	ıvi Shank	er														
HTLD 57.9% 7.2% 9.1% \$46 \$6 \$8 4.0% 0.5% 0.7% \$0 \$9 \$11 0.0% 0.8% 1.0% 4.0% 1.3% 1. KNX 8.1% 7.0% 8.6% \$64 \$61 \$65 0.8% 0.8% 0.8% 0.8% \$57 \$323 \$76 0.7% 4.0% 0.9% 1.5% 4.8% 1. SNDR 12.2% 10.2% 11.6% \$50 \$48 \$48 1.3% 1.3% 1.3% \$0 \$0 \$0 - 0.0% 0.0% 0.0% - 1.3% 1.3% 1. USX 0.0% 0.0% 0.0% \$0 \$0 \$0 0.0% 0.0% 0.0%	TSP	0.0%	0.0%	NM	\$0	\$0	-	0.0%	0.0%	-	\$0	\$0	-	0.0%	0.0%	-	0.0%	0.0%	-
KNX 8.1% 7.0% 8.6% \$64 \$61 \$65 0.8% 0.8% 0.8% \$57 \$323 \$76 0.7% 4.0% 0.9% 1.5% 4.8% 1. SNDR 12.2% 10.2% 11.6% \$50 \$48 \$48 1.3% 1.3% 1.3% \$0 \$0 \$0 \$0 0.0% 0.0% 0.0% \$0 0.0% 0.0%	Truckload - A	Analyst: Ra	avi Shanke	er															
SNDR 12.2% 10.2% 11.6% \$50 \$48 \$48 1.3% 1.3% 1.3% \$0 \$0 - 0.0% 0.0% - 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3%	HTLD	57.9%	7.2%	9.1%	\$46	\$6	\$8	4.0%	0.5%	0.7%	\$0	\$9	\$11	0.0%	0.8%	1.0%	4.0%	1.3%	1.6%
USX 0.0% 0.0% 0.0% \$0 \$0 \$0 0.0% 0.0% \$0.0% 0.0%	KNX	8.1%	7.0%	8.6%	\$64	\$61	\$65	0.8%	0.8%	0.8%	\$57	\$323	\$76	0.7%	4.0%	0.9%	1.5%	4.8%	1.8%
WERN 12.4% 13.9% 15.0% \$29 \$34 \$32 1.2% 1.4% 1.3% \$4 \$111 \$29 0.2% 4.5% 1.2% 1.4% 5.9% 2.2% TFII 17.1% 12.5% 13.5% \$85 \$95 \$94 0.7% 0.8% 0.8% \$0 \$0 \$0 0.0% 0.0% - 0.7% 0.8% 0.2% Avg/Sum 17.2% 9.3% 10.4% \$43 \$40 \$40 1.3% 0.9% 0.9% \$9 \$79 \$24 0.2% 2.0% 0.8% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% 2.9% 1.5% <	SNDR	12.2%	10.2%	11.6%	\$50	\$48	\$48	1.3%	1.3%	1.3%	\$0	\$0	-	0.0%	0.0%	-	1.3%	1.3%	1.3%
TFII 17.1% 12.5% 13.5% \$85 \$95 \$94 0.7% 0.8% 0.8% \$0 \$0 \$0 0.0% 0.0% - 0.7% 0.8% 0.8% 0.8% \ \text{Avg/Sum} \ \begin{array}{c c c c c c c c c c c c c c c c c c c	USX	0.0%	0.0%	0.0%	\$0	\$0	\$0	0.0%	0.0%	0.0%	\$0	\$0	\$0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Avg/Sum 17.2% 9.3% 10.4% \$43 \$40 \$40 1.3% 0.9% 0.9% \$9 \$79 \$24 0.2% 2.0% 0.8% 1.5% 2.9% 1.5% Less-Than-Truckload - Analyst: Ravi Shanker ARCB 3.6% 2.4% 3.3% \$8 \$9 \$9 0.4% 0.5% 0.5% \$83 \$68 \$54 4.6% 3.8% 3.0% 5.0% 4.2% 3. ODFL 8.9% 10.2% 10.8% \$92 \$137 \$141 0.3% 0.5% 0.5% \$536 \$650 \$299 1.9% 2.3% 1.1% 2.2% 2.8% 1. SAIA 0.0% 0.0% \$0 \$0 0.0% 0.0% 0.0% -\$4 -\$4 -\$4 -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% <	WERN	12.4%	13.9%	15.0%	\$29	\$34	\$32	1.2%	1.4%	1.3%	\$4	\$111	\$29	0.2%	4.5%	1.2%	1.4%	5.9%	2.5%
Less-Than-Truckload - Analyst: Ravi Shanker ARCB 3.6% 2.4% 3.3% \$8 \$9 \$9 0.4% 0.5% 0.5% \$83 \$68 \$54 4.6% 3.8% 3.0% 5.0% 4.2% 3. ODFL 8.9% 10.2% 10.8% \$92 \$137 \$141 0.3% 0.5% 0.5% \$536 \$650 \$299 1.9% 2.3% 1.1% 2.2% 2.8% 1. SAIA 0.0% 0.0% 0.0% \$0 \$0 \$0 0.0% 0.0% 0.0% -\$4 -\$4 -\$4 -\$0.1% -0.1	TFII	17.1%	12.5%	13.5%	\$85	\$95	\$94	0.7%	0.8%	0.8%	\$0	\$0	\$0	0.0%	0.0%	-	0.7%	0.8%	0.8%
ARCB 3.6% 2.4% 3.3% \$8 \$9 \$9 0.4% 0.5% 0.5% \$83 \$68 \$54 4.6% 3.8% 3.0% 5.0% 4.2% 3. ODFL 8.9% 10.2% 10.8% \$92 \$137 \$141 0.3% 0.5% 0.5% \$536 \$650 \$299 1.9% 2.3% 1.1% 2.2% 2.8% 1. SAIA 0.0% 0.0% 0.0% \$0 \$0 \$0 0.0% 0.0% 0.0%	Avg/Sum	17.2%	9.3%	10.4%	\$43	\$40	\$40	1.3%	0.9%	0.9%	\$9	\$79	\$24	0.2%	2.0%	0.8%	1.5%	2.9%	1.5%
ODFL 8.9% 10.2% 10.8% \$92 \$137 \$141 0.3% 0.5% 0.5% \$536 \$650 \$299 1.9% 2.3% 1.1% 2.2% 2.8% 1. SAIA 0.0% 0.0% 0.0% \$0 \$0 \$0 \$0 0.0% 0.0% 0.0% -\$4 -\$4 -\$4 -\$4 -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1%	Less-Than-Ti	ruckload -	Analyst: I	Ravi Shar	ker														
SAIA 0.0% 0.0% 0.0% \$0 \$0 \$0 0.0% 0.0% 0.0%	ARCB	3.6%	2.4%	3.3%	\$8	\$9	\$9	0.4%	0.5%	0.5%	\$83	\$68	\$54	4.6%	3.8%	3.0%	5.0%	4.2%	3.5%
	ODFL	8.9%	10.2%	10.8%	\$92	\$137	\$141	0.3%	0.5%	0.5%	\$536	\$650	\$299	1.9%	2.3%	1.1%	2.2%	2.8%	1.5%
Avg/Sum 4.2% 4.2% 4.7% \$34 \$49 \$50 0.3% 0.3% \$205 \$238 \$116 2.1% 2.0% 1.3% 2.4% 2.3% 1.5%	SAIA	0.0%	0.0%	0.0%	\$0	\$0	\$0	0.0%	0.0%	0.0%	-\$4	-\$4	-\$4	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%
	Avg/Sum	4.2%	4.2%	4.7%	\$34	\$49	\$50	0.3%	0.3%	0.3%	\$205	\$238	\$116	2.1%	2.0%	1.3%	2.4%	2.3%	1.7%

Source: Company data, Refinitiv, Morgan Stanley Research. Note XPO dividend includes preferred dividend. See notes for details



Freight Thesis Overview

Exhibit 10: Freight Thesis Overview

Ticker	Investment Thesis	Investment Positives	Investment Negatives
ARCB.O OW	The mgmt. team has overseen strong EBIT improvement in recent years (amongst the best in the group) and we believe the stock is not getting the credit for recent OR gains that it should. It's diversification and focus on asset-heavy vs. asset-light balance makes it well-positioned among peers. The valuation is the most attractive amongst LTLs and while earnings volatility has been an overhang on the multiple for some time, mgmt.'s newfound focus on consistency should help re-rate the multiple to at least close some of the vast gap to peers.	Recent operating focus has driven margin improvement Regional LTL network expansion still an opportunity for growth Asset heavy vs. asset light balance is the right approach for the future	Growing asset-light footprint needs to account for emerging competitive pressure Operating metrics lag peers Macro trends weigh on volume growth
CHRW.O	We believe CHRW faces cyclical challenges from the spot- contract rate spread in the near-term as well as shippers structurally moving away from brokers toward asset-based carriers. More significantly, we see secular headwinds from the digitization of the brokerage function including the "uberization" of freight, blockchain and autonomous trucks, which we expect to play out over the next 2-3 years, together with the entry of well-funded new entrants in the space.	Truck brokerage share leader (~15%) with 115 years of history Potential to deploy balance sheet to serve as tailwind to earnings growth	Cyclical and structural risk from shippers moving from brokers to asset based carriers Digitization of brokerage driving highly competitive environment, hurting gross margins The need to keep up with tech investments could hurt op. margins
CSX.O	We believe the rising macro tide is offset by several key end markets facing cyclical and secular threats (auto, coal, intermodal), pricing gains may be decelerating, low hanging cost opportunities may have already been taken, OR is likely stable but hard to improve from here. Sentiment is not as frothy as other US Rails (UNP and NSC) but valuation Is significantly higher than history. The combination of topline headwinds, high bar on cons. EPS and high multiple keeps us UW.	Management team successfully works around secular and cyclical challenges Improving operating efficiencies and exceeding targets Share gains vs. regional peer	Unsustainble items boost OR potentially unwind Higher than average exposure to challenged end markets (IM, auto and coal) Investor focus shifts away to more attractive stories
EXPD.O	The two debates for EXPD in 2022 are: (1) will 2022 be a mean reversion year on Air/Ocean over earning (2) will the market care if that happens? We believe the stock is facing an incredibly difficult comp where it will be hard to sustain 2021 levels if/when Ocean and Air bottlenecks normalize. At current valuations, it appears the current level of earnings is being treated as normal which we believe is far too generous. Though EXPD tends to be a resilient stock we think that: (a) this may change in 2022/23 given the potential magnitude of the unwind and current valuation (b) EXPD can be a good relative UW even if the stock does not sharply correct.	Non-asset, variable cost model offers more downside protection in a market correction Potential for increased dividends / accelerated share buybacks to enhance shareholder returns	Geopolitical uncertainty could challenge global trade flows Gross margins likely to face secular pressure in coming years from digitization and new entrants
FDX.N EW	We see secular competitive risks to Parcels from a triple threat of (1) Insourcing by e-commerce giants, (2) Omnichannel shift enabling last mile competition from mid-size retailers, and (3) Platformization of small-shipper volumes. Together, these trends could erode returns in the BZC space, which has been a major driver of growth for the legacy Parcels in recent years. We see FDX as relatively better positioned than UPS due to its smaller eCommerce exposure, lack of AMZN business and unionization, an outsourced Ground operation, and potentially more self-help opportunities. In addition to the secular risks, tough macro conditions and execution are likely to keep earnings under pressure.	Variable cost structure better positions FDX vs. UPS in secular battle for B2C and in choppy macro Cost cutting efforts should support improved returns Investor sentiment is low, multiple has reset lower	As one of the international trade exposed companies we cover, FDX is exposed to macro/tariff risks After the breakup with AMZN, FDX is reliant on others for eCommerce growth Potential USPS reform

Source: Company Data, Morgan Stanley Research



Exhibit 11: Freight Thesis Overview (Cont'd)

HTLD.O EW	We see risk to HTLD's ongoing acquisition integrations and high valuation for the stock. While we see HTLD as a strong operator with good margins relative to peers, HTLD is the most expensive stock vs. direct peers in our coverage which puts focus on its small size, mixed M&A record and high percentage of earnings from gains on sale.	Strong operator with high margins GTI and IDC acquisitions create idiosyncratic growth opportunity Unique footprint may bring advantages if TL secular concerns weigh on stocks Some defensive traits in a tough macro	Most expensive stock in our coverage trading at a premium to history Company experiences road bumps as they integration acquisitions We see risk to near-term consensus estimates
HUBG.O EW	HUBG is one of the few 3PLs with a major presence in intermodal, but it lacks JBHT's favorable rail partnership and earnings execution has been uneven. That said, the potential for diversification through potential M&A optionality keeps risk-reward of shares relatively balanced.	Tight TL market leads to greater than expected volume and pricing growth Accretive growth through potential M&A Company specific initiatives to support gross margins (satellite tracking system, price optimization tools, load acceptance optimization. etc.)	Though HUBG has significant intermodal share, it lacks JBHT-like contract History of inconsistent execution Increasing IM competition broadly
JBHT.O	As the premier intermodal (IM) carrier with favorable rail contracts, JBHT should continue to take share in IM from other intermodal carriers (IMC's). However, this could come at the expense of price and margin as we believe IM faces structural challenges from trucking. Furthermore, the ICS business faces digital disruption and mgmt. will have to invest heavily in JB360° to keep up with new entrants. However, we believe the Dedicated business is the new leader within JBHT and is underappreciated by investors. Risk-reward/valuation is somewhere between TLs (positive) and Rails (negative). We remain EW.	*Favorable contracts with BNSF provides long-term competitive advantage Dedicated is a fast growing part of Transportation Improving rail service should aid intermodal volume growth and margins Clean balance sheet with minimal leverage	Valuation not cheap relative to history We expect IM to lose share to truck in the long term New digital entrants to pressure ICS results
KNX.N OW	KNX is our overall Top Pick. We believe KNX's scale and exposure can make them the biggest beneficiary of ELD /regulatory benefits, where our expectations are above consensus. The SWFT merger has also been a success with more upside to come and we believe KNX can be a fast follower with new intelligent trucking technologies. Valuation is very attractive vs. historical levels as well. KNX is the best way to play cyclical TL upside and secular tailwinds from intelligent trucks.	As the largest TL by far and one of the most exposed to the spot market, KNX could be the single biggest beneficiary of ELDs Post merger synergies and cost opportunities abound KNX can be a game-changer with intelligent trucks – if it so chooses	Benefits of ELD to the whole TL industry and KNX in particular could be overestimated Driver shortage could mitigate ELD benefits
LSTR.O	Exposure to more cyclical flatbed markets drives more downside at LSTR vs. 3PL peers. 100% spot exposure also leaves LSTR more cyclically exposed than peers. While flatbed (30% of the business) may be somewhat more protected from secular/digital disruption than the rest of the business, new entrants are about to target this area as well. Valuation is also expensive.	Unique business model an advantage over other 3PLs during periods of tight capacity ROE among the best in its peer group Share buybacks represent significant potential tailwind to earnings	Difficult case for improving margins and returns at core franchise As a larger, more mature 3PL, LSTR more directly faces industry headwinds than smaller peers
NSC.N UW	We believe NSC has a topline issue instead of a cost issue, with revenues significantly eroded by the decline of coal and a highly competitive IM market in the East. We expect the revenue headwinds to continue. The market is focused on PSR cost gains but we believe consensus expectations may be too high for NSC, esp. given the need to grow topline to deliver PSR gains.	NSC can achieve operating leverage when volumes rebound Efficiency savings could exceed consensus and our expectations NSC's cash return is relatively strong with the highest dividend yield and a stable stock buyback	Cost cutting potential exists but may not be as large as some believe NSC will continue to experience top line headwinds given end market exposure
ODFL.O EW	We favor ODFL the most among the LTLs as superior execution and cost advantage vs. peers should continue to drive market share gains as well as class-leading profitability. With the LTL cycle showing signs of upward inflection, ODFL's traditional share gains vs. peers should resume. We also see defensiveness in the case of a macro downside. While valuation is rich, it is deservedly so and the stock has been very resilient in a choppy market YTD.	Structural advantages drive attractive EBIT growth vs. peers Scale and attractive balance sheet could make ODFL an early beneficiary of intelligent trucks	Peak margins limit degree of margin expansion opportunity New competition from regional entrants becoming national Extreme cycle deterioration has driven significant industry competition in the past

Source: Company Data, Morgan Stanley Research



Exhibit 12: Freight Thesis Overview (Cont'd)

Ticker	Investment Thesis	Investment Positives	Investment Negatives
SAIA.O UW	We believe Saia falls in between its LTL peers – it does not approach the operating quality of ODFL or the diversification and valuation of ARCB. While Saia is a good executor with a good strategy, we believe the market has been too generous with pricing in OR gains in the implied multiple when there is a long way to go.	Investor positioning can drive stock volatility in both directions Northeast expansion should help drive growth	Not the same quality as ODFL Not as cheap or as diversified as ARCB Macro improvement could drive upside
SNDR.N OW	We see SNDR as well positioned to benefit from an improving truckload demand environment, structural supply tightening, IMC gains, the secret sauce of the Quest system, and technology leadership taking advantage of secular gains from intelligent trucks. Lapping the losses of the now-shuttered FTFM business in 2020 gives SNDR some of the easiest margin comps in the group. Further, its below-peer valuation remains attractive.	Large, diversified trucking company with strong, stable management team Technology focus should help drive operating superiority (Quest system) as well as longer term competitive advantage (intelligent trucks)	Trucking cycle is deeply cyclical and macro visibility remains poor Diversification is a good thing but our LT view on Intermodal and Logistics is somewhat bearish
TFII.N	We believe TFII offers an attractive entry point for a high quality asset-right transportation business. The company's roll up strategy has driven impressive returns over the last decade, and while leverage appears high versus peers, we believe the level is sustainable. With ample white space for accretive M&A, we see room for multiple expansion toward its peers, closing a multi-turn discount that drives our Overweight rating.	Continued M&A accretion (not included in Mse) could drive significant upside to our model if full FCF deployment As the largest TL carrier in Canada, TFI serves to benefit from a continued push toward intelligent trucking (given balance sheet capacity)	Acquisition underctainty may cause investors to award a discount to stock. If a deal falls through/weak execution, story can be negatively affected.
TSP.O OW	We view TSP as a leader in commercial AV trucking, with access to an \$800 bn+ TAM in US alone and relatively few competitors, which it looks to be leading. The company has a clear and somewhat binary catalyst ahead of it in the "Driver Out" test but once successfully cleared, the event path to commercial launch in 2024 is straight forward and the value proposition of the product (60%+ savings on truck op. costs + adjacent gains) is clear. The risk-reward is wide but at a 4:1 ratio, is strongly skewed to the upside. For now, TSP is the only non-hardware, services-driven pure-play on AV driving in the public markets, certainty in commercial trucking but likely including passenger cars, too.	Market does not apply as steep of an execution discount Commercial production ramps faster than we expect Market consolidation accelerates & pricing power is even stronger	Driver Out test fails Market applies a larger execution discount until Driver Out or some execution discount persists after Driver Out Competitor launches a superior product (incl. L5) / gets to commercial production faster
UNP.N EW	We have a bearish outlook on several end markets including intermodal and coal. We also worry about PSR implementation during a potential macro slowdown and high investor expectations on LT sustainable OR. While UNP's mgmt. team is highly accomplished, revenue headwinds may overwhelm.	Franchise is highly diverse and relatively defensive (PRB coal, longer length of haul intermodal, and MX exposure) Very strong operator behind Canadian rails PSR turnaround improves margins	Though defensive vs. the Eastern rails, UNP still has high coal and auto exposure Western rail peers and trucks become more competitive which further closes gap between price and inflation PSR execution risk
UPS.N UW	We see competitive secular threats to the Parcel business as a triple threat of (1) Insourcing by eCommerce giants (2) Omnichannel shift enabling last mile competition from mid-size retailers and (3) Platformization of small-shipper volumes. Together, these trends could erode returns in the BZC space, which has been a huge driver of growth for the legacy parcels in recent years. Despite its strong operating metrics, UPS could be more at risk of disruption given its larger BZC business (and AMZN exposure), fewer self-help initiatives than FDX and more expensive valuation.	A strong balance sheet with leading ROIC and FCF Industry leading position and strong operating quality continues to drive industry-leading margins Valuation is relatively attractive vs. U.S. peers based on MSe	Most exposed to potentially growing competition in the Parcel space Exposed to macro risk, especially in the Ground business Absolute valuation higher than FDX
USX.N EW	2022 will be a pivotal year for USX as they juggle the continued rollout of Variant, the transition of Logistics to a growth platform and the potential end of the cycle in 2H22. While we continue to believe in the story and the Variant opportunity, the big reset and cycle risk mean that it appears unlikely that USX will demonstrate its \$1 normalized EPS potential any time soon. In the meanwhile, the management team has stated that they are running the business for the long term vs. quarterly results (which is the right call) but probably implies that the stock remains range bound in the \$4-6 range for the medium term.	Strong franchise, #5 market position and segment footprint make USX a beneficiary of TL market structural strength Potential to close the OR gap vs. peers as operating execution and market conditions improve	Trucking cycle is deeply cyclical and macro visibility remains poor Higher than peer leverage could weigh on investor sentiment in the event of a macro downturn
WERN.O OW	WERN's high Dedicated exposure (60% of trucking business) provides them relative stability and defensiveness among TL peers given LT contracts and relatively sticky pricing. However, this does not mean WERN cannot capitalize on cyclical upside from demand improvement as well as regulatory driven supply tightness in the coming years. We also believe WERN can be a fast follower in the truck technology race.	As one of the largest TLs we cover, WERN is a scale and trucking technology play Large dedicated segment helps near term defensibility Benefit from tightening capacity due to regulatory driven supply rationalization	Macro weakness leads to lower rates, lower miles, and higher empty miles Trucking cycle deeply cyclical and visibility remains poor
XPO.N OW	The "new" XPO is a relatively rare combination of asset- heavy LTL combined with asset-light brokerage and a European business. The range of peer quality/multiples is very wide and it may be a while before market determines XPO's true place on its new block. Further asset sales/spins later this year will simplify the story into a pure-play LTL.	Exposure to secular growth in multiple outsourced transportation markets by leveraging the use of technology Potential to reach industry-leading LTL margins SOTP strategy could unlock significant value	SOTP/breakup strategy could result in share-loss and value destruction Execution risk / Key man risk Relatively high leverage vs. peers though FCF is defensive

For valuation methodology and risks associated with any price targets, ratings or recommendations referenced in this research report, please contact the Client Support Team as follows: US/Canada +1 800 303-2495; Hong Kong +852 2848-5999; Latin America +1 718 754-5444 (U.S.); London +44 (0)20-7425-8169; Singapore +65 6834-6860; Sydney +61 (0)2-9770-1505; Tokyo +81 (0)3-5424-4349. Alternatively you may contact your investment representative or Morgan Stanley Research at 1585 Broadway, (Attention: Research Management), New York, NY 10036 USA.

Source: Company Data, Morgan Stanley Research



Performance Review

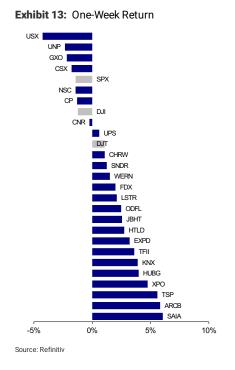


Exhibit 14: One-Month Return GXO CSX UPS XPO NSC UNP CHRW JBHT HTLD CNR WERN -40% -30% -20% -10%

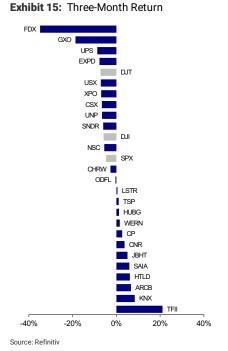


Exhibit 16: Year-To-Date Returns

Source: Refinitiv

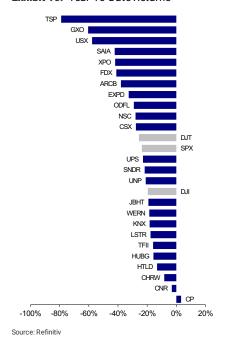
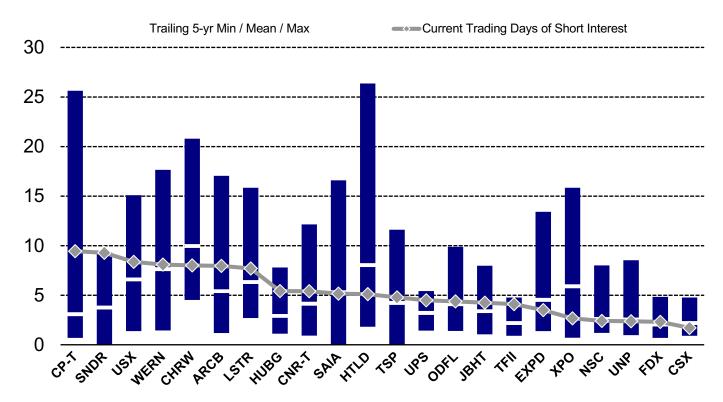


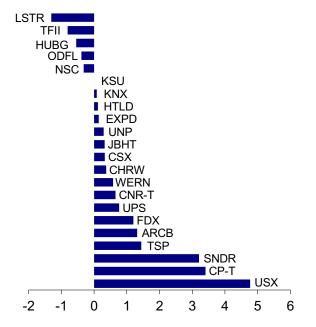
Exhibit 17: Current Short Interest Days Outstanding





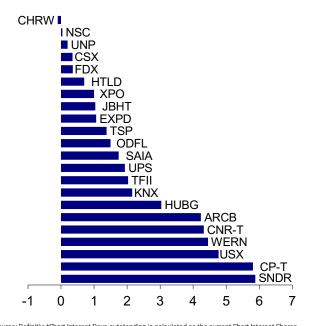
Source: Refinitiv, *Short Interest Days outstanding is calculated as the current Short Interest Shares Outstanding / the Avg Daily Volume over the last month.

Exhibit 18: Short Interest Days 1-Mo. Change



Source: Refinitiv; *Short Interest Days outstanding is calculated as the current Short Interest Shares Outstanding / the Avg Daily Volume over the last month

Exhibit 19: Short Interest Days 3-Mo. Change

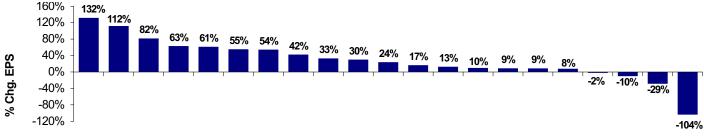


Source: Refinitiv, *Short Interest Days outstanding is calculated as the current Short Interest Shares Outstanding / the Avg Daily Volume over the last 3 months



2022 Consensus Earnings Revision Trends

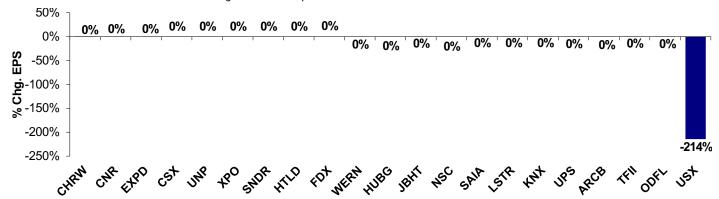
Exhibit 20: 3Q22 QTD Consensus Earnings Revisions



MECHUBCHEN TEIL SHIETE SHOW KINDLET STEIBHI CST WEEN HILD CHE MEC UND UPS EDT TOO 187

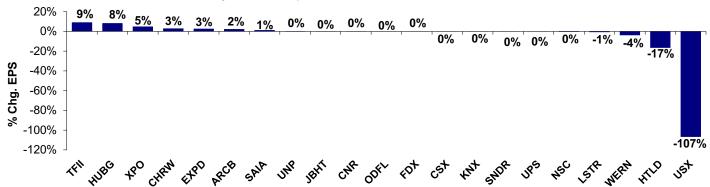
Source: Refinitiv, Morgan Stanley Research

Exhibit 21: 1-Month 2022 Consensus Earnings Revisions: Impact on EPS



Source: Morgan Stanley Research, Refinitiv

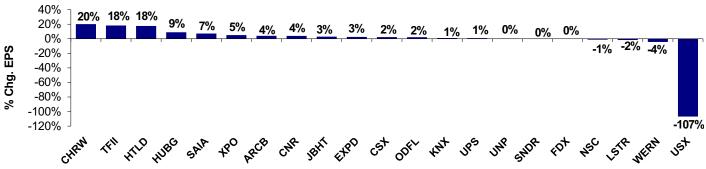
Exhibit 22: 2-Month 2022 Consensus Earnings Revisions: Impact on EPS



Source: Morgan Stanley Research, Refinitiv



Exhibit 23: 3-Month 2022 Consensus Earnings Revisions: Impact on EPS

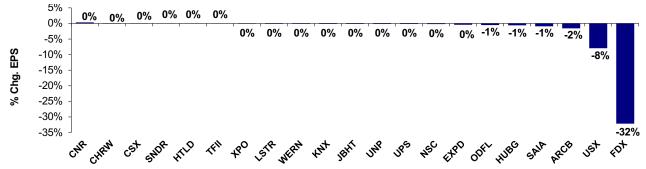


Source: Morgan Stanley Research, Refinitiv



2022 Consensus Earnings Revision Trends

Exhibit 24: 1-Month 2022 Consensus Earnings Revisions: Impact on EPS



Source: Morgan Stanley Research, Refinitiv

Exhibit 25: 2-Month 2022 Consensus Earnings Revisions: Impact on EPS

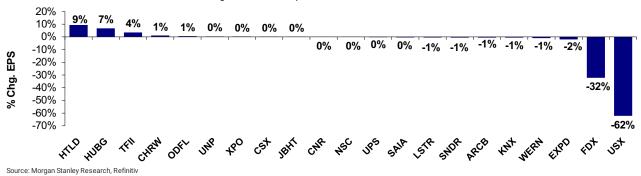
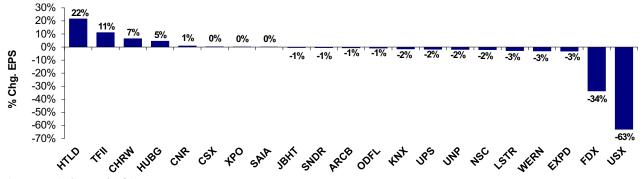


Exhibit 26: 3-Month 2022 Consensus Earnings Revisions: Impact on EPS



Source: Morgan Stanley Research, Refinitiv



Freight Valuation Overview

Exhibit 27: Current vs. 10-Year Historical Twelve-Month Forward P/E and Twelve-Month Forward P/E Relative to S&P 500

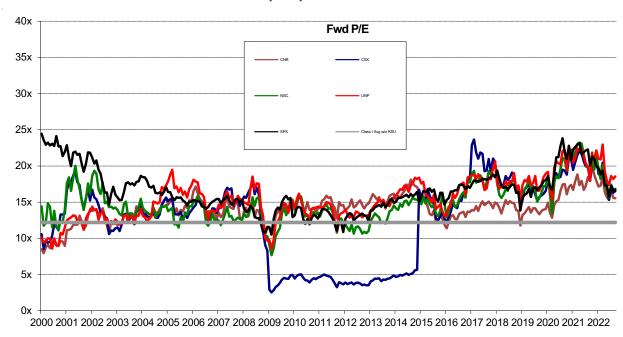
9/29/2022	9/30/2022			TMF F					TMF P/E	Relative to		
					10-Yr I	list.				10-Yr I	Hist.	
		Current Based	Current Based on					Current Based on				
Company	Ticker	on MSe	Cons.	Trough	Median	Avg.	Peak	MSe	Trough	Median	Avg.	Peak
Rails	Rails	<u> </u>		ii ougii	modian	, g.	1 Guit		ii ougii	modicii	, g.	1 Ocat
Canadian National	CNR-T	19.8x	19.6x	14.1x	18.6x	18.9x	25.0x	125%	77%	108%	106%	124%
CSX	CSX	15.8x	14.0x	10.5x	16.8x	16.8x	23.7x	100%	70%	93%	94%	131%
Norfolk Southern	NSC	16.2x	14.8x	10.6x	16.5x	16.7x	23.9x	102%	74%	93%	93%	108%
Union Pacific	UNP	18.7x	16.3x	12.9x	17.6x	17.7x	23.6x	118%	73%	101%	99%	114%
Class I Rail Average		16.9x	19.6x	12.7x	17.5x	17.8x	25.7x	106%	59%	100%	100%	135%
Parcel	Parcel											
FDX	FDX	12.1x	9.6x	8.9x	13.8x	13.9x	20.7x	76%	47%	82%	82%	113%
UPS	UPS	15.8x	12.9x	11.5x	17.5x	16.9x	22.7x	100%	61%	99%	98%	122%
Parcel Average		13.9x	11.2x	10.2x	15.7x	15.4x	21.7x	88%	54%	90%	90%	117%
Logistics	3PLs											
C.H. Robinson	CHRW	17.7x	13.0x	13.0x	19.0x	19.2x	26.5x	111%	66%	114%	112%	152%
Expeditors	EXPD	18.1x	13.3x	13.2x	20.9x	20.9x	26.7x	114%	66%	124%	123%	164%
Hub Group	HUBG	10.1x	8.1x	7.9x	17.6x	17.2x	24.3x	64%	45%	103%	102%	141%
JB Hunt	JBHT	19.4x	17.0x	14.4x	21.5x	21.2x	27.5x	122%	78%	118%	122%	164%
Landstar	LSTR	15.9x	14.5x	13.4x	19.1x	19.5x	27.9x	100%	64%	115%	114%	143%
XPO Logistics	XPO	9.1x	7.7x	7.7x	22.6x	21.5x	34.9x	57%	NM	NM	NM	NM
Logistics Average	_	15.1x	12.3x	11.6x	20.1x	19.9x	28.0x	95%	64%	115%	115%	153%
Truckload	TL											
Heartland	HTLD	13.2x	12.4x	12.4x		21.1x	32.7x	83%	60%	129%	124%	173%
Knight	KNX	10.2x	10.1x	9.1x		17.8x	33.6x	64%	42%	110%	107%	186%
Schneider	SNDR	8.7x	8.5x	9.9x		16.5x	25.8x	55%	46%	79%	84%	135%
US Xpress	USX	21.2x	130.5x	9.9x	15.9x	16.5x	25.8x	133%	-1060%	43%	33%	712%
Werner	WERN	11.3x	10.4x	9.9x	15.9x	16.5x	25.8x	71%	46%	100%	97%	142%
TL Average		12.9x	34.4x	10.3x	17.4x	17.9x	29.5x	68%	49%	104%	103%	159%
Less-Than-Truckload	LTL	٥٥.	r 7	- 4	40.0.	40.0.	24.2.	200/	200/	700/	040/	4.440/
Arkansas Best	ARCB	6.2x	5.7x	5.4x		13.6x	31.3x	39%	32%	76%	81%	144%
Old Dominion	ODFL	21.9x	21.2x	13.8x	21.0x	22.1x	36.2x	138%	91%	120%	121%	161%
Saia	SAIA	15.9x 14.7 x	14.1x 13.7x	9.1x 9.4 x	17.4x 17.2 x	18.6x 18.1x	34.5x 34.0x	100% 92%	68% 64%	102% 100%	103% 101%	139%
LTL Average		14.7X	13.7X	9.4X	17.2X	10. IX	34.UX	92%	04%	100%	101%	148%
S&P 500	.SPX-UT		15.9x	13.1x	16.9x	18.0x	29.9x					

 $Source: Company \ data, Refinitiv, Morgan \ Stanley \ Research, \ Note: FDX\ TMF\ P/E\ multiple\ is\ based\ on\ calendarized\ EPS.$



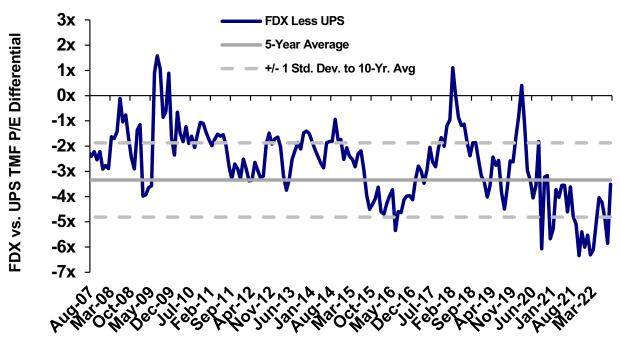
Valuation

Exhibit 28: Rail Valuation: Twelve-Month Forward P/E by Entity



Source: Company data, Morgan Stanley Research, Refinitiv

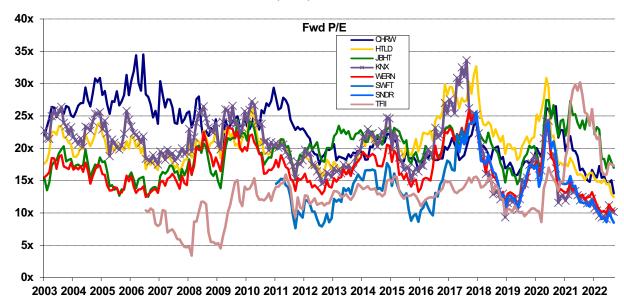
Exhibit 29: Parcel Valuation: FDX vs. UPS TMF P/E Differential



Source: Refinitiv, Morgan Stanley Research

UPDATE

Exhibit 30: Truck Valuation: Twelve-Month Forward P/E by Entity



Source: Refinitiv, Morgan Stanley Research



Rail Industry Trends

Exhibit 31: AAR Weekly Traffic Data

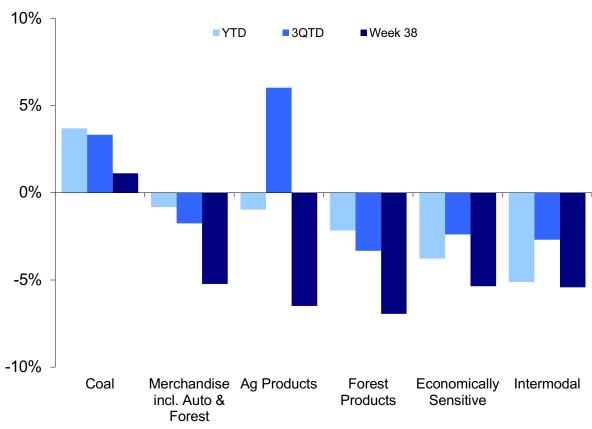
Other Farm Products																										
September-24-22																										
ALL CLASS I RAILROADS					2010																			lawret West or of		
CARLOADS ORIGINATED		2018			2019				2020				2021				2022				4 Week		% of			
BY COMMODITY:	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19	2019	1Q20	2Q20	3Q20	4Q20	2020	1Q21	2Q21	3Q21	4Q21	2021	1Q22	2Q22	3Q22	YTD	Trend		traffic
Grain	-3.8%	4.4%	13.9%	-1.6%	-4.4%	-5.8%	-7.7%	-5.0%	-5.7%	-6.0%	-5.7%	4.4%	26.2%	4.9%		13.2%	-13.4%	-7.9%	4.4%		-7.9%	5.6%	-4.4%	3.6%	-10.4%	4.4%
Other Farm Products	-1.4%	-0.8%	-0.8%	-12.2%	-8.6%	-6.4%		-10.4%	-6.5%	15.8%	17.8%	3.3%	12.4%	12.3%	-3.8%	-5.9%		-17.9%	0.1%		-16.0%	16.8%	-6.9%	14.9%	9.3%	0.1%
Metallic Ores	26.7%	-3.6%	-1.5%	-2.5%	-8.4%	4.0%	0.5%	1.3%	-0.7%	6.9%	-52.4%		-13.0%	-26.4%	7.3%	161.4%	74.2%	22.8%	0.8%	-2.2%	-10.5%	-6.5%	-6.5%	-13.3%	-32.3%	0.8%
Coal	-1.0%	0.1%	-2.3%	1.5%	-8.1%	-2.1%		-15.7%	-9.0%	-16.2%	-37.8%			-24.7%	-6.0%	34.4%	12.1%	8.3%	13.3%	10.2%	-1.9%	3.3%	3.7%	3.0%	1.1%	13.3%
Crushed Stone, Sand	6.1%	9.9%	0.5%	-9.5%	-6.3%	-11.9%	-6.1%	-7.7%	-8.2%	-9.9%				-17.4%	-17.3%	4.9%	9.6%	13.5%	4.0%	15.1%	5.1%	7.8%	8.9%	11.4%	10.5%	4.0%
Nonmetallic Minerals	-16.3%	-16.3%	-11.5%	0.6%	9.3%	4.7%	8.1%	-1.6%	5.0%	-7.8%		-16.2%	-14.6%	-11.4%	-11.6%	3.3%	7.4%	1.9%	0.7%	4.1%	-6.7%	-2.6%	-2.1%	-9.3%	-17.3%	0.7%
Grain Mill Products	0.7%	5.4%	7.3%	-1.7%	-3.9%	-5.9%	-5.5%	-2.6%	-4.5%	3.0%	-6.8%	1.1%	3.0%	0.1%	0.5%	7.9%	-2.6%	3.8%	1.9%	1.3%	1.6%	4.9%	2.5%	3.0%	-4.1%	1.9%
Food & Kindred Products	-3.1%	0.9%	3.8%	2.3%	-1.7%	-1.4%	4.1%	-4.3%	-2.9%	-1.1%	-13.0%	-0.1%	2.6%	-2.8%	1.3%	14.7%	0.4%	5.2%	1.3%		6.7%	8.0%	7.8%	4.0%	2.2%	1.3%
Primary Forest Products	-8.1%	-5.2%	-4.1%	-9.0%	0.8%	6.4%	6.0%	8.9%	5.5%	-2.5%		-16.6%	-14.8%	-11.8%	-7.6%	3.1%	5.2%	8.7%	0.2%	9.2%	17.5%	17.6%	14.7%	24.4%	30.2%	0.2%
Lumber & Wood	6.7%	5.3%	8.0%	1.3%	-3.4%	-5.8%	-8.5%	-6.0%	-5.9%		-13.1%	-0.5%	4.2%	-2.2%	-0.1%	23.6%	-1.4%	4.5%	0.7%	1.7%	-8.5%	1.1%	-2.2%	-3.9%	-3.5%	0.7%
Pulp & Paper	-0.6%	2.1%	5.1%	2.4%	1.8%	-7.2%	-8.8%	-7.7%	-5.6%	-5.4%	-8.0%	-7.2%	-1.3%	-5.4%	4.4%	15.9%	14.8%	3.7%	1.1%		-4.2%	-9.4%	-5.2%	-12.7%	-15.2%	1.1%
Chemicals	3.0%	4.5%	5.8%	1.8%	-1.0%	0.7%	-0.4%	-2.1%	-0.7%	3.2%	-12.8%	-5.5%	1.7%	-3.4%	-3.7%	17.1%	5.0%	5.5%	6.7%		0.6%	0.1%	3.4%	2.0%	-5.6%	6.7%
Petroleum	3.3%	10.3%	32.1%	28.0%	22.0%	24.4%	4.8%	1.1%	12.2%	3.6%	-25.1%	-15.2%	-18.2%	-14.0%	-14.4%	8.8%	-2.2%	-7.0%	1.9%	-15.3%	-10.9%	-5.6%	-10.8%	-5.4%	-10.0%	1.9%
Stone, Clay, Glass	-0.1%	3.7%	6.7%	-3.8%	1.0%	-2.5%	3.9%	3.8%	1.6%	3.5%	-5.2%	-8.1%	2.3%	-2.2%	-2.6%	12.5%	4.0%	0.9%	1.5%		-6.1%	-6.8%	-3.9%	-7.0%	-11.1%	1.5%
Coke	-6.8%	1.7%	0.6%	-7.1%	-9.6%	-11.2%		-12.7%	-11.7%	3.3%	-25.8%	-22.5%		-16.1%		21.0%	28.2%	18.6%	0.7%		-4.8%	-2.0%	-2.4%	-5.7%	-10.3%	0.7%
Metals Motor Vehicles	1.6%	7.2% 1.2%	10.2% 3.4%	8.3% -1.9%	3.0% -1.0%	-6.2% -3.4%	-12.0% -1.9%	-14.1% -5.6%	-7.4% -3.0%	-6.8%	-30.5% -65.4%	-18.0%	-3.1%	-14.7%	-1.5% -3.5%	51.4% 90.1%	27.1%	8.3%	1.7%		-11.0% 8.6%	-17.0% 9.1%	-9.8%	-16.2%	-19.5% 13.1%	1.7%
Iron & Steel Scrap	-6.2%		4.3%	9.0%	0.5%	-9.2%	-9.9%	-15.3%	-8.4%	-6.8%		-1.2%	-1.0%	-19.2% -2.3%	3.1%		22.8%		0.8%		3.9%	-6.2%	1.3%	17.8%	-6.0%	0.8%
	-1.3%	6.4%	4.1%			-9.2% -1.5%				1.1%	-24.9%	-1.7%	18.1%			53.6% 18.9%		14.0%	0.8%	5.1%		-6.2% -5.9%		-7.9%	-6.0%	
Waste & Scrap All Other	-9.8% 0.7%	-6.8% -0.3%	6.2%	4.1% 9.5%	5.7% -4.6%	-0.6%	7.9%	-13.5% 2.5%	-5.6% 1.3%	-2.3% 10.1%	-11.2% 3.0%	-0.1% -11.0%	8.1% -1.6%	-1.3% -0.2%	0.0% -8.5%	10.1%	11.6%	4.9% -6.6%	1.1%	-10.2%	4.6%	-15.9%	1.2%	-10.2% -15.1%	-9.0%	0.8% 1.1%
TOTAL COMMODITY	-0.3%	2.7%	3,5%	1.0%	-3.1%		-5.4%	-8.2%	-4.8%					-12.9%	-2.8%	23.6%	4.8%				-2.3%	0.9%	0.4%			
TOTAL COMMODITY	-0.3%	2.776	3.3%	1.076	-3.1%	-2.6%	*0.476	-0.2%	-4.076	-6.1%	-25.1%	-14.5%	-5.5%	-12.9%	-2.6%	23.0%	4.0%	3.3%	46.5%	2.8%	*Z.37e	0.9%	0.4%	0.9%	-3.0%	40.0%
Excluding Coal	0.1%	3.9%	6.5%	0.8%	-0.7%	-2.8%	-3.4%	-4.5%	-2.9%	-1.6%	-19.5%	-8.9%	0.0%	-7.6%	-1.6%	19.9%	2.1%	1.4%	33.2%	0.2%	-2.5%	-0.1%	-0.9%	0.1%	-5.5%	33.2%
Excluding Coal & Ag	0.9%	3.9%	5.5%	1.5%	0.2%	-2.1%	-2.6%	-4.5%	-2.3%	-1.3%	-23.1%	-12.0%	-4.7%	-10.4%	-6.1%	22.7%	5.6%	3.2%	25.5%	1.5%	-2.1%	-1.8%	-0.8%	-0.9%	-5.2%	25.5%
INTERMODAL																										
Trailers	15.3%	23.7%	19.6%	5.6%	-0.9%	-15.7%	-18.9%	-23,2%	-14.9%	-25.3%	-13.8%	11.5%	20.0%	-2.7%	27.1%	16.7%	-12.1%	-9.5%	3.4%	-12.1%	-23.9%	-26.9%	-20.6%	-26.9%	-28.0%	3.4%
Containers	4.6%	5.1%	4.8%	3.8%	-0.5%	-4.7%	-4.5%	-6.6%	-4.1%		-12.5%	1.9%	10.1%	-1.8%		22.6%	-2.5%	-8.4%	50.1%		-4.0%	-0.7%	-3.8%	-1.3%		50.1%
TOTAL INTERMODAL	5.5%	6.5%	6.0%	3.9%	-0.6%	-5.7%	-5.8%	-8.2%	-5.1%		-12.6%	2.6%	10.9%	-1.8%		22.1%	-3.3%	-8.5%	53.5%	-6.9%	-5.5%	-2.7%	-5.1%	-3.1%		
TOTAL VOLUME	2.6%	4.7%	4.8%	2.5%	-1.8%	-4.2%	-5.6%	-8.2%	-5.0%	-7.4%	-18.7%	-5.7%	3.1%	-7.2%	5.5%	22.8%	0.3%	-3.3%	100.0%	-2.6%	-4.1%	-1.1%	-2.6%	-1.2%	-4.6%	100%

Source: Company data, Morgan Stanley Research, AAR



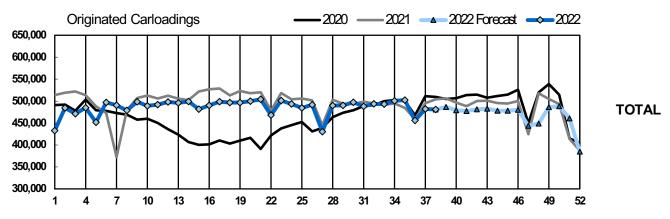
Total Industry Volume Trends

Exhibit 32: YoY % Traffic Growth



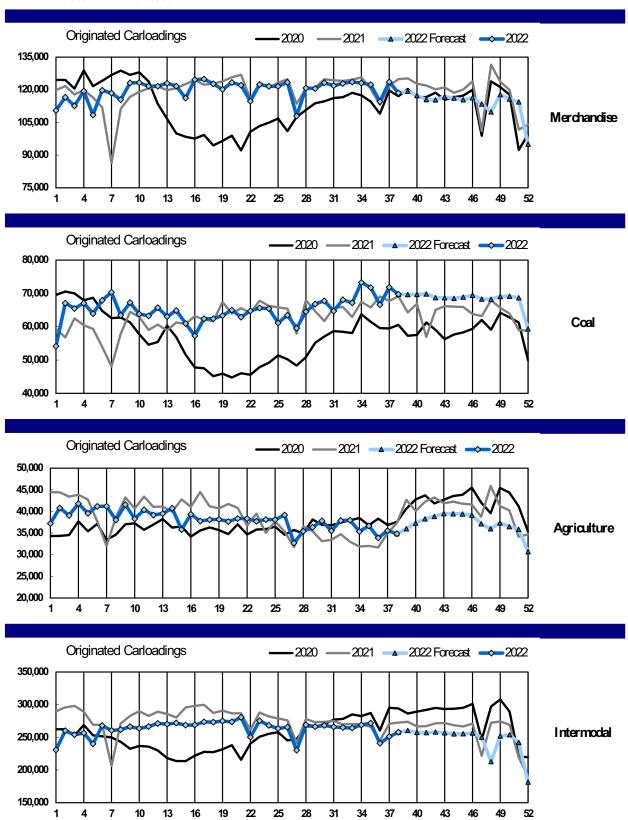
Source: Company data, Morgan Stanley Research, AAR, Current as of Week 35. Merchandise is carloads excluding coal, agricultural products and intermodal.

Exhibit 33: Class I Traffic Forecast



Source: Company data, Morgan Stanley Research, AAR, Current as of Week 35

Exhibit 34: Class I Traffic Forecast



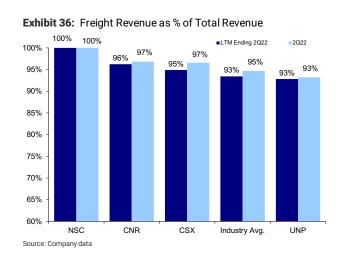
Source: Company data, Morgan Stanley Research, AAR, Current as of Week 35

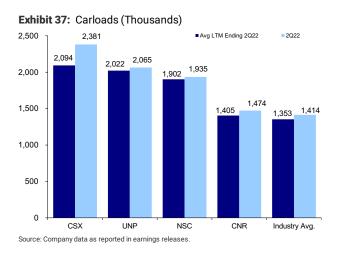


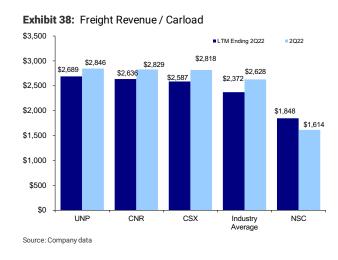
2Q22 Financial Review

Source: Company data

Exhibit 35: Total Revenue (Millions) \$9,000 \$8,412 ■ Avg LTM Ending 2Q22 **2**Q22 \$8,000 \$7,000 \$6,269 \$6,000 \$5,707 \$5,000 \$3.849 \$4,000 \$3,648 \$2,936 \$3,124 \$3,103 \$3,000 \$2,000 \$1,000 \$0 CSX CNR Industry Avg.









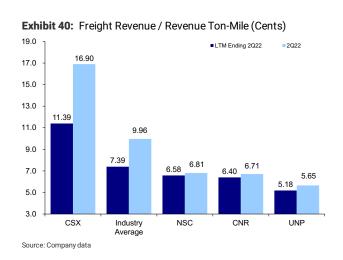
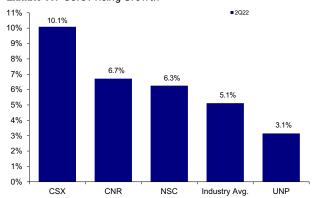




Exhibit 41: Core Pricing Growth



Source: Company data, Core Pricing growth data taken as most relevant core pricing metric provided by the company. CSX is reported on a same-store basis.

Exhibit 42: Average RTM / Carload (Thousands)

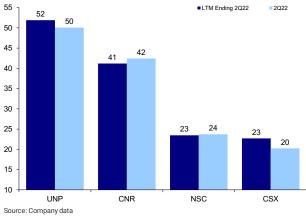
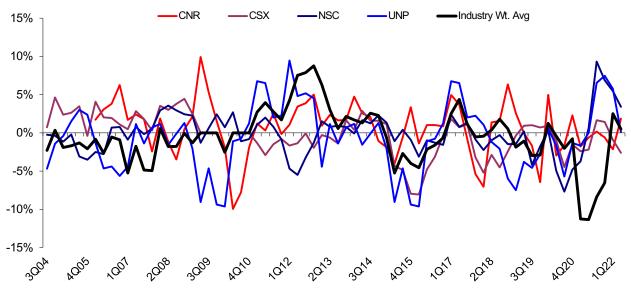


Exhibit 43: Average RTM / Carload YoY % Change



Source: Company data



Intermodal and Coal Volume Trends

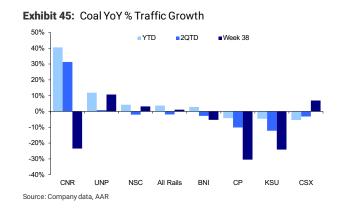
Exhibit 44: Intermodal YoY % Traffic Growth

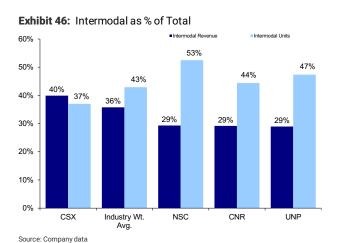
15%
10%
5%
-10%

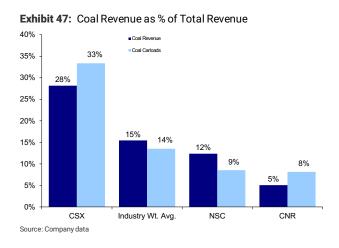
-15%

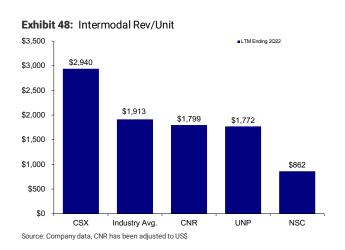
Source: Company data, AAR

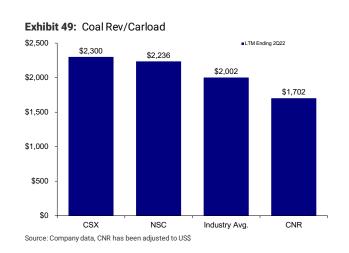
KSU













Ag Products and Merchandise Volume Trends

Exhibit 50: Ag Products YoY % Traffic Growth



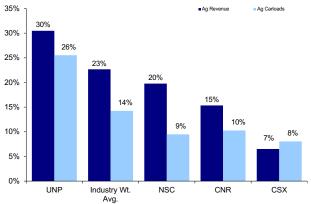
Source: Company data, AAR

Exhibit 51: Merchandise YoY % Traffic Growth



Source: Company data, AAR, Merchandise is carloads excluding coal, agricultural products and intermodal.

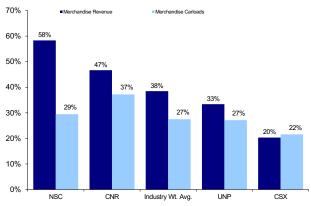
Exhibit 52: Ag Products as % of Total



Source: Company data

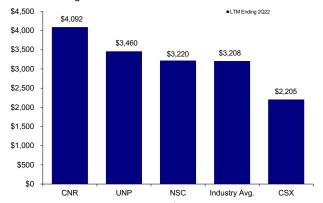
Exhibit 53: Merchandise as % of Total

Exhibit 55: Merchandise Rev/Carload

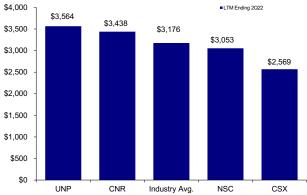


Source: Company data, Merchandise is carloads excluding coal, agricultural products and intermodal.

Exhibit 54: Ag Products Rev/Carload



Source: Company data, CNR has been adjusted to US\$, Merchandise is carloads excluding coal, agricultural

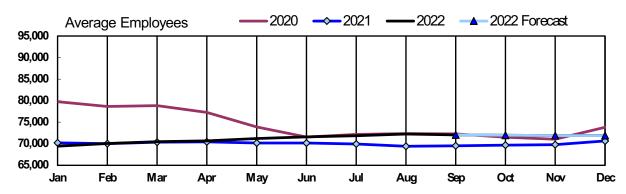


Source: Company Data



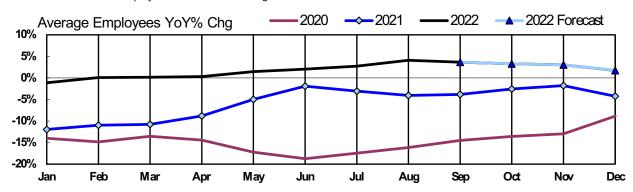
STB Employment Data

Exhibit 56: US Class I's Data



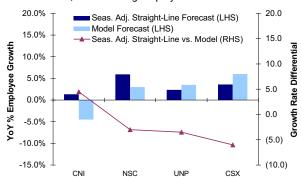
 $Source: Morgan \, Stanley \, Research, STB \, Data, \, US \, Class \, I's \, exclude \, BNI \, and \, Mexico \, operations \, of \, KSU \, I's \, exclude \, BNI \, and \, Mexico \, operations \, of \, KSU \, I's \, exclude \, BNI \, and \, Mexico \, operations \, of \, KSU \, I's \, exclude \, BNI \, and \, I's \,$

Exhibit 57: US Class I's Employment Data YoY % Change



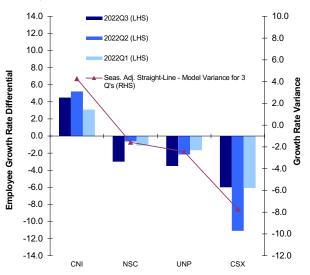
Source: Morgan Stanley Research, STB Data, US Class I's exclude BNI and Mexico operations of KSU

Exhibit 58: 2Q22 YoY % Chg Employee Forecast



Source: Company data, Morgan Stanley Research, STB Data

Exhibit 59: STB Employee YoY Growth Forecast vs. Actual Results for Last 3 Quarters



Source: Company data, Morgan Stanley Research, STB Data, The growth rate differential is calculated as the difference between STB and Model growth rates averaged over the last 3 quarters



Productivity

Exhibit 60: Average Number of Employees



Source: Company data, reflects information given from company releases and shown as average of LTM

Exhibit 61: Rail Fuel as % of Total Expense

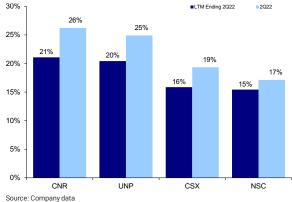
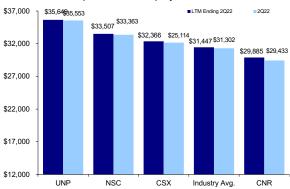
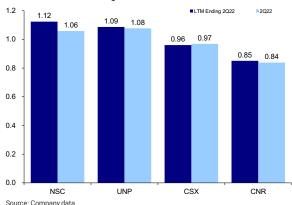


Exhibit 62: Compensation / Employee



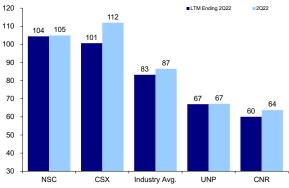
Source: Company data, reflects average over LTM, CNR has been adjusted to US $\$

Exhibit 63: Rail Average Gallons Consumed / Thousand GTM



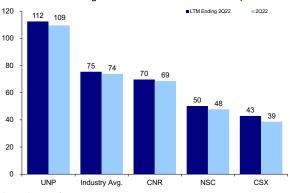
Source: Company data

Exhibit 64: Carloads / Average Employee



Source: Company data, Average Employee numbers reflect an average of LTM

Exhibit 65: Rail Avg Gallons Consumed / Carload (Thousands)



Source: Company data



Performance Measurements

Exhibit 66: Class I Average Train Speed History

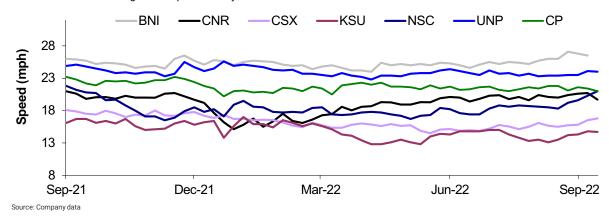


Exhibit 67: Class I Average Terminal Dwell Time History

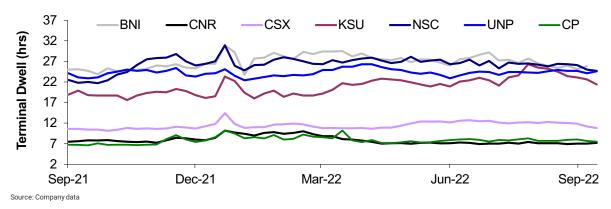
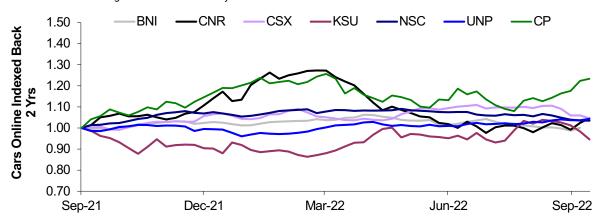


Exhibit 68: Class I Freight Cars On Line History



Source: Company data. Beginning on 3/14/14, the Ulmer system, the N. American rail industry's registry of freight equipment, started to report a previously excluded portion of the industry's rail car fleet. The system is unable to restate historical data; hence, the data shows an increase in freight cars on line for all carriers.



Rail Trends by Company

Exhibit 69: Volume Growth YoY by Rail

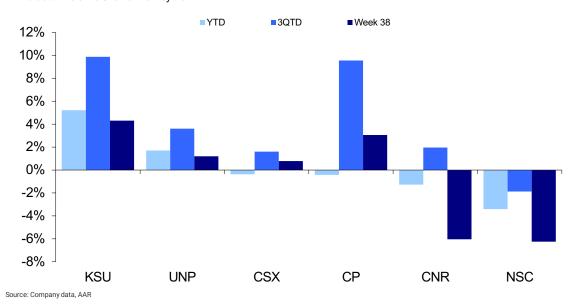
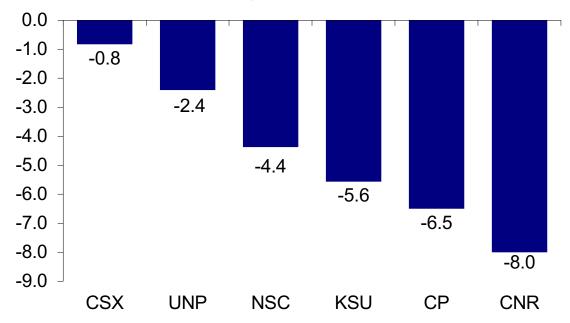


Exhibit 70: Growth Rate Differential: Week 38 vs. 3QTD

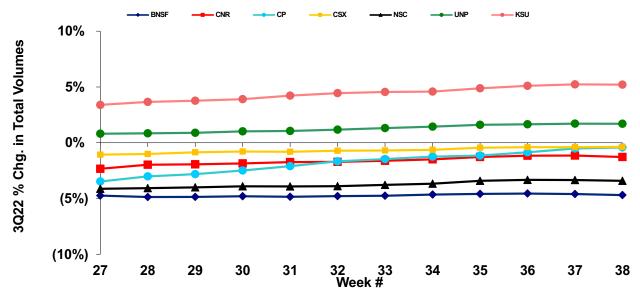


Source: Company data, AAR



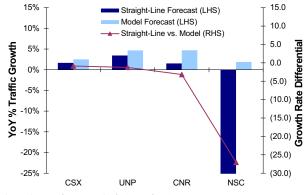
Rail Trends vs. MS Models

Exhibit 71: Cumulative QTD Total Traffic Trends by Class I Rail



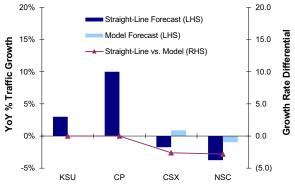
Source: Company data, AAR

Exhibit 72: Total Volume Forecast for 2Q22 vs. Model



Source: Company data, Morgan Stanley Research, AAR

Exhibit 73: Total Volume Forecast for 2022 vs. Model

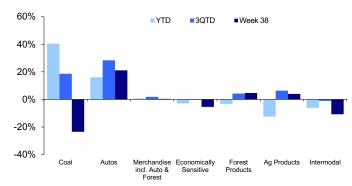


Source: Company data, Morgan Stanley Research, AAR



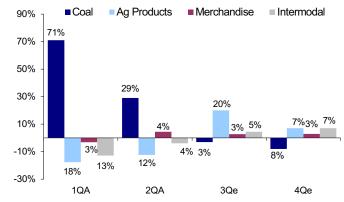
CNR Volume Trends

Exhibit 74: YoY % Traffic Growth



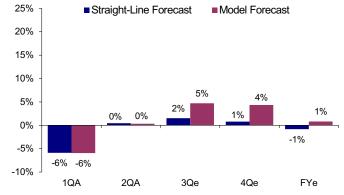
Source: Company data, Morgan Stanley Research, AAR. Merchandise is carloads excluding coal, agricultural

Exhibit 75: MSe Quarterly YoY % Traffic Growth by Type



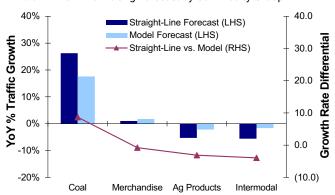
Source: Company data, Morgan Stanley Research estimates

Exhibit 76: YoY % Total Traffic Growth by Q and FY



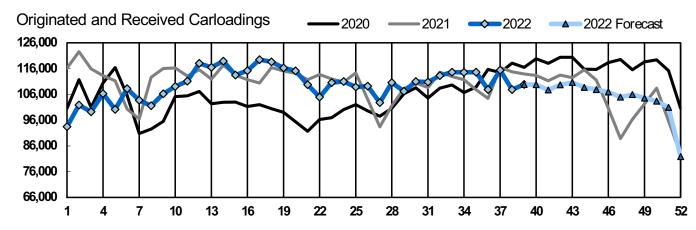
Source: Company data, Morgan Stanley Research estimates, AAR

Exhibit 77: 2022 YoY % Chg Forecast by Commodity Group



Source: Company data. Morgan Stanley Research, AAR, Merchandise is carloads excluding coal, agricultural products and intermodal.

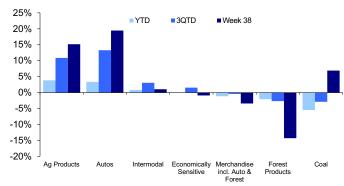
Exhibit 78: Total Traffic Forecast



UPDATE

CSX Volume Trends

Exhibit 79: YoY % Traffic Growth



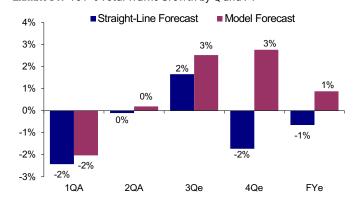
Source: Company data, Morgan Stanley Research, AAR. Merchandise is carloads excluding coal, agricultural products and intermodal.

Exhibit 80: MSe Quarterly YoY % Traffic Growth by Type



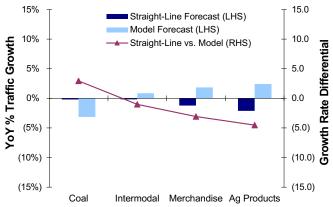
Source: Company data, Morgan Stanley Research estimates

Exhibit 81: YoY % Total Traffic Growth by Q and FY



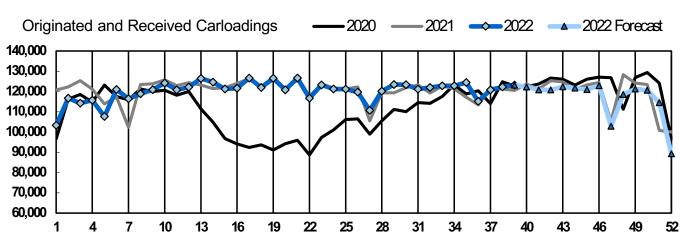
Source: Company data, Morgan Stanley Research estimates, AAR

Exhibit 82: 2022 YoY % Chg Forecast by Commodity Group



Source: Company data. Morgan Stanley Research, AAR, Merchandise is carloads excluding coal, agricultural

Exhibit 83: Total Traffic Forecast



UPDATE

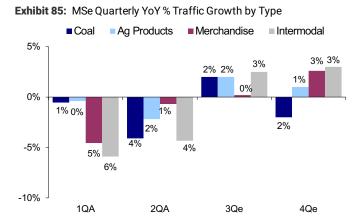
NSC Volume Trends

Exhibit 84: YoY % Traffic Growth

20%
15%
10%
-5%
-10%
-15%

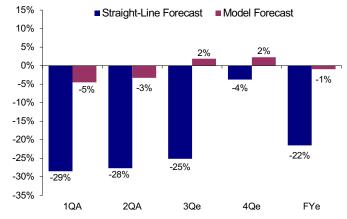
Coal Ag Products Autos Merchandise Economically Forest incl. Auto & Sensitive Products

Source: Company data, Morgan Stanley Research, AAR. Merchandise is carloads excluding coal, agricultural products and intermodal.



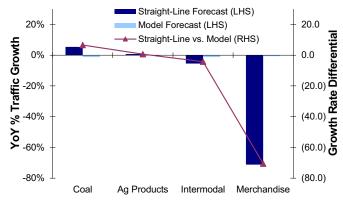
Source: Company data, Morgan Stanley Research estimates

Exhibit 86: YoY % Total Traffic Growth by Q and FY



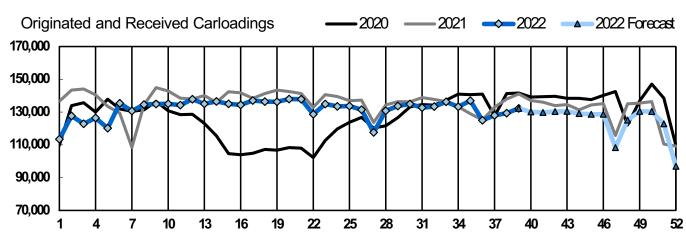
Source: Company data, Morgan Stanley Research estimates, AAR

Exhibit 87: 2022 YoY % Chg Forecast by Commodity Group



Source: Company data, Morgan Stanley Research, AAR. Merchandise is carloads excluding coal, agricultural products and intermodal

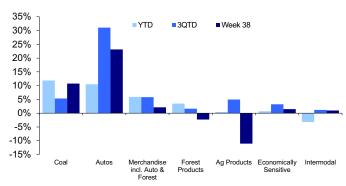
Exhibit 88: Total Traffic Forecast





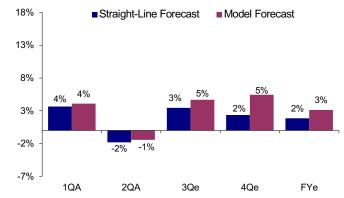
UNP Volume Trends

Exhibit 89: YoY % Traffic Growth



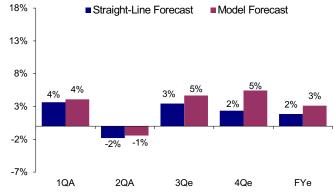
Source: Company data, Morgan Stanley Research, AAR. Merchandise is carloads excluding coal, agricultural

Exhibit 90: MSe Quarterly YoY % Traffic Growth by Type



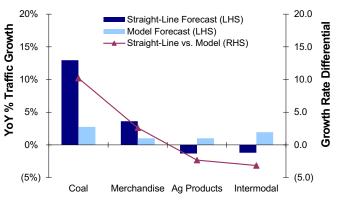
Source: Company data, Morgan Stanley Research estimates

Exhibit 91: YoY % Total Traffic Growth by Q and FY



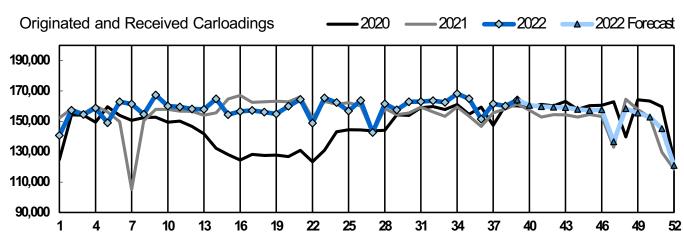
Source: Company data, Morgan Stanley Research estimates, AAR

Exhibit 92: 2022 YoY % Chg Forecast by Commodity Group



Source: Company data, Morgan Stanley Research, AAR. Merchandise is carloads excluding coal, agricultural products and intermedal

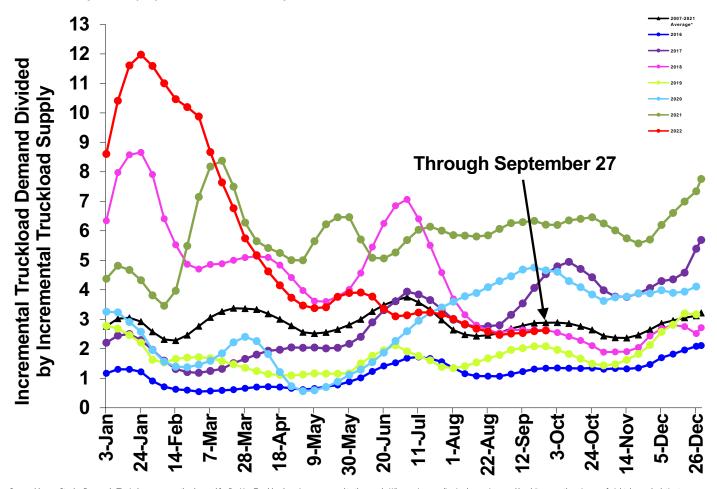
Exhibit 93: Total Traffic Forecast





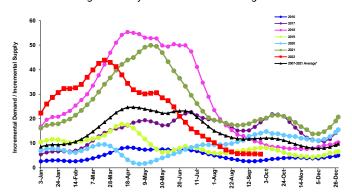
MS Dry Van, Flatbed & Reefer Truckload Freight Index Trends

Exhibit 94: Morgan Stanley Dry Van ONLY Truckload Freight Index



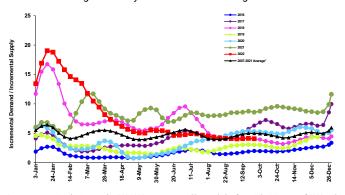
Source: Morgan Stanley Research. The index measures the demand for Dry-Van Truckload services compared to the supply. When a given reading is above prior years' level, it means there is more freight demand relative to available capacity. When a given reading is below prior years' level, it means there is less freight demand relative to capacity. *2007-2021 average trend line excludes financial crisis years of 2008 and 2009.

Exhibit 95: Morgan Stanley Flatbed Truckload Freight Index



Source: Morgan Stanley Research; *2007-2021 average trend line excludes financial crisis years of 2008 and

Exhibit 96: Morgan Stanley Reefer Truckload Freight Index

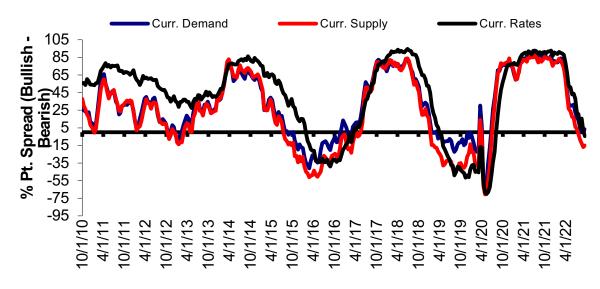


Source: Morgan Stanley Research; *2007-2021 average trend line excludes financial crisis years of 2008 and



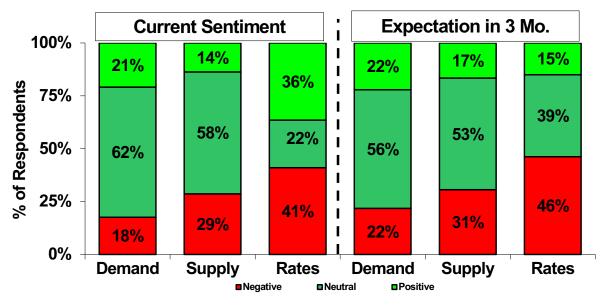
Morgan Stanley Truckload Sentiment Survey Trends

Exhibit 97: Morgan Stanley Truckload Sentiment Survey



Note: Response % Pt. Spread (Bullish - Bearish) for current TL Demand, Supply and Rates defined as: Current Demand – the % of respondents describing current demand as "strong" less the % of respondents describing current demand as "weak"; Current Supply – the % of respondents describing current supply as "tight" less the % of respondents describing current supply as "abundant"; Current Rates – the % of respondents saying current TL rates are "Higher" vs. a year ago less the % of respondents saying current TL rates are "Lower" vs. a year ago. Source: Morgan Stanley Research

Exhibit 98: Latest Truckload Sentiment Survey Results



Note: "Negative", "Neutral" and "Positive" responses or TL Demand, Supply and Rate trends correspond with: the % of respondents describing current and 3 Mo. forward Demand as "Weak", "Neutral" and "Strong"; the % of respondents describing current and 3 Mo. forward supply as "Abundant", "Neutral" and "Tight"; and the % respondents describing current and 3 Mo. forward rates as "Lower", "Unchanged" and "Higher" vs. a year ago, respectively. Source: Morgan Stanley Research



Truckload Sentiment Survey Methodology

Representative commentary provided by respondents between 9/14/2022 and 9/20/2022

Exhibit 99: MS Truckload Sentiment Survey (TLSS) Respondent Commentary

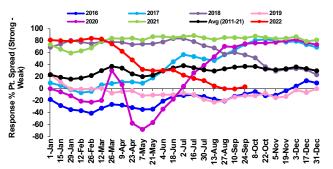
CARRIERS	SHIPPERS	BROKERS / OTHER			
Capacity is still extremely tight with drivers demographic and parts supply chain issues	The potential rail strike will have a major impact on capacity as intermodal shippers will shift to over-the-road truckload	Pending rail strike will disrupt trucking capacity an drive rates up if not resolved quickly			
Refrigerated capacity is still tight	It is difficult to balance spot vs contract pricing. But as the difference between the 2 became greater, I would assume there will be more of a shift to spot or contract pricing will need to come down.	Impending Rail strike is having a short term effect on capacity and demand. Duration of that event may change the dynamics over a longer period of time.			
Feedback relative to demand being strong and capacity being tight is relative to the current rail labor situation and possible strike. While it may yet be avoided, there has been a significant amount of volume shifted from intermodal to truck. Additionally, a number of shippers are advising they may continue this for another week or so even if the strike is averted to help escape as much congestion as possible during a full restart by the rail companies.	I feel like carriers that have rates up for review the remainder of 2022 will ask for increases, but think rates for 2023 will be down 2-4%.	Ask 10 people what the market is going to do and you'll get 12 different answers! 4 decades in the businessI believe it's the most challenging I've witnessed trying to "crystal ball" the future.			
We are 100% refrigerated trucking company. We had a slight softening in rates June/July and now the demand is going crazy again. Back to turning down 300+ loads a day. Shippers are paying deadhead charges again on the refrigerated movements.	We continue to see significant reductions in rates across all regions, both contract and spot. New contract rates are coming in significantly lower and I do not believe that the current market indicators are accurately reflecting reality.	Still sitting at equilibrium from a RPM standpoint. The potential of a rail strike did lead to a handful of band aid scenarios, most of which had little impact outside of some small regional blips. At this point, we expect rates to remain essentially flat throughout the Holidays and then a further contraction of rates until we get into the summer months next year. Inflation/recession is still a looming headwind that could potentially drive rates down sooner and faster, but that's more of a TBD scenario.			
Seeing flatbed holding steady rates still are strong	Segmented rates	Supply still unstable			
Equipment shortages are keeping capacity tight. We are also having to run equipment longer and downtime is extensive.		As rates fall, brokerages are doing all they can to bring "collaborative pricing" to the table for shippers while picking up small volume crumbs to fill their gaps in revenue.			
Rates continue to normalize, returning to the usual seasonal cycle.		Capacity and pricing are getting back to pre- pandemic levels.			
There is no way to gauge anything in this environment.		Still soft, shippers are getting capacity and lower rates consistently			
Rates seem to be leveling off. Finding and keeping drivers is our biggest challenge right now. We need to increase rates.					
Still pockets of imbalance, but overall plenty of capacity and volumes are weaker					

 $Source: Morgan\ Stanley\ Research; Note:\ Green = Optimistic,\ Orange = Neutral,\ Red = Bearish$



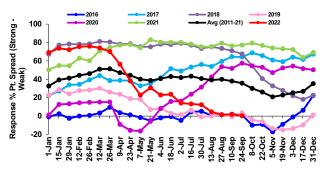
Morgan Stanley Truckload Sentiment Survey Trends

Exhibit 100: What is your appraisal of current TL Demand?



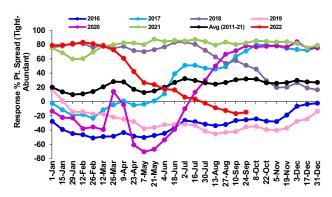
Note: Response % Pt. Spread defined as the % of respondents describing current demand as "strong" less the % of respondents describing current demand as "weak" Source: Morgan Stanley Research

Exhibit 101: What is your expectation for TL demand in 3 Mo.?



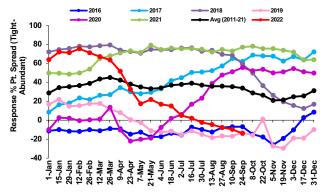
Note: Response % Pt. Spread defined as the % of respondents expecting forward demand to be "strong" less the % of respondents expecting forward demand to be "weak"; Source: Morgan Stanley Research

Exhibit 102: What is your appraisal of current TL Supply?



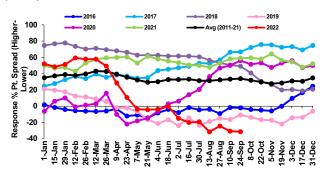
Note: Response % Pt. Spread defined as the % of respondents describing current supply as "tight" less the % of respondents describing current supply as "abundant"; Source: Morgan Stanley Research

Exhibit 103: What is your expectation for TL supply in 3 Mo.?



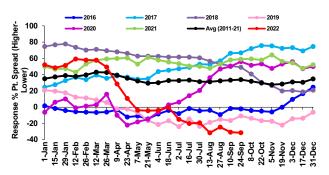
Net Survey Response % Pt. Spread defined as the % of respondents expecting forward supply to be "tight" less the % of respondents expecting forward supply to be "abundant"; Source: Morgan Stanley Research

Exhibit 104: How do your current TL rates compare to your rates 1 year ago?



Note: Response % Pt. Spread defined as the % of respondents saying current TL rates are "Higher" vs. a year ago less the % of respondents saying current TL rates are "Lower" vs. a year ago; Source: Morgan Stanley Research

Exhibit 105: What is your expectation for TL rates 3 months from now?

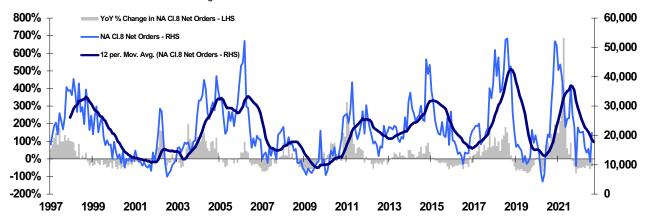


Note: Response % Pt. Spread defined as the % of respondents expecting TL rates to be "Higher" 3 Mo. from now less the % of respondents expecting TL rates to be "Lower" 3 Mo. from now; Source: Morgan Stanley Research



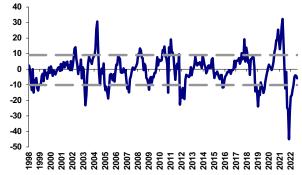
ACT N.A. Class 8 Truck Net Orders, Builds & Retail Sales Trends

Exhibit 106: NA Total Cl.8 Net Orders Long-Term Trends



Source: ACT; Morgan Stanley Research

Exhibit 107: Acceleration in LTM NA Total Cl.8 Net Orders



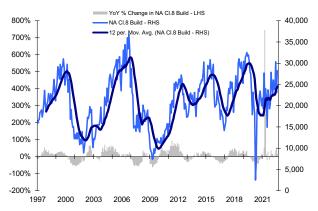
Source: ACT, Morgan Stanley Research

Exhibit 108: Prelim. Cl.8 Net Orders vs. 12M Mov. Avg.



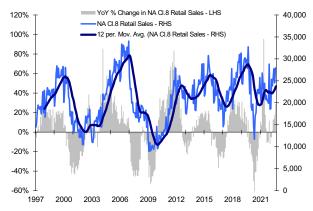
Source: ACT, Morgan Stanley Research

Exhibit 109: NA Total Cl.8 Builds Long-Term Trends



Source: ACT, Morgan Stanley Research

Exhibit 110: NA Total Cl.8 Retail Sales Long-Term Trends

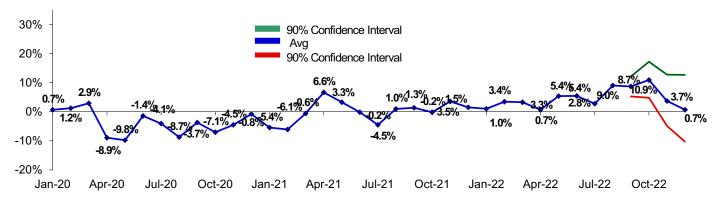


Source: ACT, Morgan Stanley Research



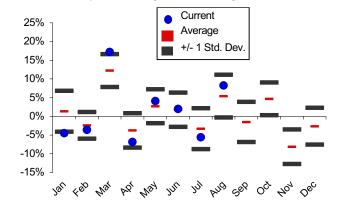
ATA Not-Seasonally Adjusted (NSA) Truck Tonnage Index Trends

Exhibit 111: Straight-Line Forecast for Monthly YoY % Change in ATA NSA Truck Tonnage Index



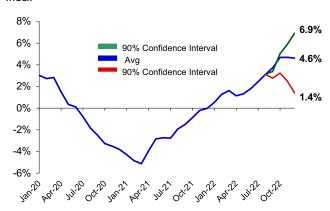
Source: ATA Truck Tonnage, Morgan Stanley Research

Exhibit 112: Sequential Change in NSA Tonnage Index



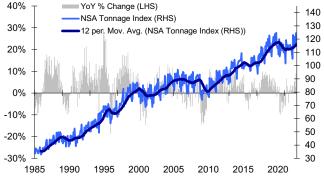
Source: ATA, Morgan Stanley Research; Based on data from 1985 onwards

Exhibit 113: Straight-Line Forecast for LTM ATA NSA Truck Tonnage Index



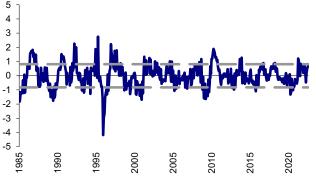
Source: ATA, Morgan Stanley Research

Exhibit 114: NSA Tonnage Index Long-Term Trends



Source: ATA, Morgan Stanley Research

Exhibit 115: Accel. in 12-Month Moving Avg NSA Tonnage Index

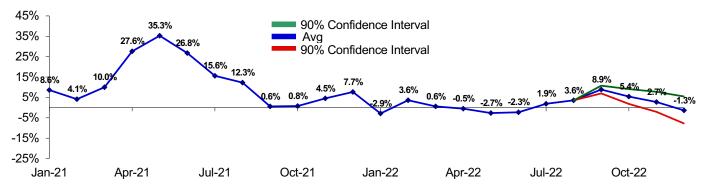


Source: ATA, Morgan Stanley Research; +1/-1 Standard Deviation lines based on data from 1985 onwards



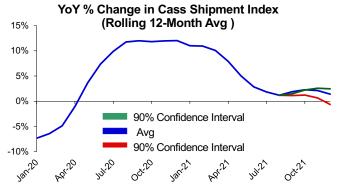
Cass Shipment Index Trends & Straight-Line Forecast

Exhibit 116: Straight-Line Forecast for Monthly YoY % Change in Cass Shipment Index



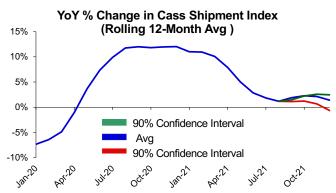
Source: Cass Freight Index, Morgan Stanley Research

Exhibit 117: Sequential Change in Cass Shipment Index



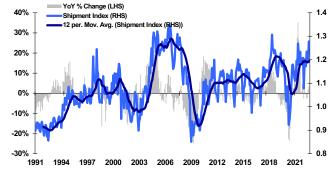
Source: Cass Freight Index, Morgan Stanley Research

Exhibit 118: Straight-Line Forecast for LTM Cass Shipment Index



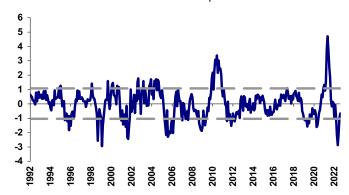
Source: Cass Freight Index, Morgan Stanley Research

Exhibit 119: Cass Shipment Index Long-Term Trends



Source: Cass Freight Index, Morgan Stanley Research

Exhibit 120: Acceleration in LTM Cass Shipment Index

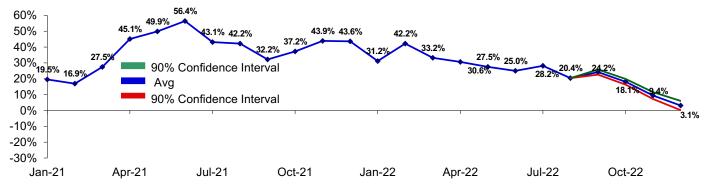


Source: Cass Freight Index, Morgan Stanley Research



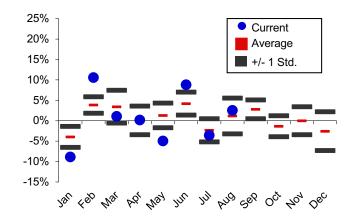
Cass Expenditure Index Trends & Straight-Line Forecast

Exhibit 121: Straight-Line Forecast for Monthly YoY % Change in Cass Expenditure Index



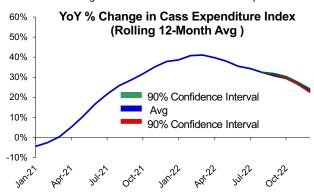
Source: Cass Freight Index, Morgan Stanley Research

Exhibit 122: Sequential Change in Cass Expenditure Index



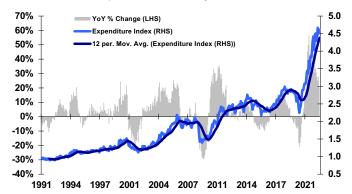
Source: Cass Freight Index, Morgan Stanley Research

Exhibit 123: Straight-Line Forecast for LTM Cass Expenditure Index



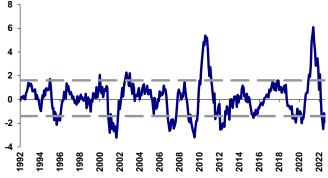
Source: Cass Freight Index, Morgan Stanley Research

Exhibit 124: Cass Expenditure Index Long-Term Trends



Source: Company data, Morgan Stanley Research

Exhibit 125: Acceleration in LTM Cass Expenditure Index

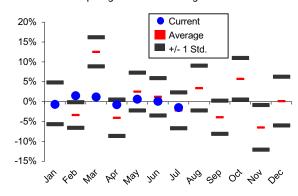


Source: Cass Freight Index, Morgan Stanley Research



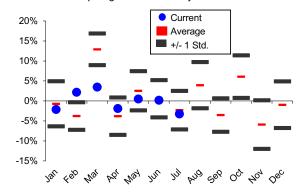
ATA TRAC Volume Index Seq. Change Analysis by Carrier Type

Exhibit 126: Seq. Chg. In ATA NSA Large TL Loads Index



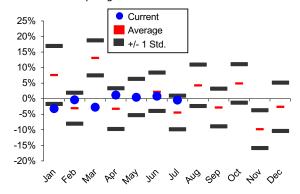
Source: ATA TRAC, Morgan Stanley Research

Exhibit 128: Seq. Chg. In ATA NSA Dry Van Loads Index



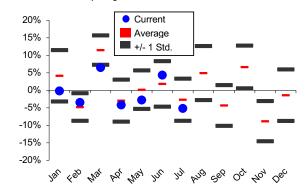
Source: ATA TRAC, Morgan Stanley Research

Exhibit 130: Seq. Chg. In ATA NSA Flatbed Loads Index



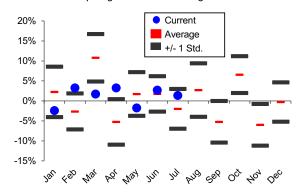
Source: ATA TRAC, Morgan Stanley Research

Exhibit 127: Seq. Chg. In ATA NSA Small TL Loads Index



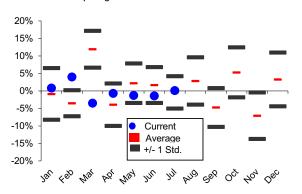
Source: ATA TRAC, Morgan Stanley Research

Exhibit 129: Seq. Chg. In ATA NSA Refrigerated Loads Index



Source: ATA TRAC, Morgan Stanley Research

Exhibit 131: Seq. Chg. In ATA NSA Bulk / Tank Loads Index

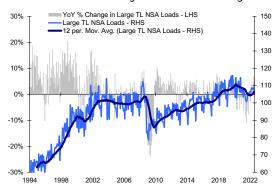


Source: ATA TRAC, Morgan Stanley Research



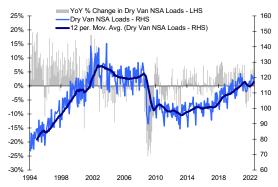
ATA TRAC Long-Term Volume Index Trends by Carrier Type

Exhibit 132: ATA NSA Large TL Loads Index Long-Term Trends



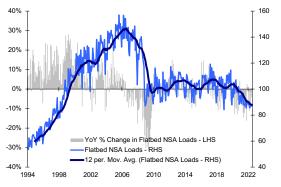
Source: ATA TRAC, Morgan Stanley Research

Exhibit 134: ATA NSA Dry Van Loads Index Long-Term Trends



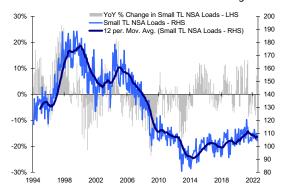
Source: ATA TRAC, Morgan Stanley Research

Exhibit 136: ATA NSA Flatbed Loads Index Long-Term Trends



Source: ATA TRAC, Morgan Stanley Research

Exhibit 133: ATA NSA Small TL Loads Index Long-Term Trends



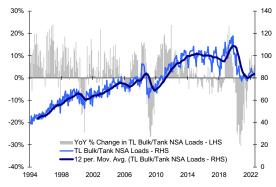
Source: ATA TRAC, Morgan Stanley Research

Exhibit 135: ATA NSA Refrigerated Loads Index LT Trends



Source: ATA TRAC, Morgan Stanley Research

Exhibit 137: ATA NSA Bulk/Tank Loads Index LT Trends



Source: ATA TRAC, Morgan Stanley Research



TL Carrier Operating Metrics

Exhibit 138: Total Revenues (Ex. FS)



Source: Company data, Morgan Stanley Research

Exhibit 140: Operating Ratio % (Ex. FS & Gains)



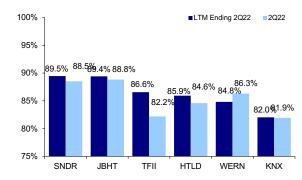
Source: Company data, Morgan Stanley Research

Exhibit 142: Avg. Rev/Tractor: YoY % Change



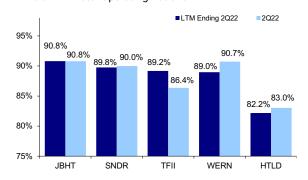
Source: Company Data, Morgan Stanley Research

Exhibit 139: Net Debt as a % of LTM Total Revs. Ex. FS



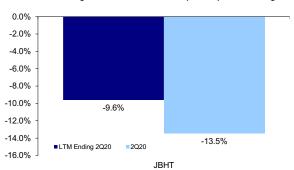
Source: Company data, Morgan Stanley Research

Exhibit 141: Total Operating Ratio %



Source: Company data, Morgan Stanley Research

Exhibit 143: Avg. Revenue/Total Mile (Ex. FS): YoY % Chg



Source: Company data, Morgan Stanley Research, Note: JBHT includes FS



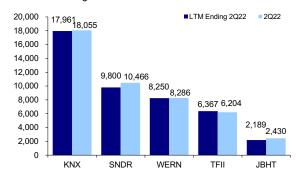
TL Carrier Operating Metrics (Cont'd)

Exhibit 144: Avg. Revenue per Tractor



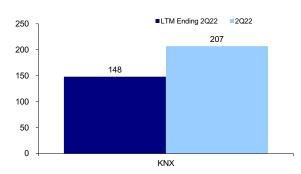
Source: Company data, Morgan Stanley Research

Exhibit 146: Avg. Tractor Fleet Size



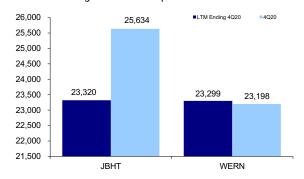
Source: Company data, Morgan Stanley Research; JBHT data for JBT Segment Only

Exhibit 148: Avg. Length of Haul (Miles)



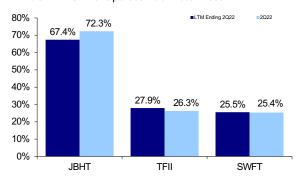
Source: Company data, Morgan Stanley Research; JBHT data for JBT Segment Only

Exhibit 145: Avg. Loaded Miles per Tractor



Source: Company data, Morgan Stanley Research; JBHT data for JBT Segment Only

Exhibit 147: Owner Operator % of Total Fleet



Source: Company data, Morgan Stanley Research; JBHT data for JBT Segment Only

Exhibit 149: Avg. Empty Mile %

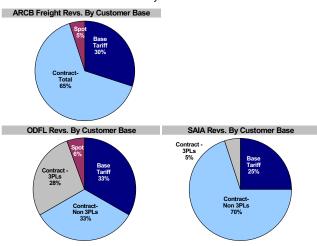


Source: Company data, Morgan Stanley Research; JBHT data for JBT Segment Only



LTL Industry Trends

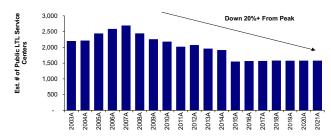
Exhibit 150: LTL Revenue Mix by Rate Paid



Note: ARCB 3PL exposure minimal; ODFL pie chart does not reflect revenues from Value-Added Logistics services (\sim 8% of total revs).

Source: Company Management, Company Data, Morgan Stanley Research Estimates

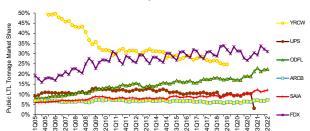
Exhibit 152: Public LTL Service Capacity Reduction Since Peak



Note: Includes ABFS, ODFL, FDX Freight, UPS Freight (Overnite data used for Pre-2004 periods), YRCW (Regional + National), SAIA and VTNC

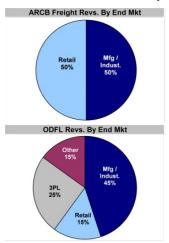
(Regional + National), SAIA and VTNC Source: Company data, Morgan Stanley Research Estimates

Exhibit 154: Public LTL Tonnage Market Share Trends



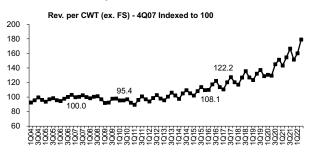
Note: Percentages reflect % of total tonnage of public LTLs only; Source: Company Data, Morgan Stanley Research Estimates. On 12/30/2013, VTNC entered into a definitive agreement to be acquired by Transforce

Exhibit 151: LTL Revenue Mix by End Market



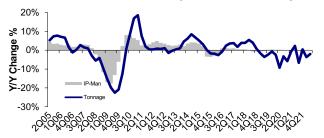
Note: ODFL pie chart does not reflect revenues from Value-Added Logistics services (~8% of total revs). Source: Company Management, Company Data, Morgan Stanley Research Estimates

Exhibit 153: LTL Pricing Inline with Prior Peak Levels



Note: Index includes ABFS, YRCW, SAIA, ODFL, FDX Freight and UPS Freight. Source: Company data, Morgan Stanley Research Estimates

Exhibit 155: Public LTL Truck Tonnage vs. IP: Manufacturing

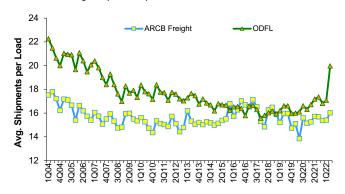


Note: Includes ABFS, ODFL, FDX Freight, UPS Freight, YRCW, SAIA, VTNC. Source: Company Data, Morgan Stanley Research Estimates



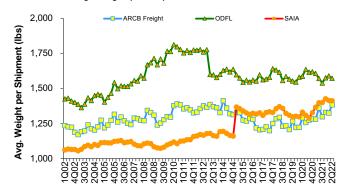
LTL Carrier Operating Metrics

Exhibit 156: Avg. Shipments per Load



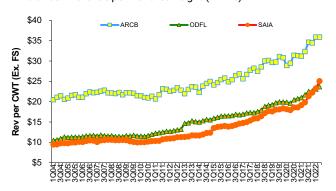
Source: Company data, Morgan Stanley Research Estimates

Exhibit 157: Avg. Weight per Shipment



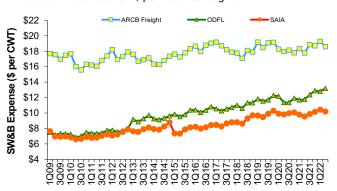
Source: Company data, Morgan Stanley Research Estimates

Exhibit 158: Revenue per Hundredweight (Ex. FS)



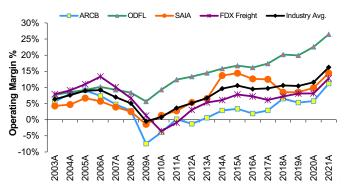
Source: Company data, Morgan Stanley Research Estimates

Exhibit 159: Relative SW&B \$ per Hundredweight



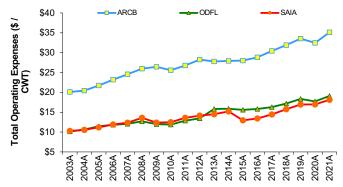
Source: Company data, Morgan Stanley Research Estimates

Exhibit 160: LTL Operating Margin Trends



Source: Company data, Morgan Stanley Research Estimates

Exhibit 161: Total Opex \$ per Hundredweight

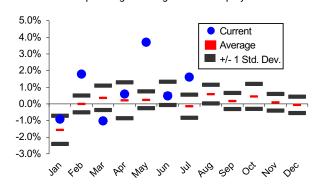


Source: Company data, Morgan Stanley Research Estimates



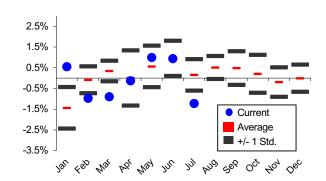
TL, LTL & Parcel Employment Trends

Exhibit 162: Seq. Change in Long-Haul TL Employment



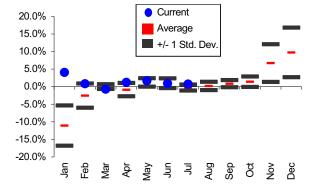
Source: BLS, Morgan Stanley Research

Exhibit 164: Seq. Change in Long-Haul LTL Employment



Source: BLS, Morgan Stanley Research

Exhibit 166: Seq. Change in Parcel Employment



Source: BLS, Morgan Stanley Research; Note: Data for couriers and messengers

Exhibit 163: Long-Haul TL Employment Long-Term Trends



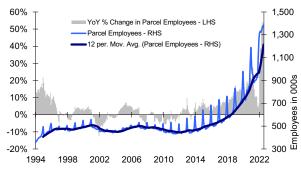
Source: BLS, Morgan Stanley Research

Exhibit 165: Long-Haul LTL Employment Long-Term Trends



Source: BLS, Morgan Stanley Research

Exhibit 167: Parcel Employment Long-Term Trends

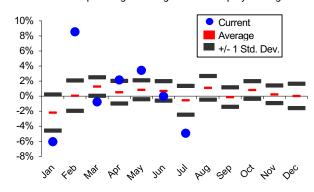


Source: BLS, Morgan Stanley Research; Note: Data for couriers and messengers



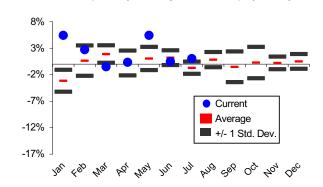
TL, LTL & Parcel Employee Wage Trends

Exhibit 168: Seq. Change in Long-Haul TL Employee Wages



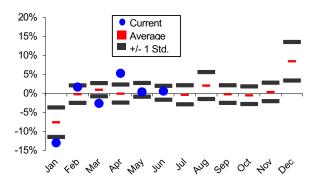
Source: BLS, Morgan Stanley Research

Exhibit 170: Seq. Change in Long-Haul LTL Employee Wages



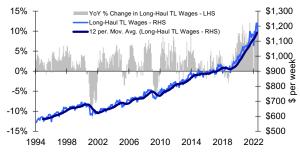
Source: BLS, Morgan Stanley Research

Exhibit 172: Seq. Change in Parcel Employee Wages



Source: BLS, Morgan Stanley Research; Note: Data for couriers and messengers

Exhibit 169: Long-Haul TL Employee Long-Term Wage Trends



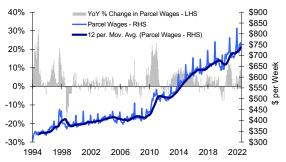
Source: BLS, Morgan Stanley Research

Exhibit 171: Long-Haul LTL Employee Long-Term Wage Trends



Source: BLS, Morgan Stanley Research

Exhibit 173: Parcel Employee Long-Term Wage Trends

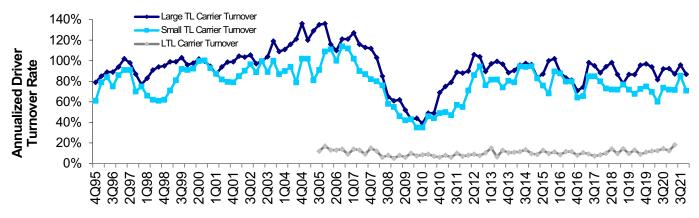


Source: BLS, Morgan Stanley Research; Note: Data for couriers and messengers



TL & LTL Turnover, Wage and Employment Trends

Exhibit 174: TL & LTL Carrier Driver Turnover Trends



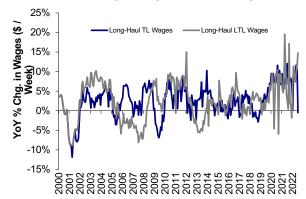
Source: ATA, Morgan Stanley Research; Large TL Carriers >\$30M annual revs, Small TL Carriers <\$30M annual revs

Exhibit 175: YoY % Chg. in Long-Haul TL & LTL Employees



Source: BLS, Morgan Stanley Research; Note: Includes all non-mgmt employees

Exhibit 176: YoY % Chg. in Long-Haul TL & LTL Wages

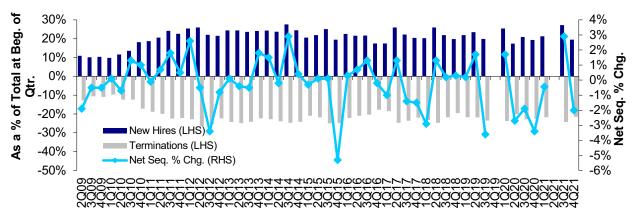


Source: BLS, Morgan Stanley Research; Note: Wages for all non-mgmt employees



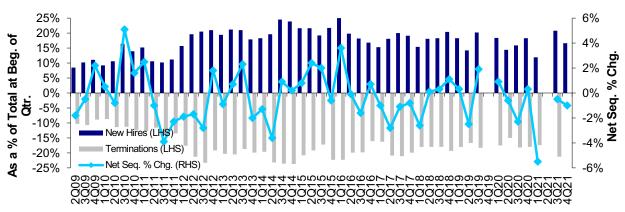
TL & LTL Driver New Hire & Termination Trends

Exhibit 177: Large TL Carrier Driver New Hire & Termination Trends



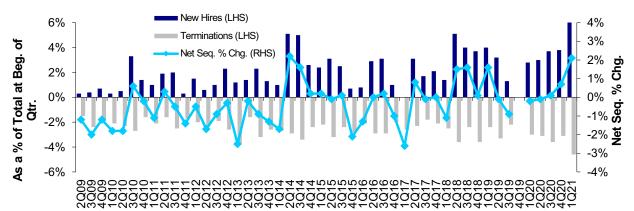
Source: ATA, Morgan Stanley Research; Note: Includes Line-Haul drivers only

Exhibit 178: Small TL Carrier Driver New Hire & Termination Trends



Source: ATA, Morgan Stanley Research; Note: Includes Line-Haul drivers only

Exhibit 179: LTL Carrier Driver New Hire & Termination Trends



Source: ATA, Morgan Stanley Research; Note: Includes Line-Haul drivers only



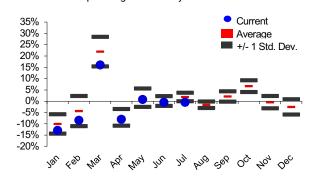
IATA Global Straight-Line Forecasts & Long-Term Trends

Exhibit 180: Straight-Line Forecast for Monthly YoY % Change in Global FTK



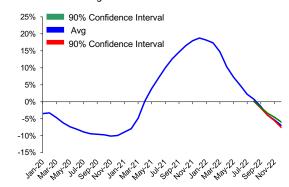
Source: IATA, Morgan Stanley Research, Adjusted for Leap Year and Chinese New Year

Exhibit 181: Seq. Change in Monthly Global FTK



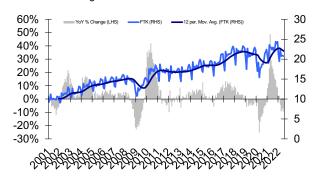
Source: IATA, Morgan Stanley Research, Based on data starting in 2000, Adjusted for Leap Year and Chinese New Year

Exhibit 182: Straight-Line Forecast for LTM Global FTK



Source: IATA, Morgan Stanley Research, Adjusted for Leap Year and Chinese New Year

Exhibit 183: Long-Term Global FTK Trends



Source: IATA, Morgan Stanley Research, Adjusted for Leap Year

Exhibit 184: Acceleration in LTM Global FTK

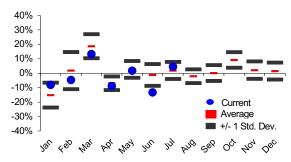


Source: IATA, Morgan Stanley Research, Adjusted for Leap Year



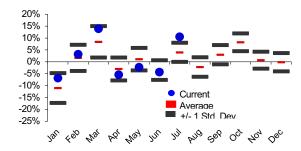
IATA Sequential Change Analysis by Region

Exhibit 185: Seq. Change in Monthly Africa FTK



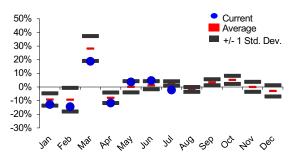
Source: IATA, Morgan Stanley Research, Based on data starting in 2000, Adjusted for Leap Year and Chinese New Year

Exhibit 186: Seq. Change in Monthly Latin America FTK



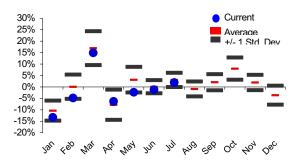
Source: IATA, Morgan Stanley Research, Based on data starting in 2000, Adjusted for Leap Year and Chinese New Year

Exhibit 187: Seq. Change in Monthly Asia FTK



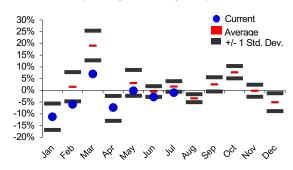
Source: IATA, Morgan Stanley Research, Based on data starting in 2000, Adjusted for Leap Year and Chinese

Exhibit 188: Seq. Change in Monthly Middle East FTK



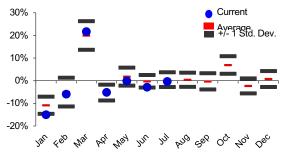
Source: IATA, Morgan Stanley Research, Based on data starting in 2000, Adjusted for Leap Year and Chinese New Year

Exhibit 189: Seq. Change in Monthly Europe FTK



Source: IATA, Morgan Stanley Research, Based on data starting in 2000, Adjusted for Leap Year and Chinese New Year

Exhibit 190: Seq. Change in Monthly N. Ame. FTK

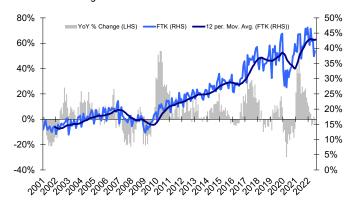


Source: IATA, Morgan Stanley Research, Based on data starting in 2000, Adjusted for Leap Year and Chinese



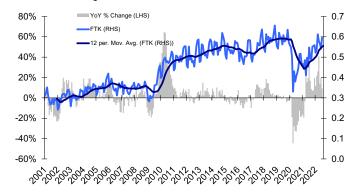
IATA FTK Long-Term Trends by Region

Exhibit 191: Long-Term Africa FTK Trends



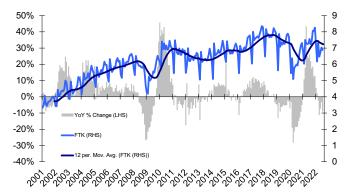
Source: IATA, Morgan Stanley Research, Adjusted for Leap Year

Exhibit 192: Long-Term Latin America FTK Trends



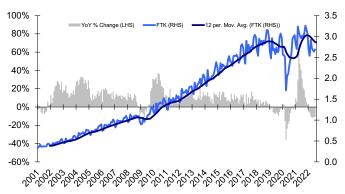
Source: IATA, Morgan Stanley Research, Adjusted for Leap Year

Exhibit 193: Long-Term Asia FTK Trends



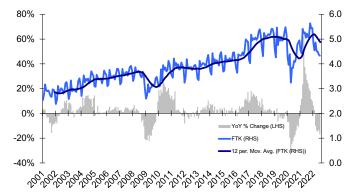
Source: IATA, Morgan Stanley Research, Adjusted for Leap Year

Exhibit 194: Long-Term Middle East FTK Trends



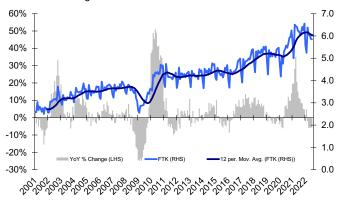
Source: IATA, Morgan Stanley Research, Adjusted for Leap Year

Exhibit 195: Long-Term Europe FTK Trends



Source: IATA, Morgan Stanley Research, Adjusted for Leap Year

Exhibit 196: Long-Term North America FTK Trends

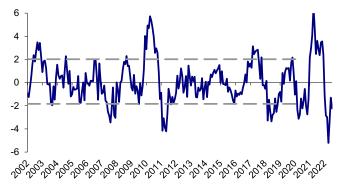


Source: IATA, Morgan Stanley Research Adjusted for Leap Year



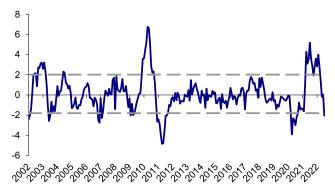
IATA FTK Momentum Indicators by Region

Exhibit 197: Acceleration in LTM Africa FTK



Source: IATA, Morgan Stanley Research; +1/-1 St. Dev. lines based on 2002 onwards, Adjusted for Leap Year

Exhibit 198: Acceleration in LTM Latin America FTK



Source: IATA, Morgan Stanley Research; +1/-1 St. Dev. lines based on 2002 onwards, Adjusted for Leap Year

Exhibit 199: Acceleration in LTM Asia FTK



Exhibit 200: Acceleration in LTM Middle East FTK

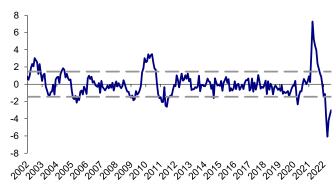
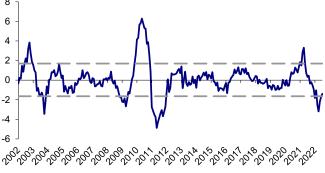


Exhibit 201: Acceleration in LTM Europe FTK



Exhibit 202: Acceleration in LTM North America FTK

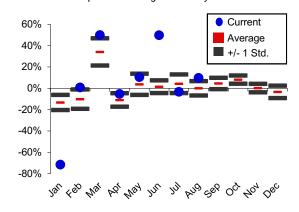


Source: IATA, Morgan Stanley Research; +1/-1 St. Dev. lines based on 2002 onwards, Adjusted for Leap Year



Cathay Pacific and Singapore Airlines Cargo Trends

Exhibit 203: Sequential Change in Cathay Pacific FTK



Source: Cathay Pacific, Morgan Stanley Research, Note: Adjusted for CNY and Leap year

Exhibit 205: Cathay Pacific FTK Long-Term Trends

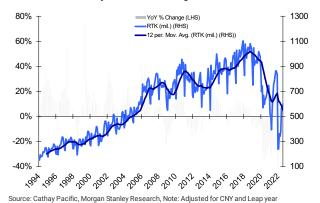
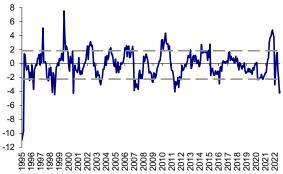
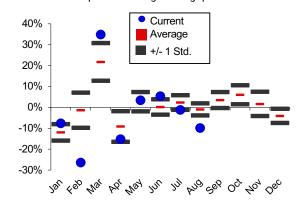


Exhibit 207: Acceleration in LTM Cathay Pacific FTK



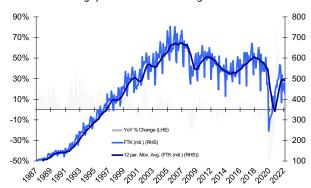
Source: Cathay Pacific, Morgan Stanley Research, Note: Adjusted for CNY and Leap year

Exhibit 204: Sequential Change in Singapore Airlines FTK



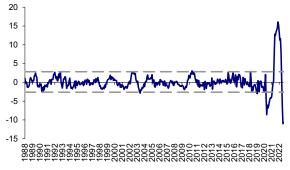
 $Source: Singapore\ Airlines,\ Morgan\ Stanley\ Research.\ Note:\ Adjusted\ for\ CNY\ and\ Leap\ year$

Exhibit 206: Singapore Airlines FTK Long-Term Trends



Source: Singapore Airlines, Morgan Stanley Research. Note: Adjusted for CNY and Leap year

Exhibit 208: Acceleration in LTM Singapore Airlines FTK

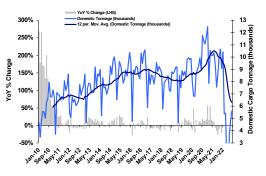


 $Source: Singapore\ Airlines,\ Morgan\ Stanley\ Research.\ Note:\ Adjusted\ for\ CNY\ and\ Leap\ year$



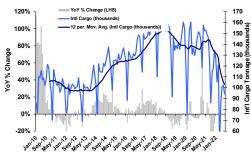
Shanghai Pudong International Airport Cargo and Drewry Freight Index Trends

Exhibit 209: PACTL Domestic Cargo Tonnage Long-Term Trends



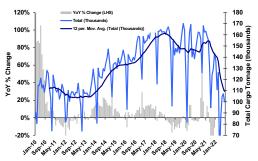
Source: PACTL, Morgan Stanley Research

Exhibit 210: PACTL Int'l Cargo Tonnage Long-Term Trends



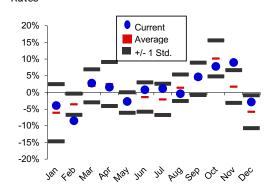
Source: PACTL, Morgan Stanley Research

Exhibit 211: PACTL Total Cargo Tonnage Long-Term Trends



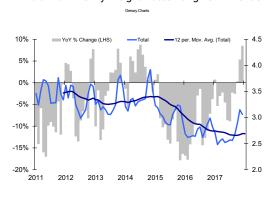
Source: PACTL, Morgan Stanley Research

Exhibit 212: Sequential Change in Monthly Drewry Freight Rates



Source: Drewry, Bloomberg, Company data, Morgan Stanley Research

Exhibit 213: Drewry Freight Rates Long Term Trends



Source: Drewry, Bloomberg, Company data, Morgan Stanley Research



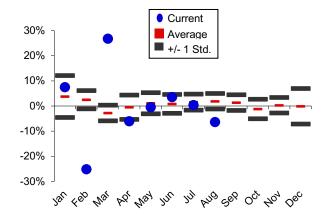
China Containerized Freight Index Trends & Straight-Line Forecast

Exhibit 214: Straight-Line Forecast for Monthly YoY % Change in CCFI Index



Source: Shanghai Shipping Exchange, Morgan Stanley Research

Exhibit 215: Sequential Change in CCFI



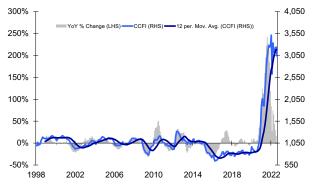
Source: Shanghai Shipping Exchange, Morgan Stanley Research

Exhibit 216: Straight-Line Forecast for LTM CCFI



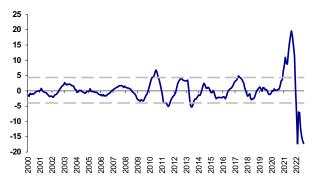
Source: Shanghai Shipping Exchange, Morgan Stanley Research

Exhibit 217: CCFI Long-Term Trends



Source: Shanghai Shipping Exchange, Morgan Stanley Research

Exhibit 218: Acceleration in LTM CCFI

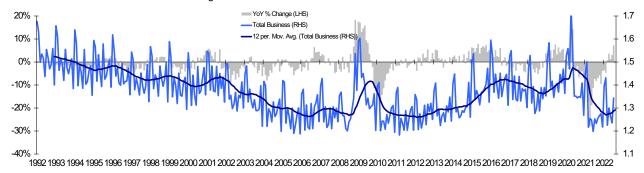


Source: Shanghai Shipping Exchange, Morgan Stanley Research



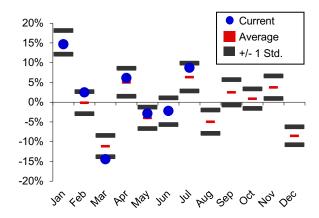
Total Business Inventory/Sales Ratio Trends

Exhibit 219: Business Inv/Sales Ratio Long-Term Trends



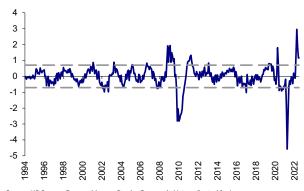
Source: US Census Bureau, Morgan Stanley Research. Note: adjusted for Leap year

Exhibit 220: Sequential Change in Business Inv/Sales Ratio



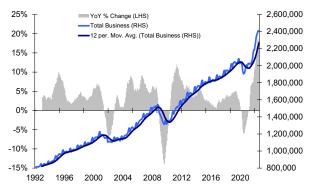
Source: US Census Bureau, Morgan Stanley Research. Note: adjusted for Leap year

Exhibit 221: Acceleration in LTM Business Inv/Sales Ratio



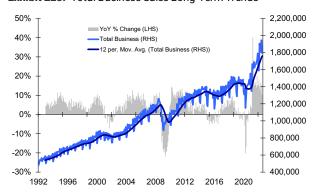
 $Source: US\ Census\ Bureau,\ Morgan\ Stanley\ Research.\ Note:\ adjusted\ for\ Leap\ year$

Exhibit 222: Total Business Inventories Long-Term Trends



Source: US Census Bureau, Morgan Stanley Research. Note: adjusted for Leap year

Exhibit 223: Total Business Sales Long-Term Trends

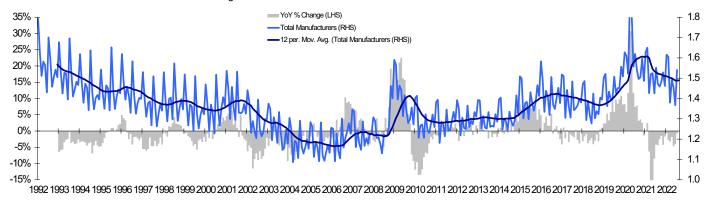


Source: US Census Bureau, Morgan Stanley Research. Note: adjusted for Leap year



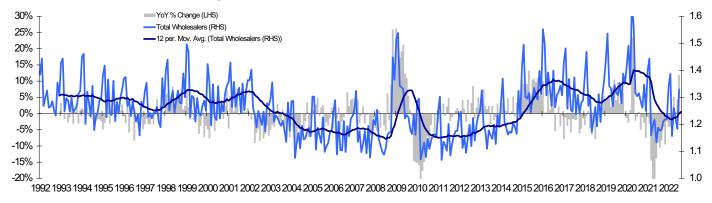
Inventory/Sales Ratio Trends

Exhibit 224: Manufacturer Inv/Sales Ratio Long-Term Trends



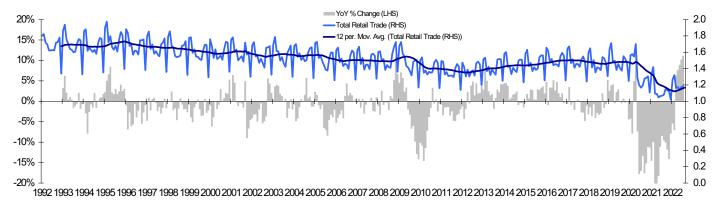
Source: US Census Bureau, Morgan Stanley Research. Note: adjusted for Leap year

Exhibit 225: Wholesaler Inv/Sales Ratio Long-Term Trends



 $Source: US\ Census\ Bureau,\ Morgan\ Stanley\ Research.\ Note:\ adjusted\ for\ Leap\ year and\ Stanley\ Research.$

Exhibit 226: Retailer Inv/Sales Ratio Long-Term Trends

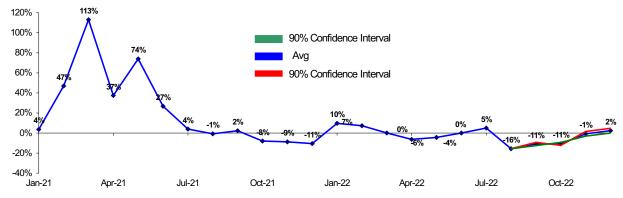


Source: US Census Bureau, Morgan Stanley Research. Note: adjusted for Leap year



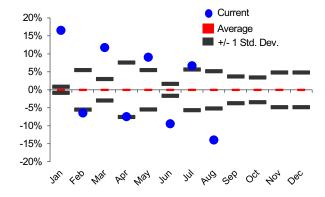
Los Angeles Port Trends & Straight-Line Forecast

Exhibit 227: Straight-Line Forecast for Monthly YoY % Change in Total (TEUs)



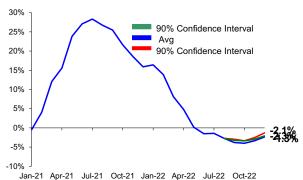
Source: Port of Los Angeles, Morgan Stanley Research

Exhibit 228: Sequential Change in Total (TEUs)



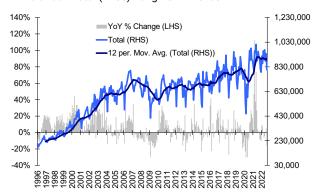
Source: Port of Los Angeles, Morgan Stanley Research

Exhibit 229: Straight-Line Forecast for LTM Total (TEUs)



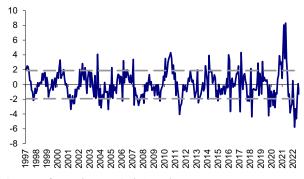
Source: Port of Los Angeles, Morgan Stanley Research

Exhibit 230: Total (TEUs) Long-Term Trends



Source: Port of Los Angeles, Morgan Stanley Research

Exhibit 231: Acceleration in LTM Total (TEUs)

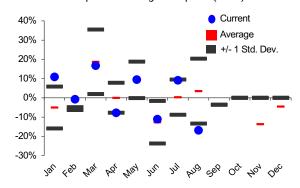


Source: Port of Los Angeles, Morgan Stanley Research



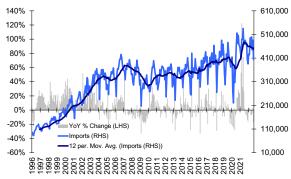
Los Angeles Port Import & Export Trends

Exhibit 232: Sequential Change in Imports (TEUs)



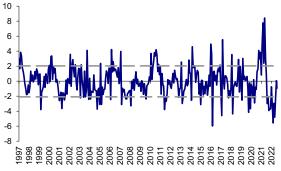
 $Source: Port of Los \ Angeles, \ Morgan \ Stanley \ Research. \ Note: adjusted for \ Leap \ year \ and \ CNY$

Exhibit 234: Imports (TEUs) Long-Term Trends



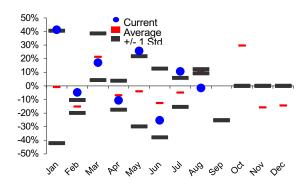
Source: Port of Los Angeles, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 236: Acceleration in LTM Imports (TEUs)



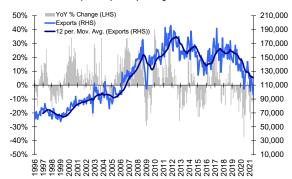
Source: Port of Los Angeles, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 233: Sequential Change in Exports (TEUs)



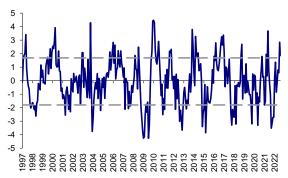
Source: Port of Los Angeles, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 235: Exports (TEUs) Long-Term Trends



Source: Port of Los Angeles, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 237: Acceleration in LTM Exports (TEUs)

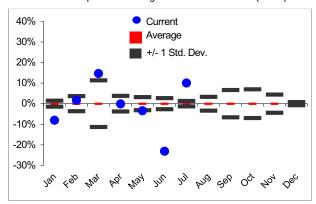


Source: Port of Los Angeles, Morgan Stanley Research. Note: adjusted for Leap year and CNY



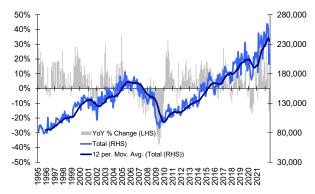
Charleston & Long Beach Port Trends

Exhibit 238: Sequential Change in Charleston Total (TEUs)



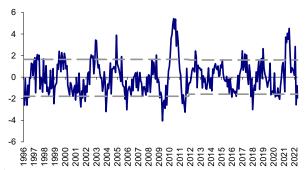
Source: Port of Charleston Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 240: Charleston Total (TEUs) Long-Term Trends



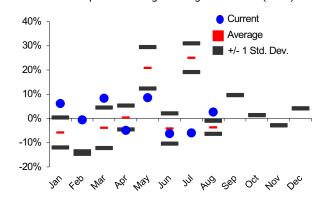
Source: Port of Charleston, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 242: Acceleration in LTM Charleston Total (TEUs)



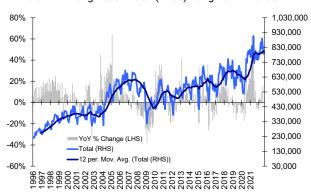
Source: Port of Charleston, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 239: Sequential Change in Long Beach Total (TEUs)



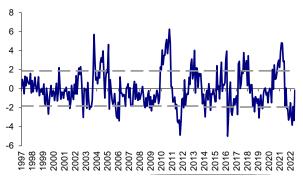
Source: Port of Long Beach, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 241: Long Beach Total (TEUs) Long-Term Trends



 $Source: Port \ of \ Long \ Beach, \ Morgan \ Stanley \ Research. \ Note: \ adjusted \ for \ Leap \ year \ and \ CNY$

Exhibit 243: Acceleration in LTM Long Beach Total (TEUs)

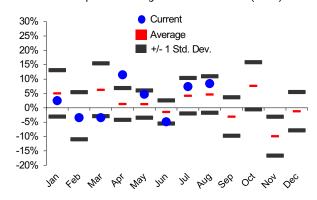


Source: Port of Long Beach, Morgan Stanley Research. Note: adjusted for Leap year and CNY



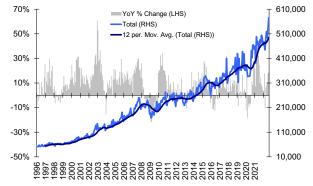
Savannah & Vancouver Port Trends

Exhibit 244: Sequential Change in Savannah Total (TEUs)



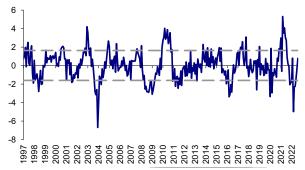
Source: Port of Savannah, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 246: Savannah Total (TEUs) Long-Term Trends



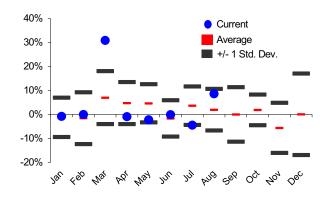
Source: Port of Savannah, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 248: Acceleration in LTM Savannah Total (TEUs)



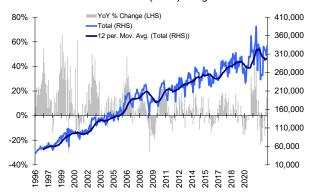
Source: Port of Savannah, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 245: Sequential Change in Vancouver Total (TEUs)



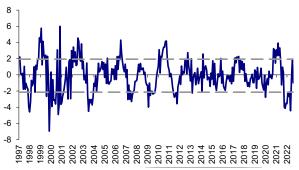
Source: Port of Vancouver, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 247: Vancouver Total (TEUs) Long-Term Trends



 $Source: Port of Vancouver, Morgan Stanley Research. \ Note: adjusted for Leap year and CNY$

Exhibit 249: Acceleration in LTM Vancouver Total (TEUs)

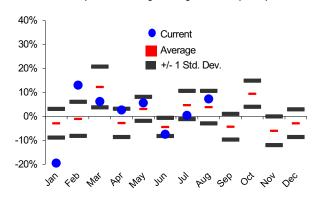


Source: Port of Vancouver, Morgan Stanley Research. Note: adjusted for Leap year and CNY



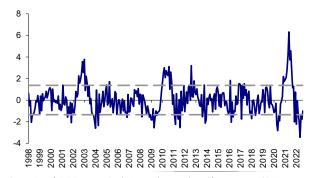
Virginia Port Trends

Exhibit 250: Sequential Change in Virginia Total (TEUs)



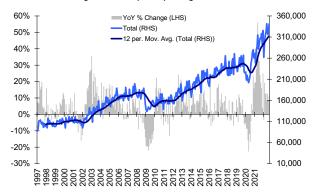
Source: Port of Virginia, Morgan Stanley Research. Note: adjusted for Leap year and CNY

Exhibit 252: Acceleration in LTM Virginia Total (TEUs)



 $Source: Port \ of \ Virginia, Morgan \ Stanley \ Research. \ Note: \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ CNY \ adjusted \ for \ Leap \ year \ and \ year \ adjusted \ for \ heap \ year \ and \ year \ adjusted \ for \ heap \ year \ and \ year \ adjusted \ year \ adjusted \ year \ adjusted \ year \ year$

Exhibit 251: Virginia Total (TEUs) Long-Term Trends



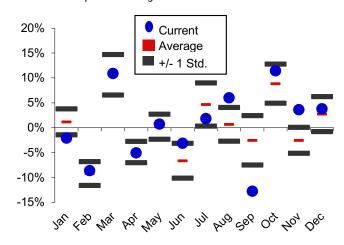
Source: Port of Virginia, Morgan Stanley Research. Note: adjusted for Leap year and CNY



2100

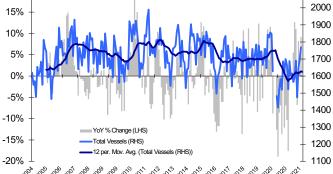
Panama Canal Trends

Exhibit 253: Sequential Change in Panama Total Vessels



Source: Panama Canal Authority, Morgan Stanley Research. Note: adjusted for Leap year

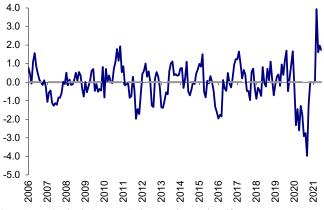
20%



Source: Panama Canal Authority, Morgan Stanley Research. Note: adjusted for Leap year

Exhibit 254: Panama Total Vessels Long-Term Trends

Exhibit 255: Acceleration in LTM Panama Total Vessels



Source: Panama Canal Authority, Morgan Stanley Research. Note: adjusted for Leap year



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(as of September 30, 2022)

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	COVERAGE UN	NIVERSE	INVESTMENT BANKING CLIENTS (IBC)		OTHER MATERIAL INVESTMENT SERVICES		
						CLIENTS (MISC)
STOCK RATING	COUNT	% OF	COUNT	% OF	% OF	COUNT	% OF
CATEGORY		TOTAL		TOTAL IBC	RATING		TOTAL
				C	CATEGORY		OTHER
							MISC
Overweight/Buy	1342	38%	295	41%	22%	590	39%
Equal-weight/Hold	1582	45%	335	47%	21%	702	46%
Not-Rated/Hold	0	0%	0	0%	0%	0	0%
Underweight/Sell	610	17%	84	12%	14%	219	14%
TOTAL	3,534		714			1511	

Data include common stock and ADRs currently assigned ratings. Investment Banking Clients are companies from whom Morgan Stanley received investment banking compensation in the last 12 months. Due to rounding off of decimals, the percentages provided in the "% of total" column may not add up to exactly 100 percent.

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INDUSTRY COVERAGE: Freight Transportation

COMPANY (TICKER)	RATING (AS OF)	PRICE* (09/30/2022
Ravi Shanker		
ArcBest Corp (ARCB.O)	O (12/10/2020)	\$72.73
C.H. Robinson Worldwide Inc. (CHRW.O)	U (06/09/2013)	\$96.3
Canadian National Railway Co. (CNR.TO)	E (12/02/2021)	C\$149.18
Canadian Pacific Railway Ltd. (CP.TO)	` ++	C\$92.2
CSX Corporation (CSXO)	U (12/10/2020)	\$26.6
Expeditors International of Washington I (EXPD.O)	U (12/02/2021)	\$88.3
FedEx Corporation (FDXN)	E (06/20/2013)	\$148.4
GXO Logistics, Inc (GXO.N)	E (08/12/2021)	\$35.0
Heartland Express Inc. (HTLD.O)	E (03/15/2022)	\$14.3
Hub Group Inc (HUBG.Ò)	E (02/13/2018)	\$68.9
J.B. Hunt Transport Services Inc. (JBHT.O)	E (05/06/2011)	\$156.4
Knight-Swift Transportation Holdings Inc (KNXN)	O (12/13/2017)	\$48.9
Landstar System Inc (LSTR.O)	U (02/23/2016)	\$144.3
Norfolk Southern Corp. (NSC.N)	U (06/03/2016)	\$209.6
Old Dominion Freight Line Inc (ODFL.O)	E (11/09/2021)	\$248.7
Saia, Inc. (SAIAO)	U (02/23/2016)	\$190.0
Schneider National Inc. (SNDR.N)	O (05/01/2017)	\$20.3
TFI International Inc (TFII.N)	O (06/10/2020)	\$90.4
TuSimple Holdings Inc (TSP.O)	O (05/10/2021)	\$7.6
Union Pacific Corp. (UNP.N)	E (03/23/2020)	\$194.8
United Parcel Service (UPS.N)	U (02/23/2016)	\$161.5
US Xpress Enterprises Inc (USXN)	E (12/02/2021)	\$2.4
Werner Enterprises (WERN.O)	O (02/23/2016)	\$37.6
XPO Logistics, Inc. (XPO.N)	O (07/08/2022)	\$44.5

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^{*} Historical prices are not split adjusted.