Extended Freight Update

Prepared for:



Prepared by:



Transportation and Logistics Advisors, LLC

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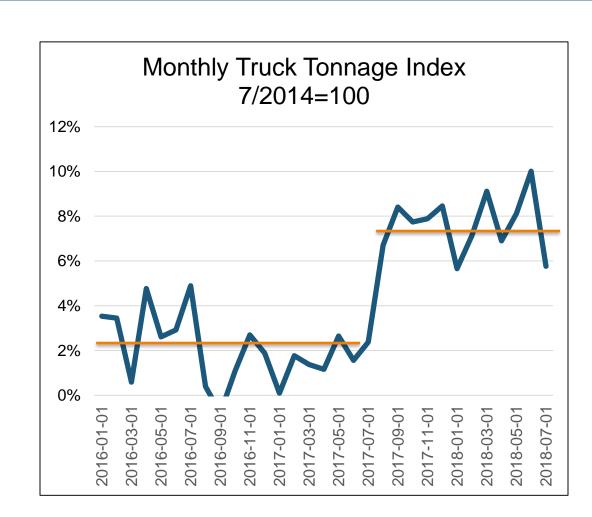
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Agenda

- Recent Transportation Trends
- Outlook Going Forward
- What Can Shippers Do?

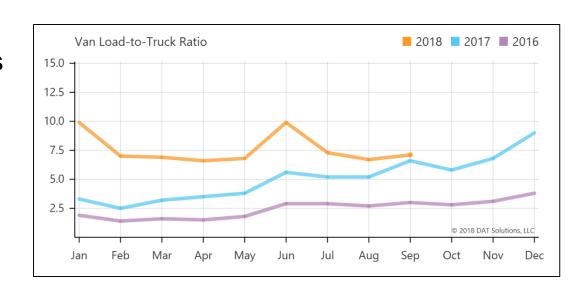
Trucking tonnage took off in Q3, 2017 and has remained strong, but now is up against stronger comps

- Truck tonnage was up an average of 2.1% year over year in 2016 and 1H 2017
- 2H 2017 through July 2018 truck tonnage up an average of 7.7% year over year
- August 2018 up 4.5% year over year - still healthy, but up against stronger comps



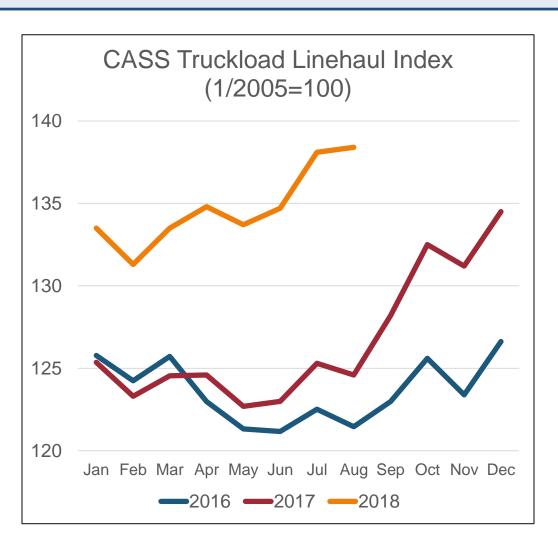
Demand has been strong for spot demand, but relatively steady over the last 12 months

- DAT dry van load-totruck ratio up dramatically from 2016 and 1H 2017
- However, last 12 months have been relatively stable



Truckload rates have continued to increase heading into peak season

- Rates have averaged
 8.5% above 2017 levels
- July and August, 2018
 had the highest spread of
 the year vs. 2017 levels:
 >10%
- ATA data states that YTD truckload revenue/mile up 18%



Several factors have come together at the same time to impact trucking

| ELD Rule Strong Economy Driver Shortage | je |
|--|---|
| Electronic Logging Devices (ELD's) record driver hours-of-service April 1, 2018 full enforcement More difficult for drivers to cheat Has major impact for some shipments 450-550 miles More difficult drivers Moves/day in short Q2, 2018 economic growth of 4.2% Increasing shipment volume Increasing shipment volume More stringent safety requirent eliminate poor drivers Driver shortage to several factor Recoveries in manufacturing, construction More stringent safety requirent eliminate poor drivers Drug test elimin a percentage of potential driver Minimum age of the contraction of the several factor of the several fa | due s nents nate of the base |

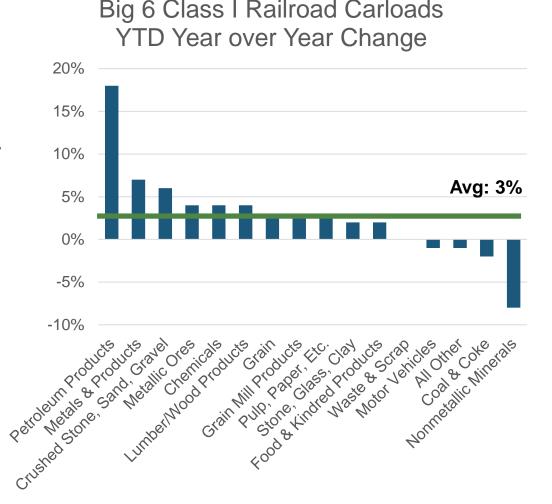
Rail intermodal, an alternative to truck for long moves, is also up

- Rail intermodal is an alternative to long-haul trucking moves
- Rail intermodal volumes are up year over year by a weighted average of 6.4%
 - Growth slower than truckload volume growth



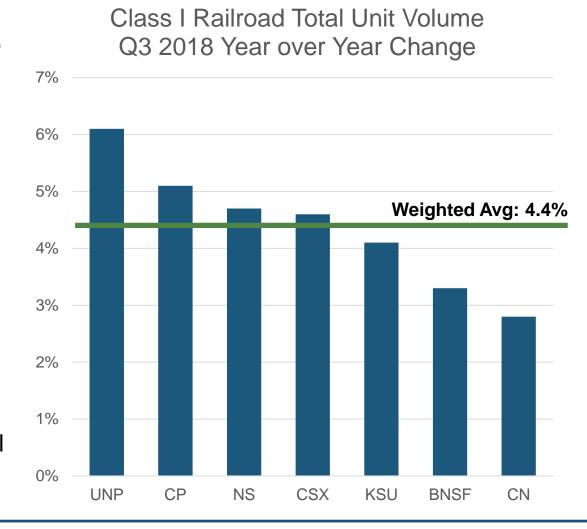
Even rail carload is up about 3% year over year

- Carload volume up about 3% in 2018
- Increases across most carload commodities
- Industry has been in longterm volume decline
 - 9M 2018 carloadvolumes ~5% below 9M2015 levels



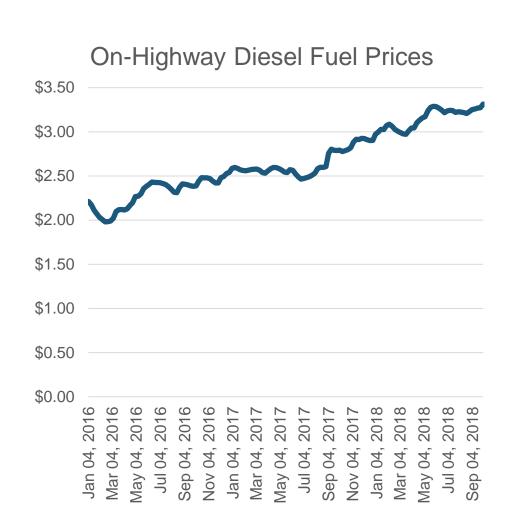
Rail carload Q3 2018 volume was stronger than the first half of the year, although with some differences by railroad

- Carload 4.1% volume growth higher than YTD average
 - Q3 overall (carload + intermodal) growth of 4.4%
- Strong volume despite Hurricane Florence
- Service quality down, not just with eastern railroads
 - Average velocity down 2.2%
 - Average terminal dwell time up 2.9%



Diesel fuel prices continue to drift upward – adding to carrier operating costs and, through fuel surcharges, shipper costs

- National diesel fuel price about \$3.30/gallon, up about \$0.52 (19%) from year ago
- In 2017, fuel accounted for an estimated 22% of truckload operating costs
 - Fuel price increase added about 4% to trucking costs
- Diesel fuel prices have increased to levels last seen in late 2014



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Truck rates increases likely to continue, but at a slower pace

- It was about 14 months ago that trucking took off
 - Going forward, volume and rates will be against stronger comps
- 2018 crunch was about demand and supply
 - Strong volume growth
 - ELD's came into effect cutting capacity, but chaos of cut-over has passed
- 2019 rate environment more likely to be based on demand
 - Less likely to be a new supply shock
 - New trucks on order are on the way

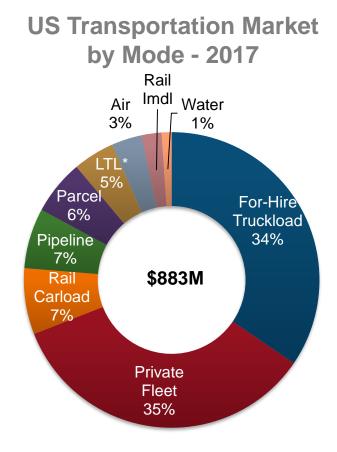
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However, the truck driver shortage is a structural element that will take time to address

- Driver wages are likely to continue higher, with these costs passed on to shippers
 - In 2017, driver costs accounted for an estimated 43% of truckload carrier operating costs
 - 2017 average driver comp increased 7.5%, and that was with weak first half demand
 - 3.7% unemployment rate may pull some drivers to other jobs
 - Minimum age of 21 means potential driver base may get started in other careers
 - Drug and safety requirement limit drivers that can enter the workforce and remain
- New technologies are a long way off
 - Driverless trucks are many years away
 - Solutions like platooning may help in some lanes, but not likely to move the needle

Other transportation modes can help, but only on the margin

- Trucking is so big that other modes can't handle significant volume shifts
 - Rail intermodal is estimated at ~\$20 B vs. \$300 B of for-hire truckload
 - Rail intermodal still has a trucking component to the move
- Rail carload take planning and longer lead times
 - Not a potential option for many products
- Air, parcel, and barge are rarely viable alternatives for the vast majority of freight



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Shippers have options to make things better – but they are not easy

| Be A Preferred Shipper (Easy) | Change the Economics (More Difficult) |
|---|--|
| Pay fast Be flexible Turn trucks/driver quickly Have driver-friendly amenities However A shipper can only control their side of the shipment And they only help on the margin | Make changes that help the carrier get higher utilization from the driver and/or the truck Make changes to get more shipped in each load However, These changes often require a company-wide effort But they can have a big impact |

Be open for pick up and delivery 7 days a week

| Opportunity | Benefit | Challenge |
|--|--|---|
| Weekends are OK if they are drive time, but wasted if a driver is empty or loaded near the destination | Better utilization of driver and equipment if they can get loaded or empty faster Drivers make money when they drive, so more miles = more income | Have to change operations to support 7 day operations Added operating cost, but with transportation benefit and earlier delivery |

Extend hours so drivers can avoid congestion and best manage their working hours

| Opportunity | Benefit | Challenge |
|---|--|--|
| Morning delivery and afternoon pick up put drivers into rush hour traffic (on the clock) Extend or modify hours so drivers can make stops outside congested times Better utilize the driver's available working hours | Better utilization of driver and equipment if they can get loaded or empty faster Drivers make money when they drive, so more miles = more income | Have to change operations to support longer daily operations Requires more communication with the carriers/drivers to understand timing |

Be more flexible on pick up and delivery times

| Opportunity | Benefit | Challenge |
|--|--|--|
| Often deliveries are in the morning and pick ups in the afternoon This only works if it aligns with the drivers HOS Support morning pickups and afternoon deliveries to better match truck driver work hours | Better utilization of driver and equipment if they can get loaded or empty faster Drivers make money when they drive, so more miles = more income | Have to change operations to support more fluid shipping and receiving Requires more communication with the carriers/drivers to understand timing |

Change packaging to make sure you weigh out a trailer

| Opportunity | Benefit | Challenge |
|---|--|---|
| Some products cube out instead of weighing out Look for opportunities to redesign packaging to take out empty space Make sure packaging | More product shipped per shipment = less shipment required Lower cost/ton shipped | Requires input from packaging staff May require input from marketing staff |
| allows for stacking pallets | | |

Increase order quantities to decrease transportation spend

| Opportunity | Benefit | Challenge |
|--|--|---|
| Increase customer order quantities to allow for mode shift or to better fill out a trailer | Mode shift can save 50% or more off shipping costs Parcel to LTL LTL to TL multi-stop TL multi-stop to TL Additional volume to fill out a trailer comes at virtually no incremental cost | Could require input of sale staff to coordinate with customer Could require input of production staff Could require customer to hold more inventory |



Lee A. Clair
Managing Partner
312-961-4403

Iclair@TandLA.net

1910 First Street Suite 300 Highland Park, IL 60035

TandLA.net