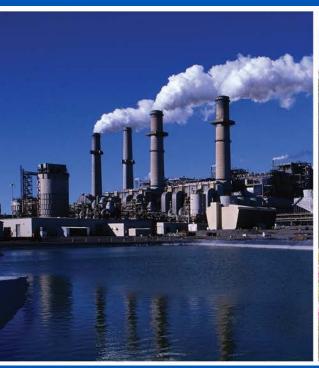
#### **National Insulation Association (NIA)**









Supply Chain Disruptions: The Impact of COVID-19 on the Trucking Industry

Presenter: Dan Murray, Senior Vice President, American Transportation Research Institute (ATRI)

### **Board of Directors**



























THE TRANSPORTATION SOLUTION





#### Research Advisory Committee







































C.H. ROBINSON































## 2019 Top Industry Issues

- 1. Driver Shortage (1)
- 2. Hours-of-Service (2)
- 3. Driver Compensation (new)
- 4. Detention/Delay at Customer Facilities (new)
- 5. Truck Parking (5)
- 6. Driver Retention (3)
- 7. ELD Mandate (4)
- 8. CSA (6)
- Transportation Infrastructure/ Congestion/Funding (8)
- 10. Economy (10)

#### CRITICAL ISSUES IN THE TRUCKING INDUSTRY – 2019



Presented to the American Trucking Associations

#### Prepared by

The American Transportation Research Institute
October 2019



950 North Glebe Road Arlington, VA 22203 (703)838-1966 ATRI@trucking.org TruckingResearch.org



## 2019 Top Industry Issues

#### **Commercial Drivers**

- 1. Driver Compensation
- 2. Hours-of-Service
- 3. Truck Parking
- 4. ELD Mandate
- 5. Detention/Delay at Customer Facilities
- **6.** Speed Limiters
- 7. Driver Training Standards
- 8. Driver Distraction
- 9. Transportation Infrastructure/ Congestion/Funding
- 10. Autonomous Truck Technology

#### **Motor Carriers**

- 1. Driver Shortage
- 2. Driver Retention
- 3. Hours-of-Service
- 4. CSA
- 5. Transportation Infrastructure/ Congestion/Funding
- 6. Detention/Delay at Customer Facilities
- 7. Economy
- 8. ELD Mandate
- 9. Insurance Cost/Availability
- 10. Tort Reform



# ATRI COVID Research

- 1. COVID Impacts on Truck Flows
- 2. COVID Impacts on Freight Activity Levels
- 3. Industry Survey of COVID Impacts



# **COVID-19 Impacts**

- Joint survey with OOIDA Foundation
- 5,000+ respondents over 2 weeks
  - 77% drivers
  - 68.6% fleets with fewer than 50 trucks
  - ♦ 65.5.% TL

#### COVID-19 IMPACTS ON THE TRUCKING INDUSTRY



April 2020

Prepared by

The American Transportation Research Institute



The OCIDA Foundation

OCIDA Foundation

RESEARCH - SAFETY - EDUCATION

WWW.OCIDA.com



# **Average Length of Haul Changes**

	Before Pandemic	During Pandemic
Local (less than 100 miles per trip)	7.8%	18.2%
Regional (100-499 miles per trip)	31.0%	33.8%
Inter-regional (500-999 miles per trip)	28.6%	25.2%
Long-Haul (1,000+ miles per trip)	32.7%	22.7%



#### **Congestion Costs the Economy**

ATRI research findings:



#### \$74.5 billion

Annual cost to the trucking industry as a result of congestion on the nation's highways

Lost hours of trucking industry productivity due to congestion



#### 425,533

Equivalent number of truck drivers sitting idle for an entire year



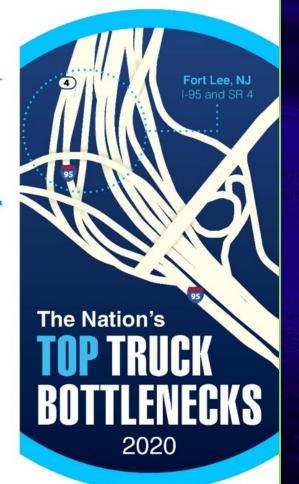
the number of locations experiencing significant congestion with average daily speeds of 45 MPH or less - has increased 92 percent in just five years, far outpacing the 10 percent growth in traffic congestion for that same time period.

#### States with Most Bottlenecks

Texas11	Pennsylvania
California7	Tennessee
Georgia7	Washington
New York 7	Minnesota

To view the top 100 list of truck bottlenecks along with detailed profiles for each location, please visit ATRI's website:

TruckingResearch.org





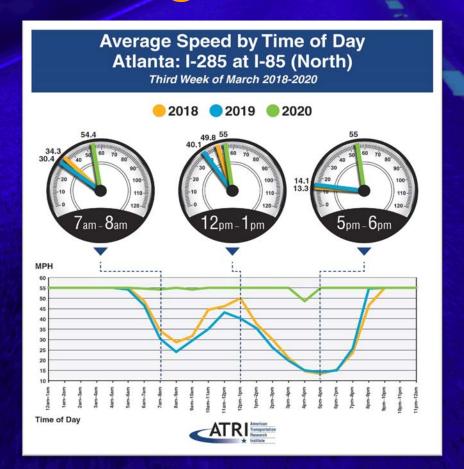


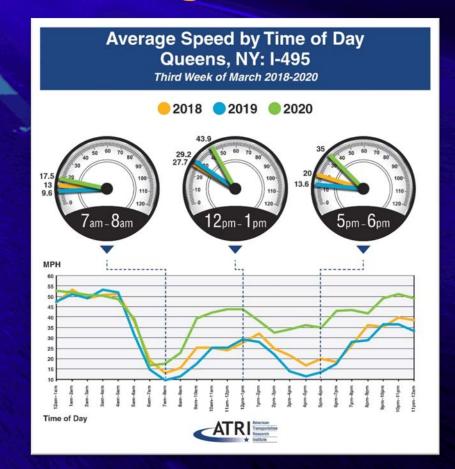
# 2020 Top 10 Truck Bottlenecks

Rank	Location	Average Peak Speed	YOY Change in Average Peak Speed
1	Fort Lee, NJ: I-95 at SR 4	22.4	5.1%
2	Atlanta, GA: I-285 at I-85 (North)	22.4	-0.6%
3	Nashville, TN: I-24/I-40 at I-440 (East)	24.0	-12.0%
4	Houston, TX: I-45 at I-69/US 59	20.5	-8.6%
5	Atlanta, GA: I-75 at I-285 (North)	29.2	5.0%
6	Chicago, IL: I-290 at I-90/I-94	16.1	-2.6%
7	Atlanta, GA: I-20 at I-285 (West)	36.4	-0.8%
8	Cincinnati, OH: I-71 at I-75	36.0	-5.1%
9	Los Angeles, CA: SR 60 at SR 57	33.1	-1.9%
10	Los Angeles, CA: I-710 at I-105	25.2	-4.1%



### **Congestion Down during COVID**

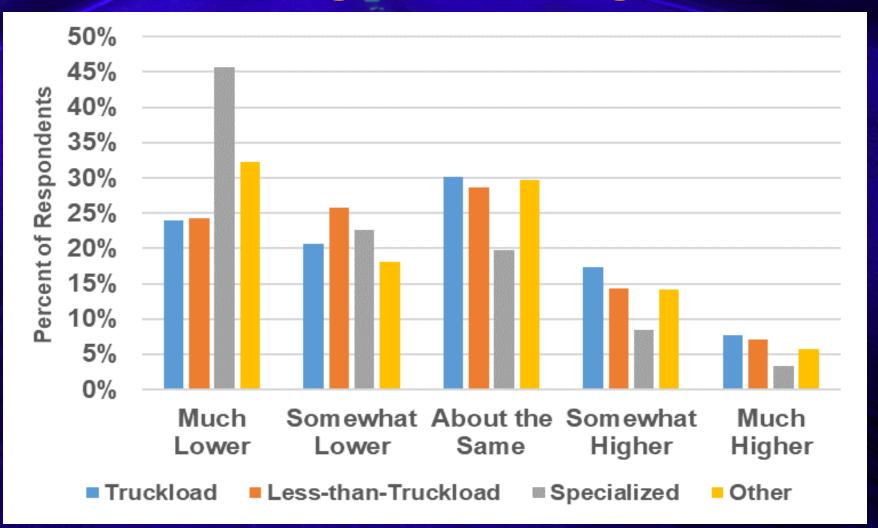




Transportation

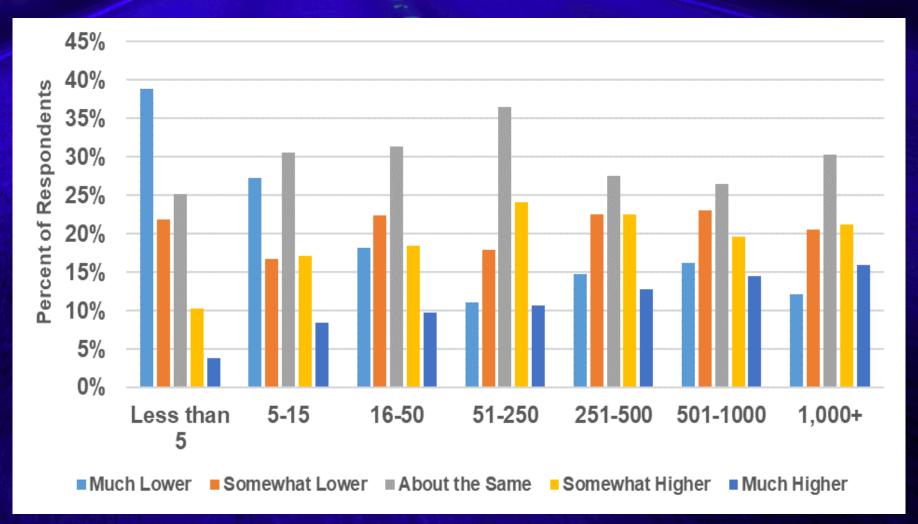
87% of respondents said traffic congestion is reduced during COVID

## **COVID Changes to Freight Levels**





# **COVID Changes to Freight Levels**





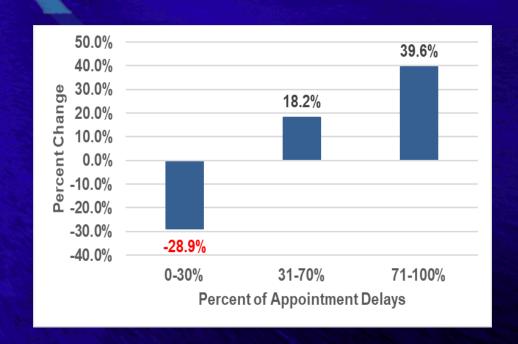
# **COVID-19 Impacts**

- Overall, 44% reported truck parking "somewhat harder" or "much harder" to find
- Overall, 34% reported longer detention times; more pronounced among smaller fleets
  - 73% of respondents who reported longer detention times were from fleets of fewer than 50 trucks



# **Detention Getting Worse**

- Between 2014 and 2018, drivers reported 27.4% increase in delays of 6+ hours
- Nearly 40% increase in drivers reporting majority of appointments delayed due to customer actions





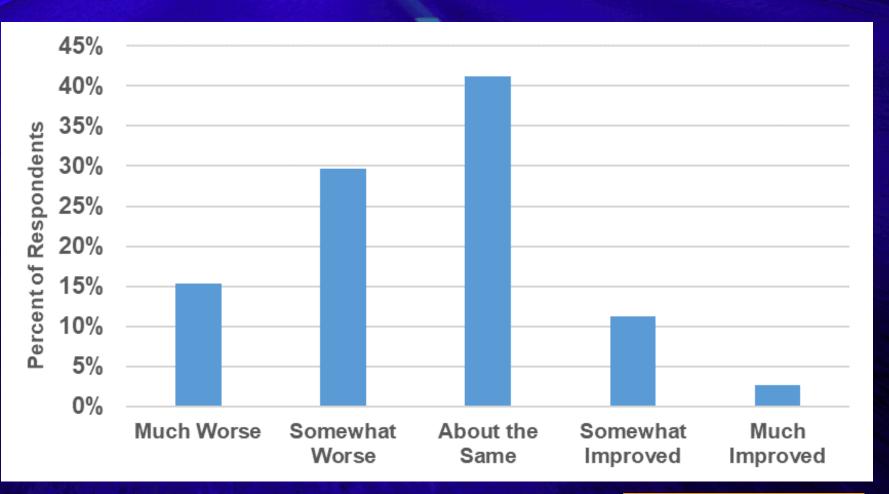
#### **Detention Costs Fleets and Drivers**

 Average excessive detention fee per hour charged by fleets was \$63.71, less than \$71.78/hour from ATRI's Operational Costs of Trucking

20% of smaller fleets (<50 power units) do not charge detention in order to stay competitive with larger fleets



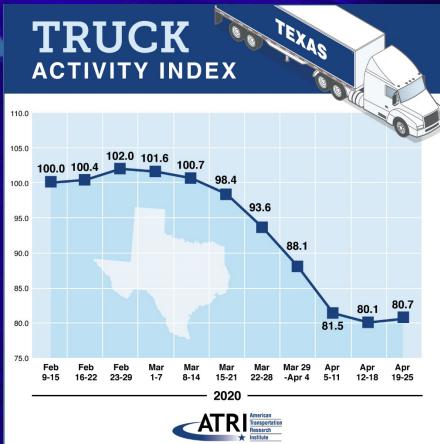
# **Expected Changes in Freight Volumes Next Few Months**





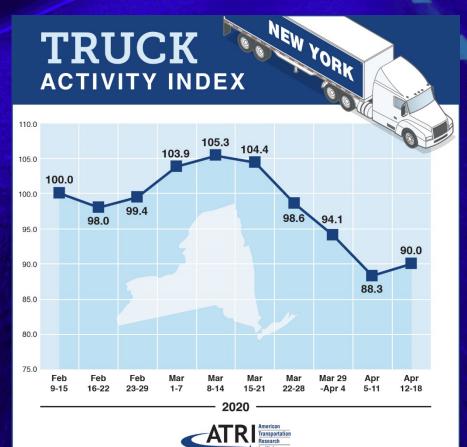
# **Truck Activity Impacts**







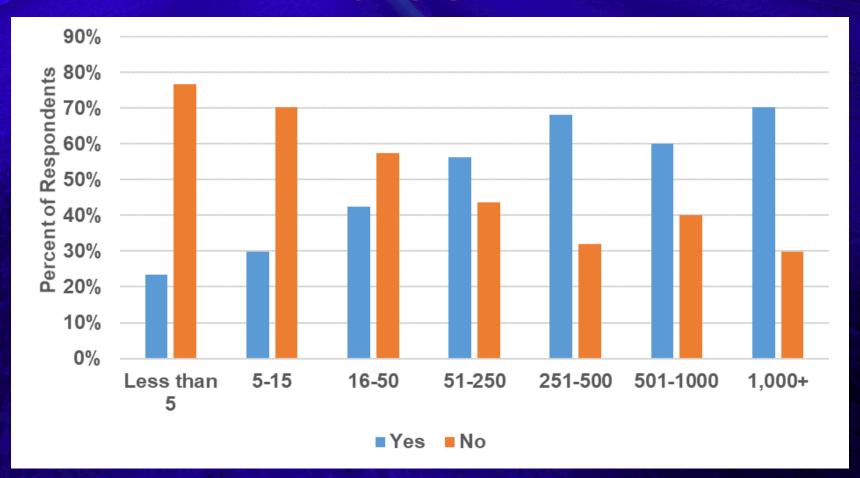
# **Truck Activity Impacts**







# Disaster Response Plan in Place Pre-COVID





#### 2020 Top Research Priorities

- Impact of Small Settlements on the Trucking Industry
- Rethinking VMT-Based Safety Metrics
- Owner-Operators/Independent Contractors in the Supply Chain
- VMT Cost-Benefit Analysis
- Impacts of Rising Insurance Costs on Industry Operational Costs



### **Operational Costs of Trucking**

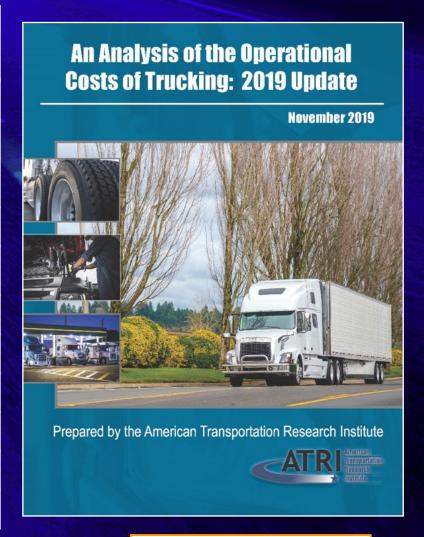
#### **Average Carrier Costs per Mile**

Motor Carrier Costs	2014	2015	2016	2017	2018
Vehicle-Based					
Fuel Costs	\$0.583	\$0.403	\$0.336	\$0.368	\$0.433
Truck/Trailer Lease or Purchase Payments	\$0.215	\$0.230	\$0.255	\$0.264	\$0.265
Repair & Maintenance	\$0.158	\$0.156	\$0.166	\$0.167	\$0.171
Truck Insurance Premiums	\$0.071	\$0.074	\$0.075	\$0.075	\$0.084
Permits and Licenses	\$0.019	\$0.019	\$0.022	\$0.023	\$0.024
Tires	\$0.044	\$0.043	\$0.035	\$0.038	\$0.038
Tolls	\$0.023	\$0.020	\$0.024	\$0.027	\$0.030
Driver-Based					
Driver Wages	\$0.462	\$0.499	\$0.523	\$0.557	\$0.596
Driver Benefits	\$0.129	\$0.131	\$0.155	\$0.172	\$0.180
TOTAL	\$1.703	\$1.575	\$1.592	\$1.691	\$1.821



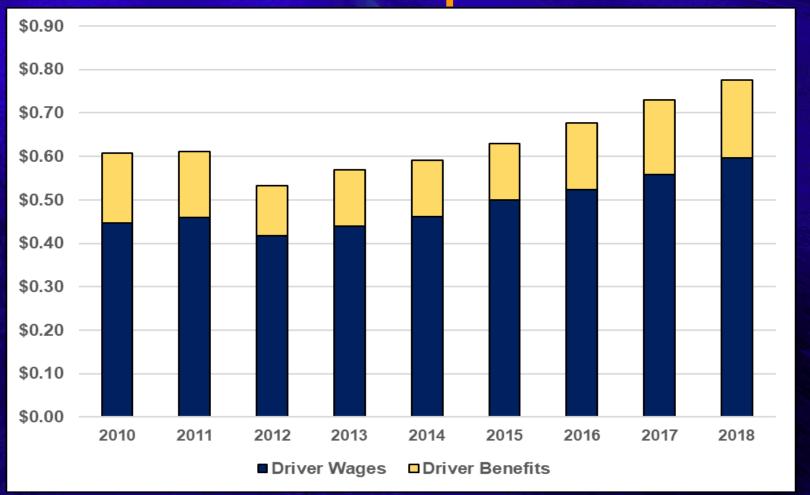
# **Operational Costs of Trucking**

Motor Carrier Costs	2018 Share of Total Cost
Vehicle-Based	
Fuel Costs	24%
Truck/Trailer Lease or Purchase Payments	15%
Repair & Maintenance	9%
Truck Insurance Premiums	5%
Permits and Licenses	1%
Tires	2%
Tolls	2%
Driver-Based	
Driver Wages	33%
Driver Benefits	10%



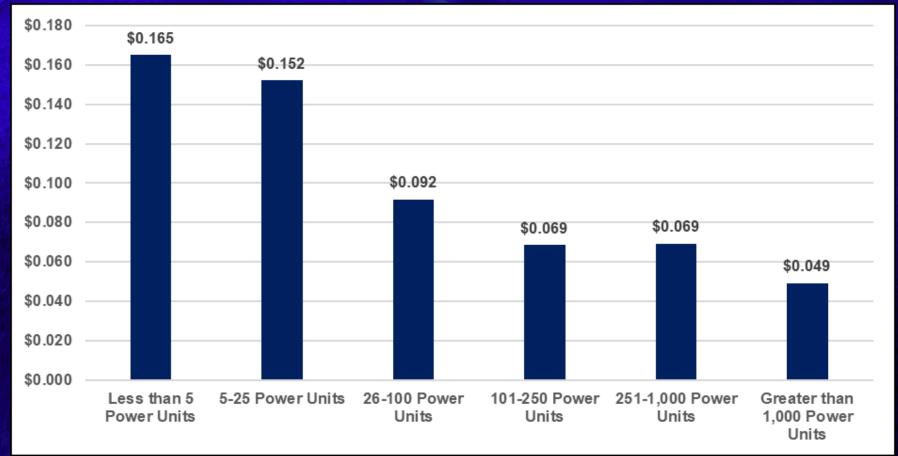


# Driver Wages Up 43% Since 2012; Benefits Up 55%



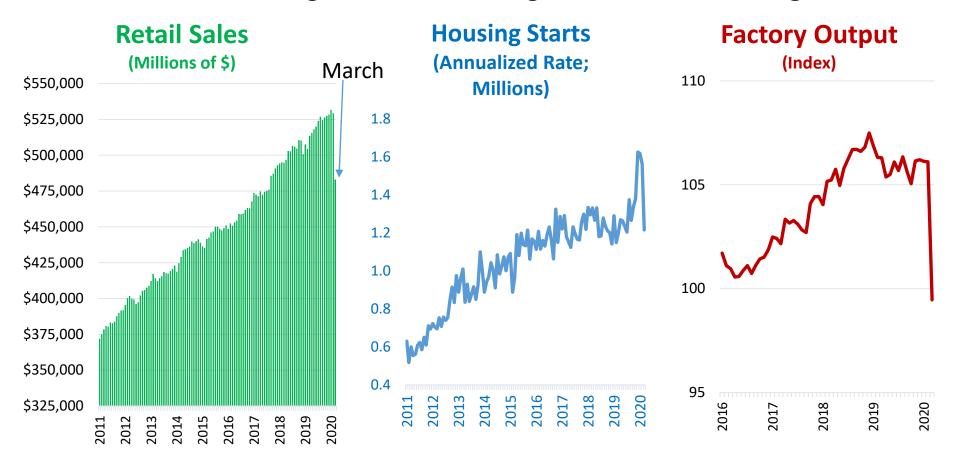


# Insurance Cost Per Mile by Fleet Size





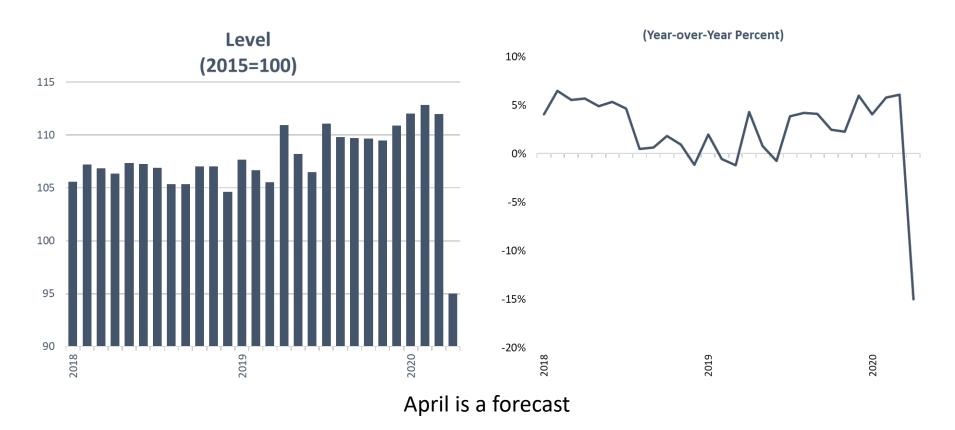
#### **Drivers of Truck Freight Started Cracking from COVID-19 during March**



Sources: Census Bureau and Federal Reserve



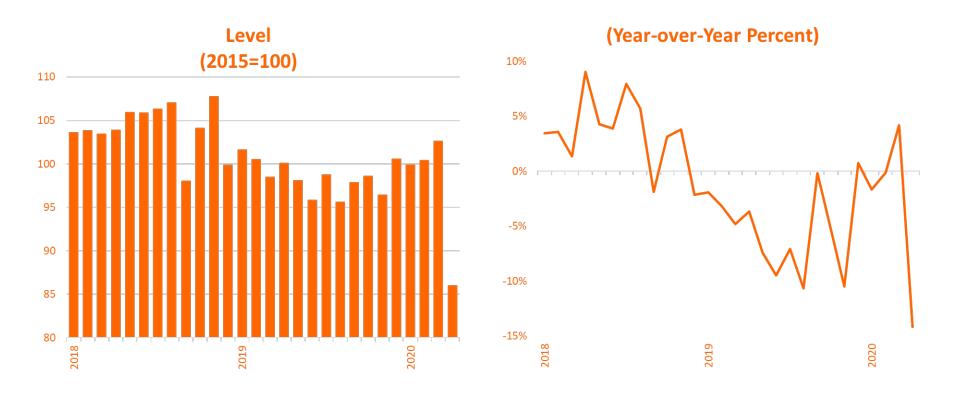
#### **For-hire TL Contract Loads**



Source: American Trucking Associations' Trucking Activity Report



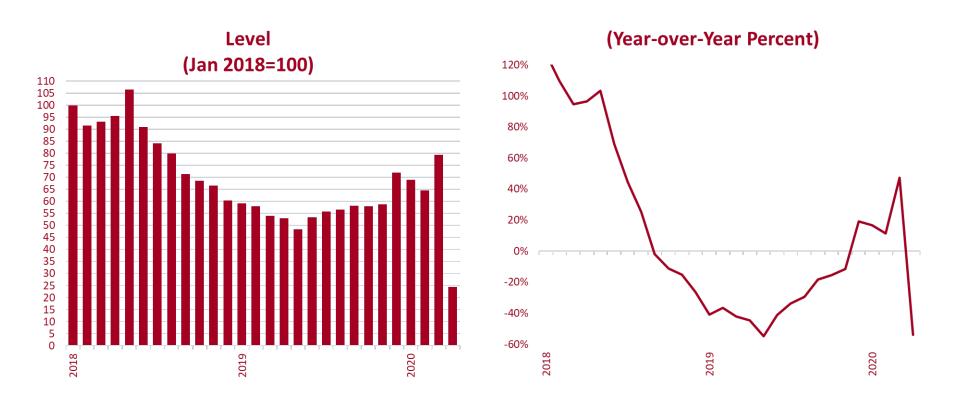
#### For-hire LTL Tonnage



April is a forecast Source: American Trucking Associations' *Trucking Activity Report* 



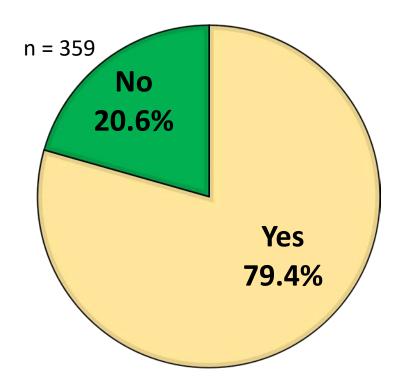
#### **Spot Market Loads**



Source: DAT.com & ATA



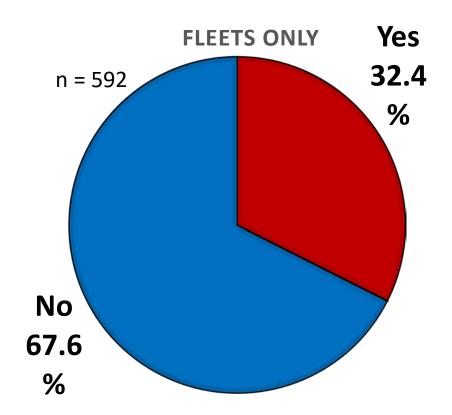
# For-Hire Fleets that Qualified: Did You Apply for the Payroll Protection Plan?



Source: ATA's COVID-19 Survey



# Due to Coronavirus, have you had to lay off or furlough any employee drivers or release any independent contractor drivers?





# **Questions?**

Dan Murray

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www.TruckingResearch.org
@Truck\_Research



#### **Thank You for Participating!**

All attendees will be emailed a copy of the webinar recording and PowerPoint presentation after the session.

#### **Additional Resources**

Please visit NIA's website, <u>www.insulation.org/webinars</u>, for more information on upcoming webinar topics. Visit <u>www.insulation.org/covid</u> for COVID-19 and related information specifically for the insulation industry.

We thank you for your ongoing commitment to NIA. Please take care of yourself, your family, and your business. If we can be of service during this time, please contact NIA by emailing <a href="mailto:webinar@insulation.org">webinar@insulation.org</a> or by calling 703-464-6422.