



SAFE VEHICLES

IN THE REGULATED TRADE WASTE INDUSTRY

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COMMISSIONER AND CHAIR



RESEARCH ON THE ROAD
NOVEMBER 2024



THE COMMISSION

CHAIRER BY BIC
ALSO INCLUDES THE COMMISSIONERS
OR DESIGNEES OF:



CORE MISSION

- Regulate **Trade Waste Industry** & the **Public Wholesale Markets**
- Protect consumers, legitimate businesses, and **ensure a fair and competitive market**
- Vet companies for **integrity, criminality, and public safety**



AGENCY BACKGROUND

1987: Racketeering case alleged that Fulton Fish Market and its union controlled by the Genovese crime family



1996: Local Law 42 created the Trade Waste Commission (TWC)



2016: BIC joins Vision Zero Task Force



2021: BIC new traffic and vehicle safety rules go into effect in August



1995: DANY indictment showed NYC's trade waste industry controlled by organized crime



2001: Markets Division of SBS combined with TWC and renamed BIC



2019: Local Law 198 officially expands authority to include traffic safety for the trade waste industry

2023: January 1, Side Guard Law for the industry goes into effect.

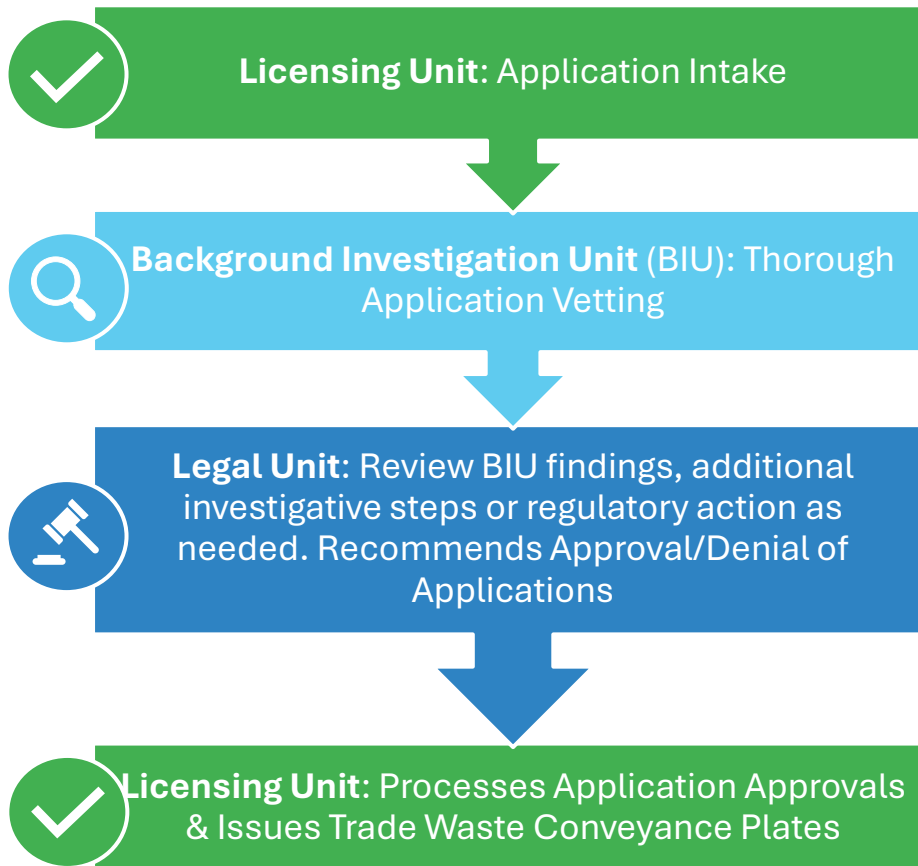
September, first BIC investigators certified to conduct motor carrier inspections





AGENCY FUNCTION

Reviewing Applications of Companies Seeking a License or Registration to Perform Commercial Waste Removal Services to determine good character, honesty, and integrity:



Other Units Involved in Regulation and Enforcement:



Investigations



Audit



Violations



Policy



TRADE WASTE COMPANY TYPES

LICENSEES

- **290** Companies
- **2,250** Total Trucks
- Haul putrescible waste, recyclables, or specialty waste from NYC commercial establishments

REGISTRANTS

- **1,500** Companies
- **4,650** Total Trucks
- Haul construction and demolition debris from NYC job sites or landscaping material

SAFETY CHALLENGES

- Operate mainly overnight – visibility
- Long routes – driver fatigue
- Collection on street – proximity to vulnerable road users
- Operate mainly during the day – more pedestrians and cyclists on the road
- Primarily long-nose dump trucks – visibility



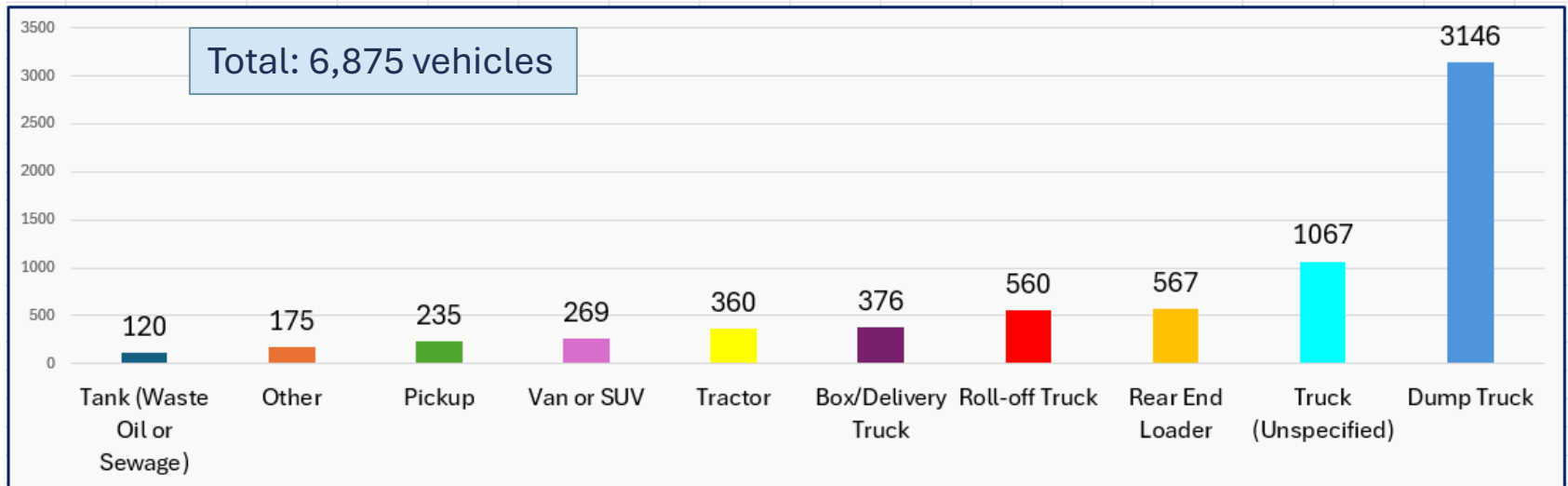
Drivers engage in unsafe behavior **to complete waste collection faster:**

- U-turns
- Backing up
- Driving wrong way
- Blocking bike lanes and crosswalks





TRADE WASTE FLEET BY TRUCK TYPE



Truck Type	Count	%
Dump Truck	3146	46%
Truck (Unspecified)	1067	16%
Rear End Loader	567	8%
Roll-off Truck	560	8%
Box/Delivery Truck	376	5%
Tractor	360	5%
Van or SUV	269	4%
Pickup	235	3%
Other	175	3%
Tank (Waste Oil or Sewage)	120	2%

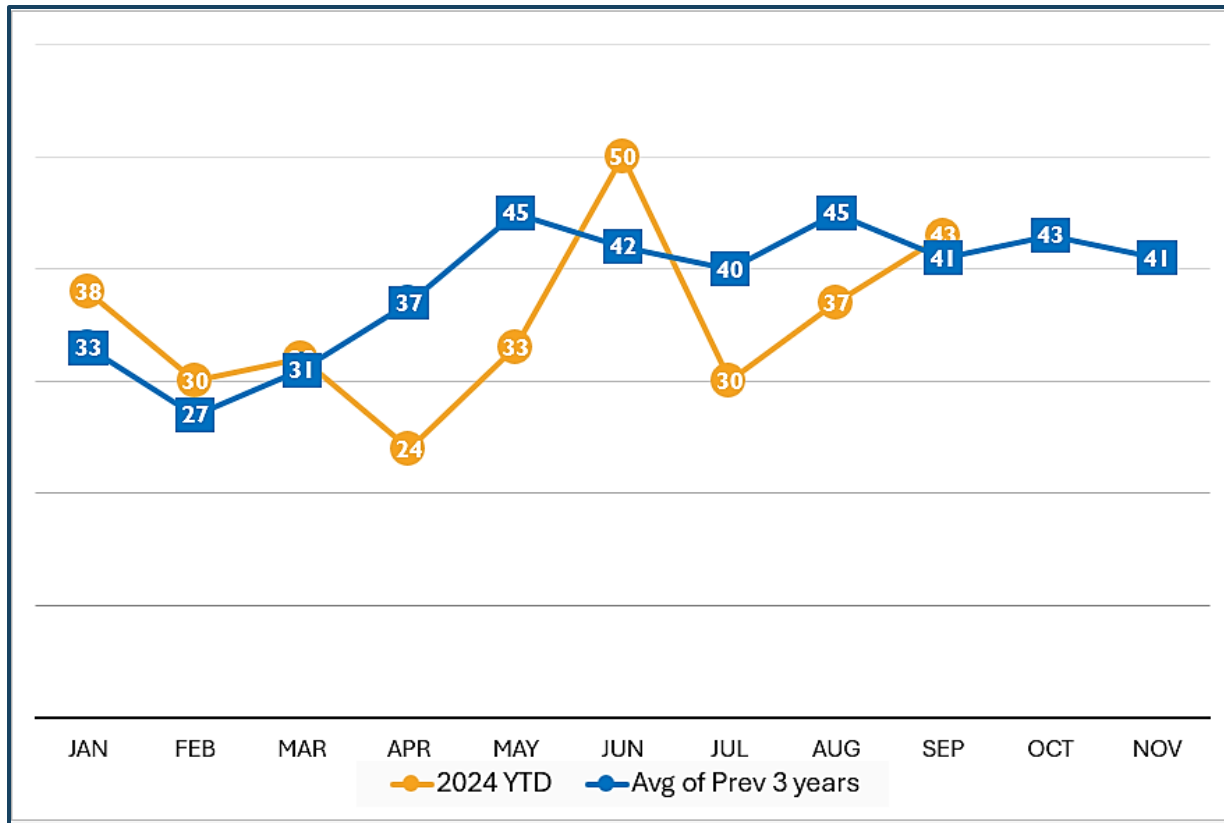


ALL CRASHES – MONTH OVER MONTH

	2021	2022	2023	2024 YTD
Jan	39	32	27	38
Feb	31	27	23	30
Mar	28	35	30	32
Apr	28	36	46	24
May	43	45	46	33
Jun	39	45	42	50
Jul	44	39	38	30
Aug	37	49	50	37
Sep	48	34	42	43
Oct	38	55	36	
Nov	40	44	40	
Dec	33	42	36	
Crashes thru Sept	337	342	344	317
Year Total	448	483	456	N/A



ALL CRASHES – MONTH OVER MONTH



CURRENT TREND:

Total crashes **2024 YTD**
[Jan-Sept] **-7%**
compared to previous
three-year average



CRASH SEVERITY

2024 YTD vs. PREVIOUS TWO-YEAR AVERAGE

Type	Previous Two-Year Average	2024 YTD	Trend
Other	1%	1%	—
Injury	37%	45%	↑
Property Damage	62%	54%	↓






CURRENT TREND:

8% increase in injury collisions in 2024 YTD, corresponding decrease in property damage collisions



ALL CRASHES

MODE AND COMPANY TYPE

MODE		PREVIOUS 3-YEAR AVERAGE	2024 YTD
	Motor Vehicle	88% (405)	89% (242)
	Other	4% (51)	3% (8)
	Pedestrian	3% (13)	4% (14)
	Fixed Object	3% (16)	2% (7)
	Bicyclist	2% (11)	2% (6)

CONSISTENT TREND:

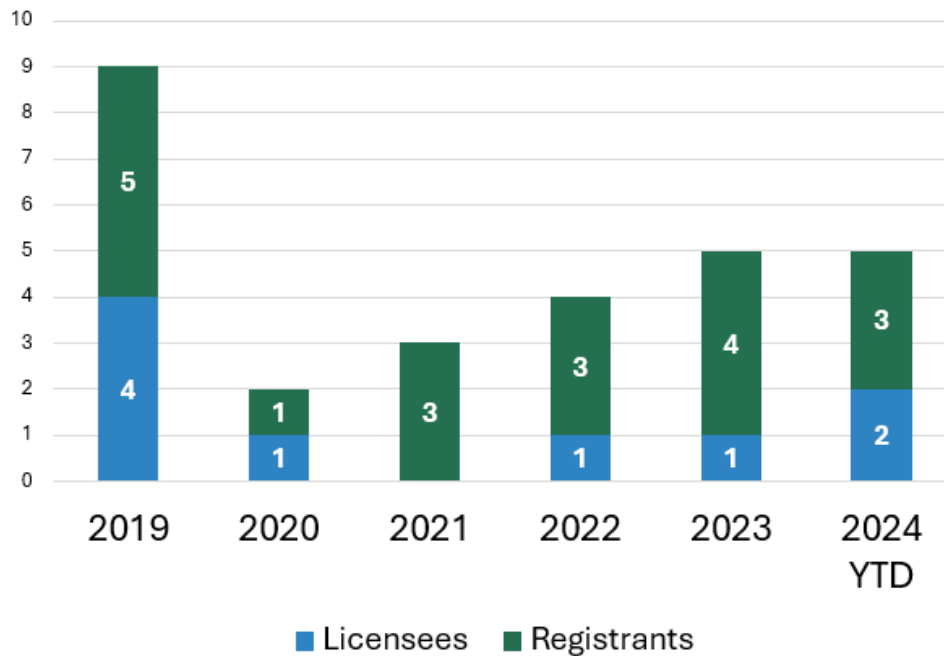
Vast majority involve a trade waste truck and another MV . . .

COMPANY TYPE	PREVIOUS 3-YEAR AVERAGE	2024 YTD	TREND
Registrants	53% (245)	57% (181)	↑
Licensees	47% (217)	43% (136)	↓



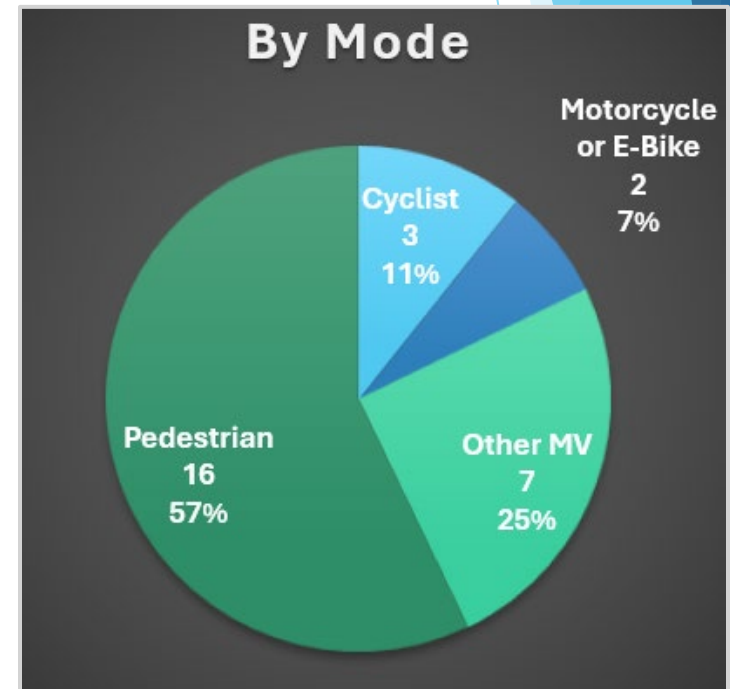
FATAL CRASHES ONLY - SINCE 2019

Number of Fatal Crashes Involving TW Companies Annually



... but when a pedestrian or cyclist is involved, it is far more likely to be a fatality

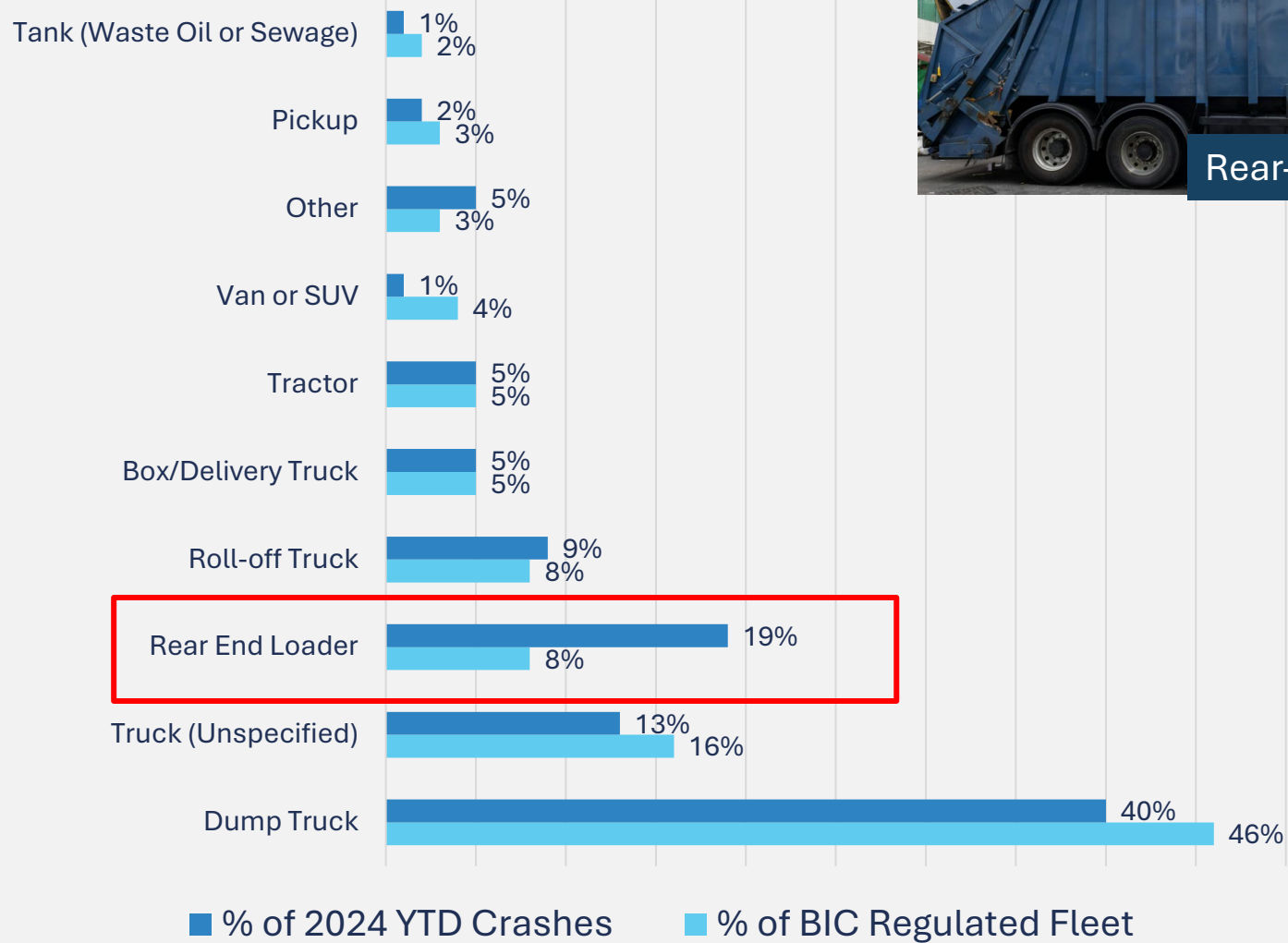
By Mode





CRASHES/TRUCK TYPE COMPARISON

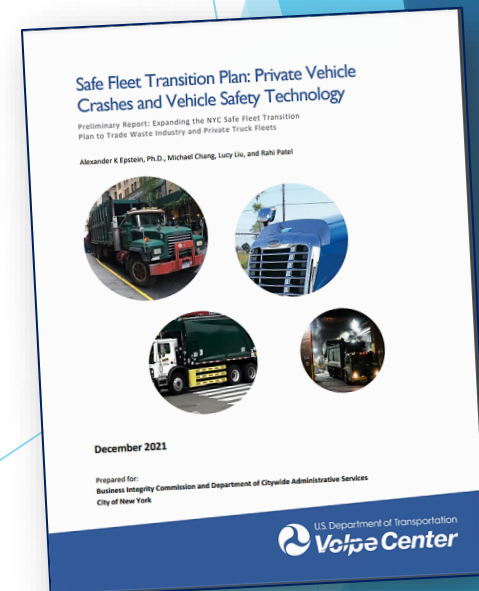
317 Crashes 2024 YTD





IDENTIFYING CAUSES OF CRASHES TO INFORM SOLUTIONS

- 2021 DCAS/Volpe **Safe Fleet Transition Plan for Private Waste Industry**
 - Released December 2021 – Based on BIC fatal crash data from 2010 to 2019
- Focus on **vehicle design** and **efficacy of safety technologies**
 - To identify preliminary best practices
 - And inform BIC policies including 2021 safety rules and requirements
- **Key Findings:**
 1. Prevalence of start-from-stop **visibility-related crashes** involving conventional cab trucks implied a need for improving the driver's direct vision
 2. Crashes involving trucks without side guards were fatal **25%** of the time; crashes with side guard-equipped trucks were fatal **15%** of the time
- **Limitations of the study:**
 - Small sample size
 - Limited types of data available
- **Opportunities for future additional studies:**
 - BIC has more crash data now
 - Enforcement data since 2021 new safety rules in effect available
 - Side guard compliance and enforcement now in effect





BIC's ROLE IN INDUSTRY SAFETY

Company Operations

- ✓ Annual safety training required
- ✓ Defensive driving training every 3 years required
- ✓ Must disclose all crashes to BIC
- ✓ BIC outreach events and industry-wide communications

Safe Vehicles

- ✓ Side Guard requirement
- ✓ Convex Mirror requirement
- ✓ Windshield obstructions prohibited
- ✓ Daily Driver Vehicle Inspection Reports (DVIRs) mandatory
- ✓ Inspection by Qualified Inspector every 6 months required
- ✓ Remove unsafe vehicles from the road
- Vehicle Type/Design

Driver Behavior

- ✓ Unsafe practices prohibited – U-turns, backing up, driving wrong way, obstructing bike lanes/ crosswalks/ sidewalks, workers clinging to the outside of the vehicle
- ✓ Must disclose all driver license suspensions or revocations
- ✓ Remove unsafe drivers from the road

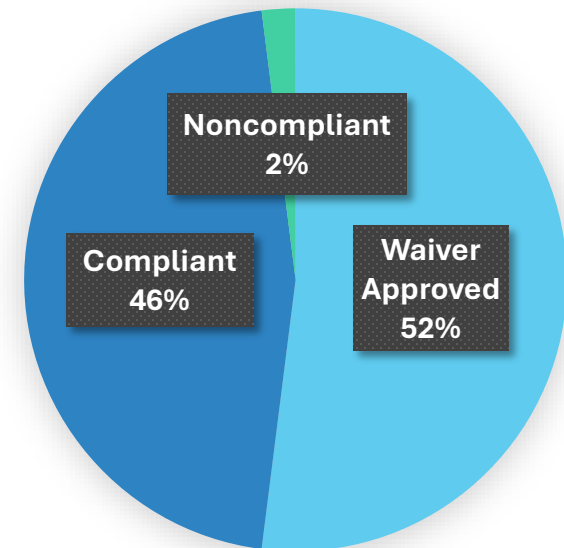


SIDE GUARD COMPLIANCE

- Effective **1/1/2023** for trade waste vehicles with GVWR of **10,000 lbs** and more
- **BIC requires photo proof of side guards or a waiver application for each vehicle**
 - Fully digital through BIC Online Portal
 - Data-driven approach to outreach and enforcement
- No BIC license plates issued to noncompliant vehicles
- Law covers 95% of the BIC-regulated fleet
- Current Compliance Rate: **98%**

[per records self-reported to BIC by regulated companies]

Status	# of Vehicles	%
Waiver Approved	3,386	52%
Compliant	3,004	46%
Noncompliant	137	2%





LOOKING TO THE FUTURE

- Commercial Waste Zones Safety Task Force
- Integrate automated camera violation (speeding, red light, etc.) data with BIC vehicle data for analysis:
 - Industry-wide trends
 - Identify problematic companies
 - Inform enforcement and company integrity review
- Continue improving BIC Online Portal digital capabilities for efficient reporting and data analysis
- Continue engaging with industry and other stakeholders as vehicle design evolves



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