PRSC + ISN Transportation Statistics
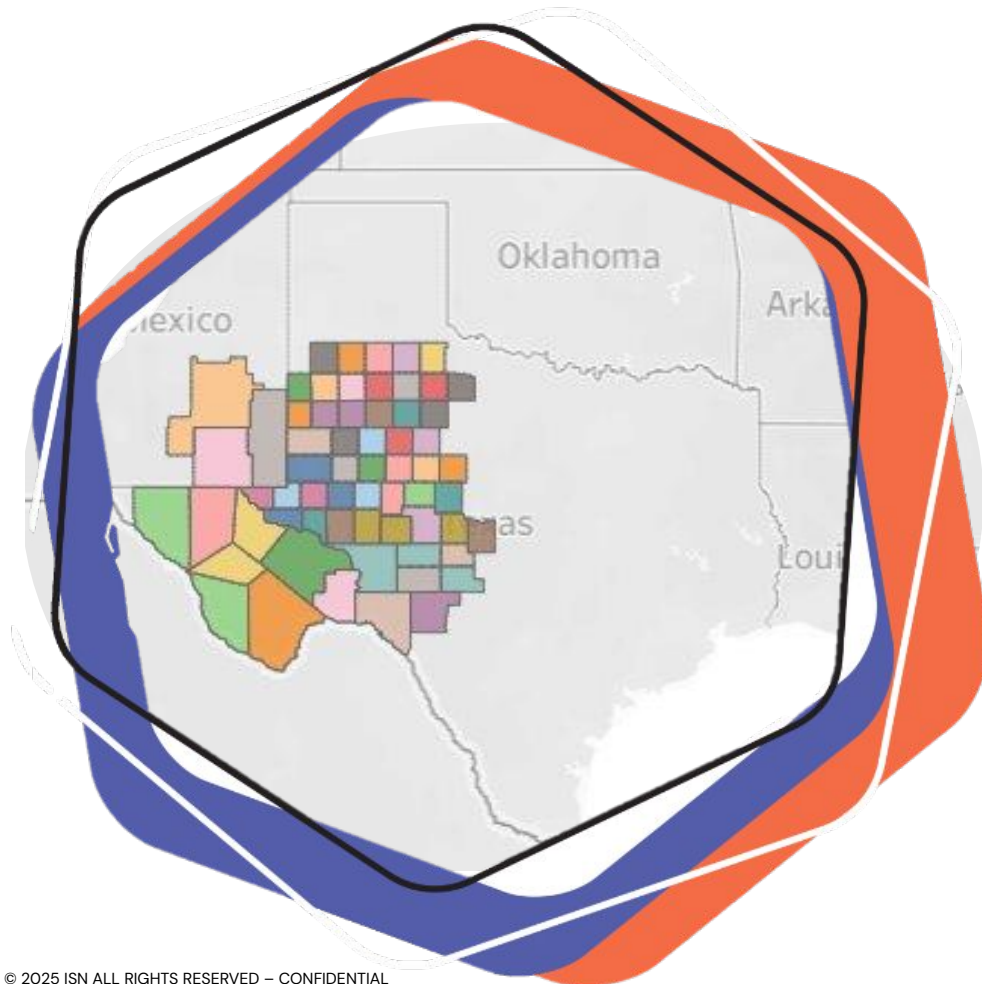
Introduction to ISN

About ISN

850+

Hiring Clients Worldwide

85,000+

Active Contractors/Suppliers

50+

Permian Basin ISN
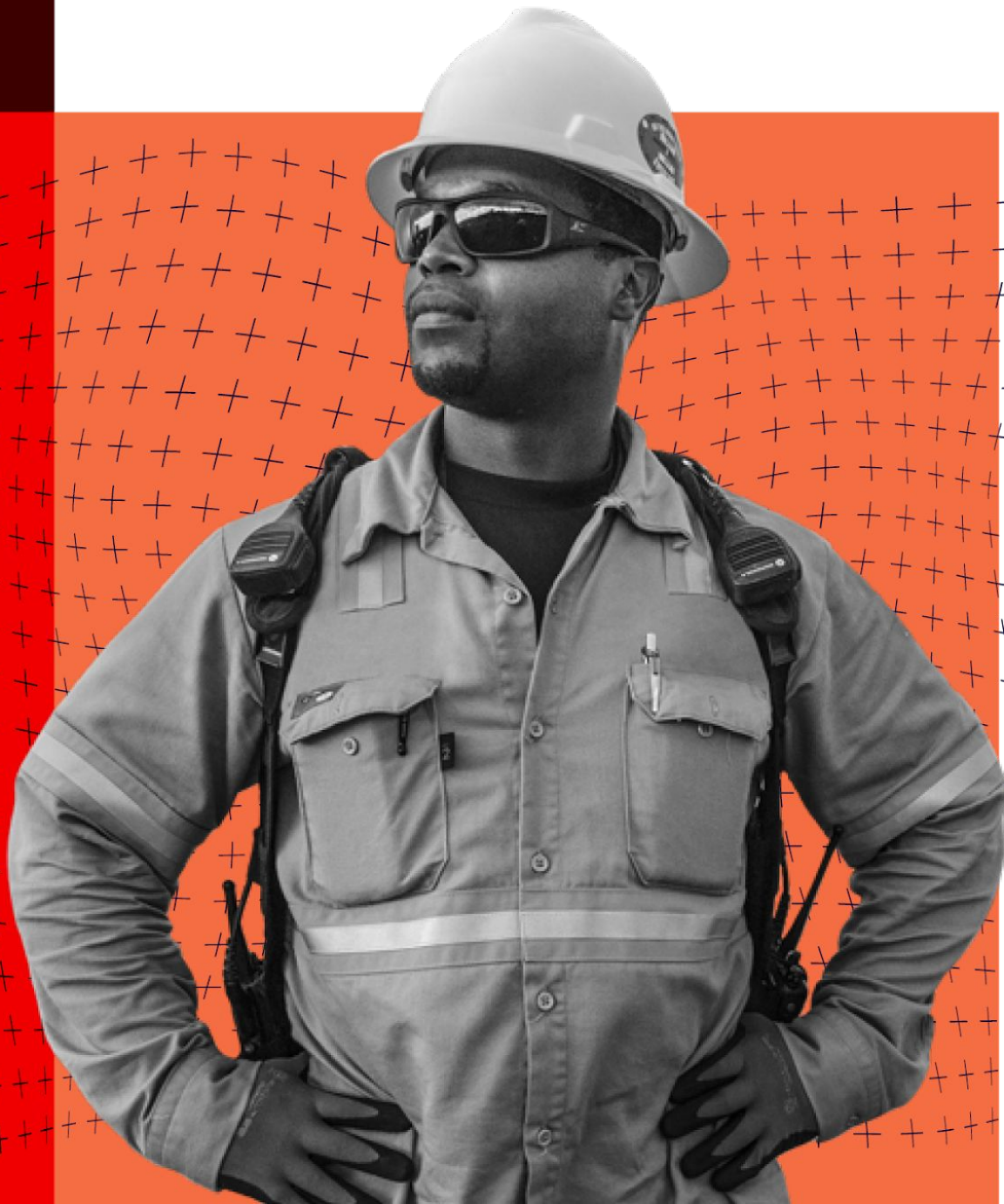Hiring Clients

12,000+

Carrier Companies working
in the Permian Basin

84,000+

Permian Basin Worker
Level Employees using
the Empower App

43M+

Onsite Work Hours Collected
for Permian Basin Hiring
Clients in 2024

Analyzing the Data – SIFs

What is a SIF?

Definition of a SIF: Any work-related fatality, in-patient hospitalization, amputation, or loss of an eye.

ISN OSHA Log Analysis

- ISN extracted incident information from contractors who reported a SIF in the Questionnaire (2017 – 2024)

- Applied analytics and machine learning models to classify these incidents, potentially identifying SIFs and **generating additional insights**

Summary from All ISN Data (2017–2024):
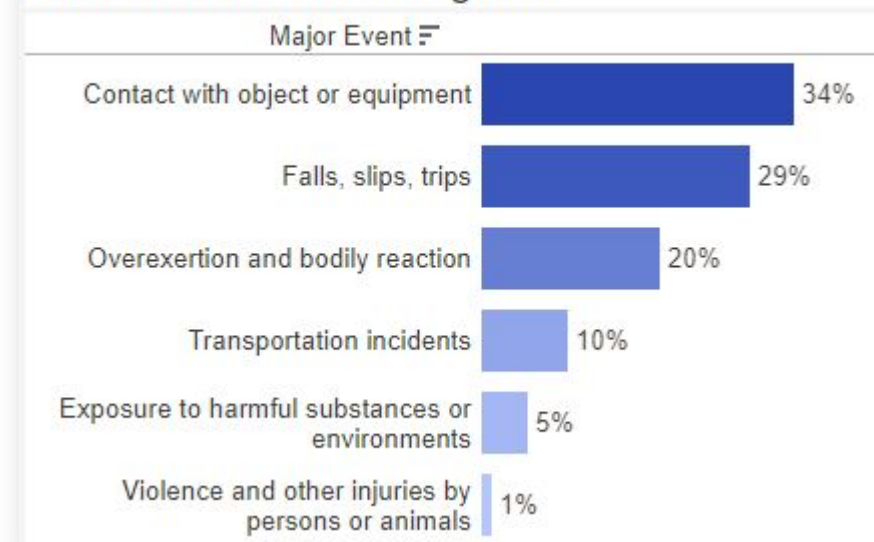
25,000+
SIF Cases Identified

3,000+
Amputations

20,000+
Hospitalizations

950
Fatalities

What are the event categories?

Major Event	
Contact with object or equipment	34%
Falls, slips, trips	29%
Overexertion and bodily reaction	20%
Transportation incidents	10%
Exposure to harmful substances or environments	5%
Violence and other injuries by persons or animals	1%

Transportation-Specific Data (2023)

What are the event categories?

Category	%
Falls, slips, trips	34%
Overexertion and bodily reaction	22%
Contact with object or equipment	21%
Transportation incidents	18%
Fires and explosions	4%
Exposure to harmful substances or environments	2%
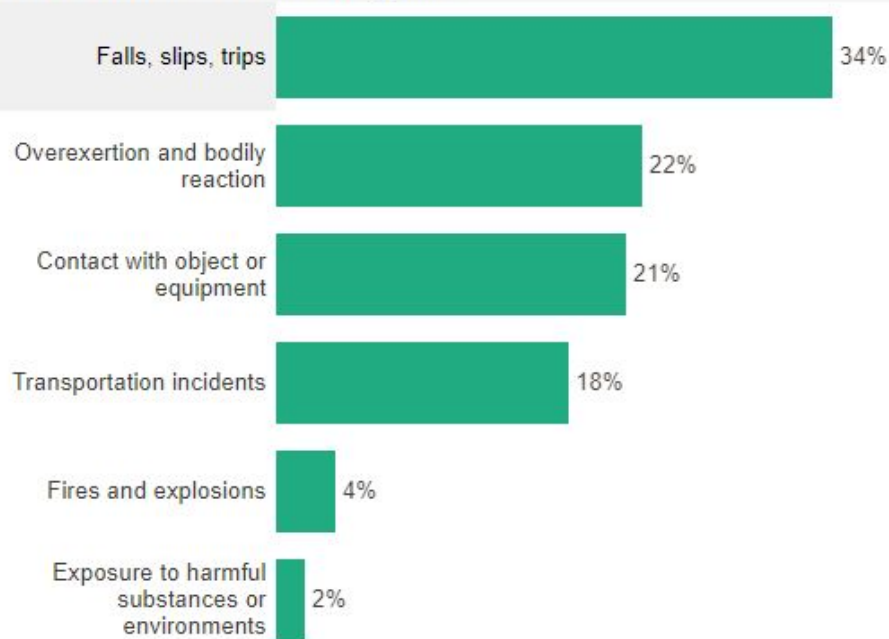
What is the nature of incidents?

Nature	%
Sprains, Strains, Tears	30%
Traumatic injuries and disorders	22%
Fractures, Dislocations	19%
Cuts, Lacerations, Wounds, Bruises	14%
Nonclassifiable	11%
Burns, Electrocutions	3%
Diseases and Disorders	1%
Amputation	1%
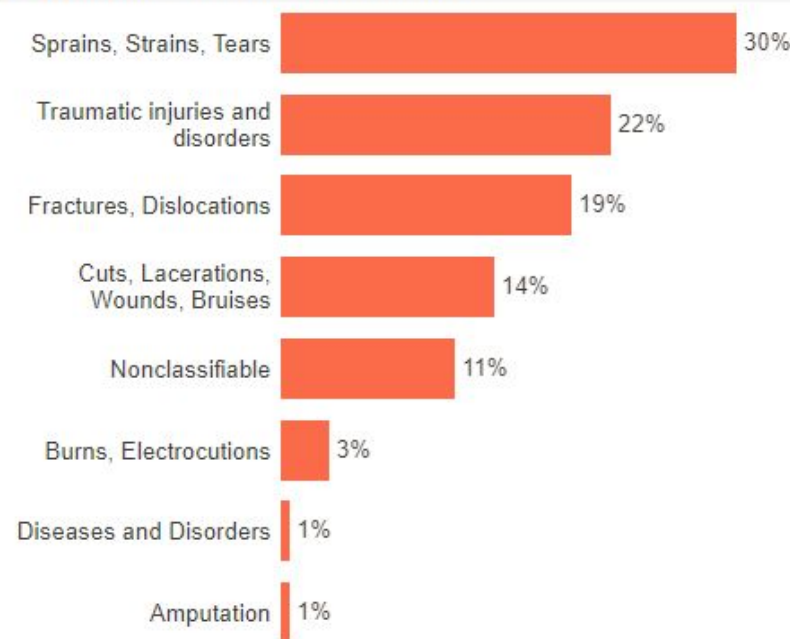
Which body parts are affected?
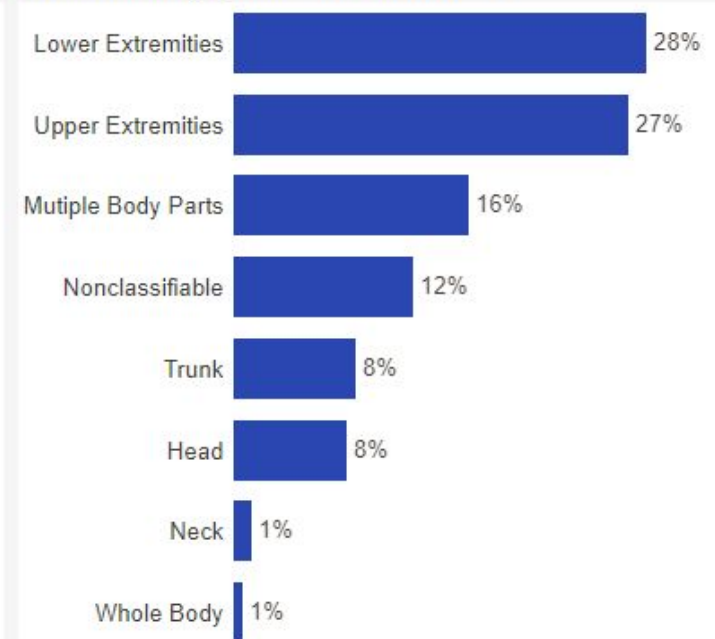
| Body Part	%
Lower Extremities	28%
Upper Extremities	27%
Multiple Body Parts	16%
Nonclassifiable	12%
Trunk	8%
Head	8%
Neck	1%
Whole Body	1%

- Based on primary 2-digit NAICS code
- Other Common causes of SIFs are still prevalent for companies in the Transportation industry
  - Transportation Incidents are #4 on the list of SIF causes for 2023
- Transportation-related words only identified in 11% of 180 SIF cases

Transportation-Specific Data (2023)

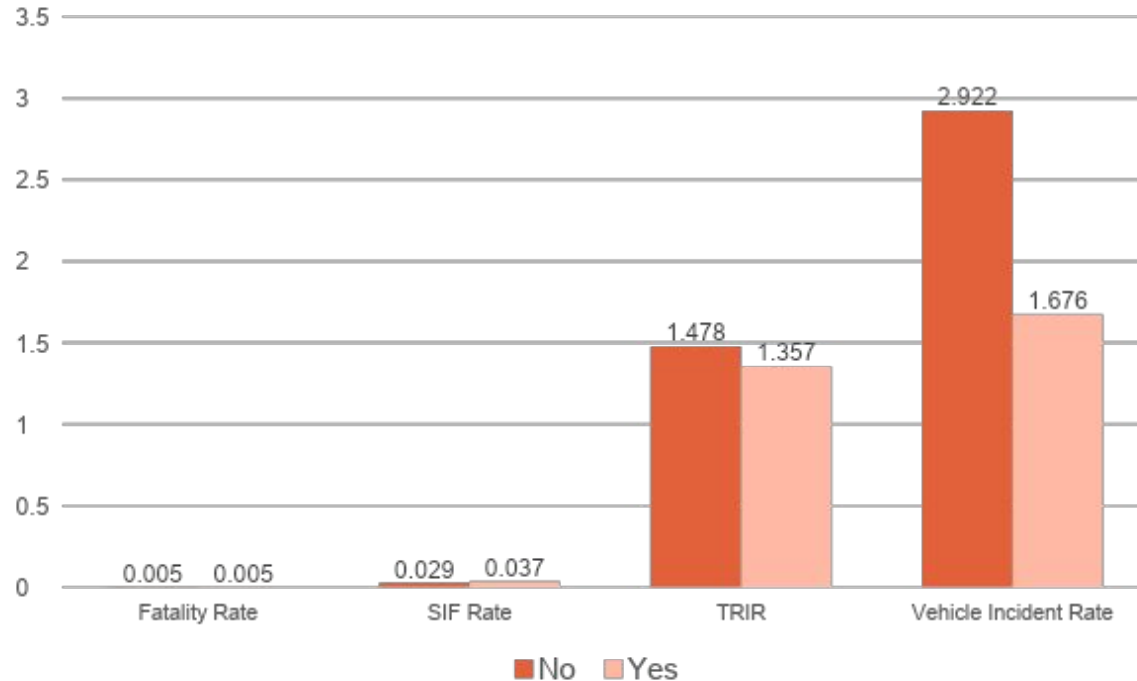### What is the nature of the incidents?
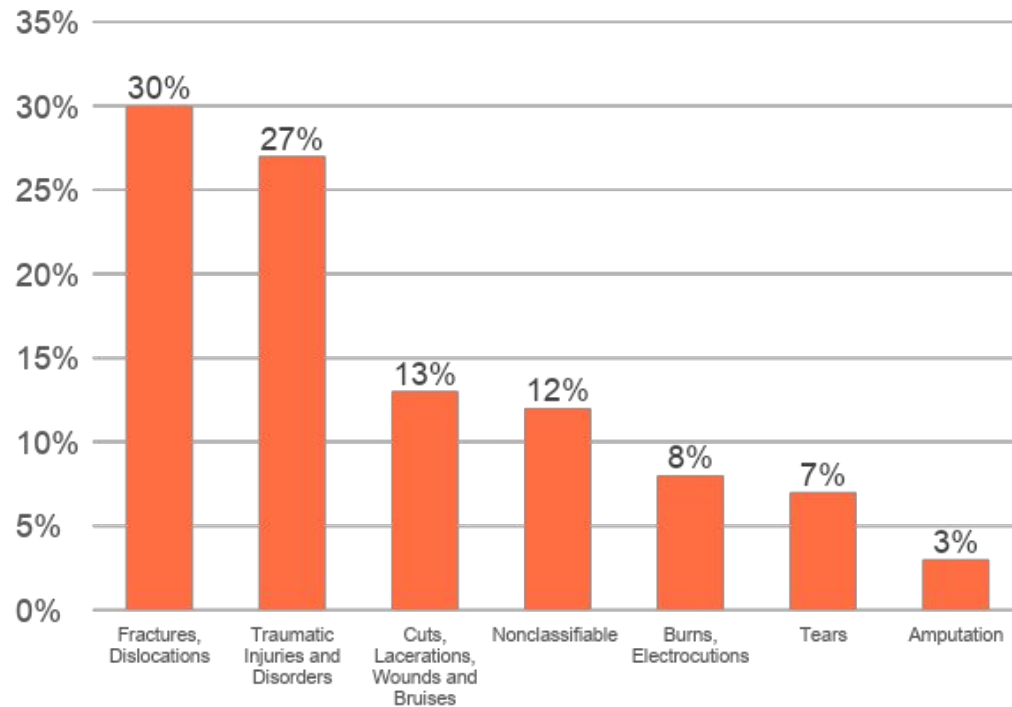
What are the event categories?
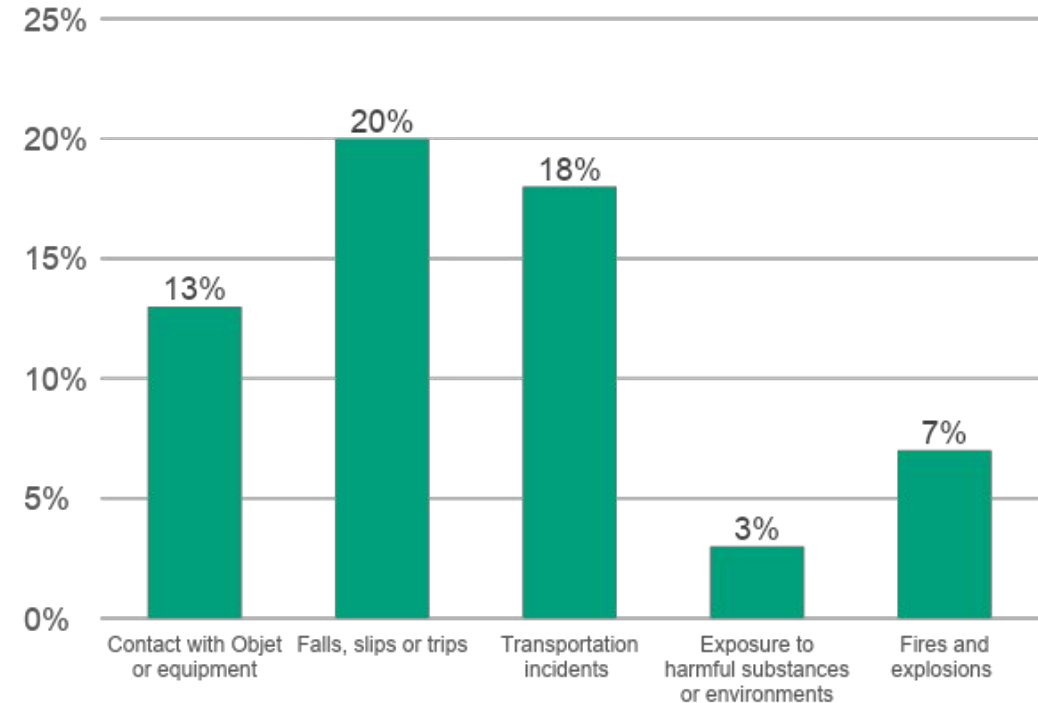
- Based on primary 2-digit NAICS code
- Other Common causes of SIFs are still prevalent for companies in the Transportation industry
 - Transportation Incidents are #4 on the list of SIF causes for 2023

Transportation Safety Statistics Analysis

Transportation Written Program vs Safety Statistics

Legend: ■ No ■ Yes

Values:
- Fatality Rate: 0.005, 0.005
- SIF Rate: 0.029, 0.037
- TRIR: 1.478, 1.357
- Vehicle Incident Rate: 2.922, 1.676

Driving Program Score vs Safety Statistics

Legend: ■ Score <100 ■ Score 100

Values:
- Fatality Rate: 0.005, 0.005
- SIF Rate: 0.032, 0.038
- TRIR: 1.494, 1.325
- Vehical Incident Rate: 2.635, 1.677
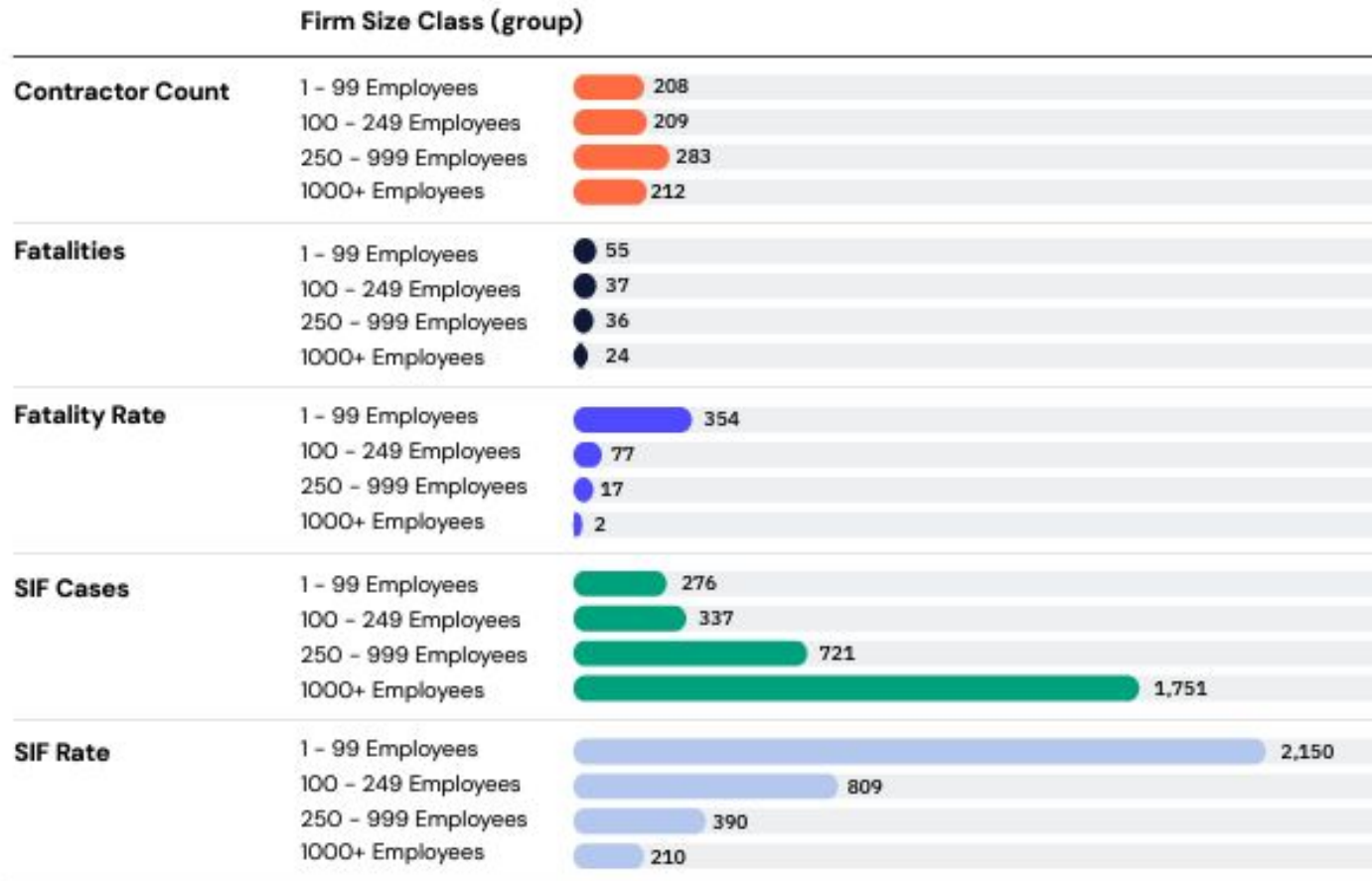
Contractors with Transportation Written programs have a **43% lower** Vehicle Incident Rate than those who do not have programs.
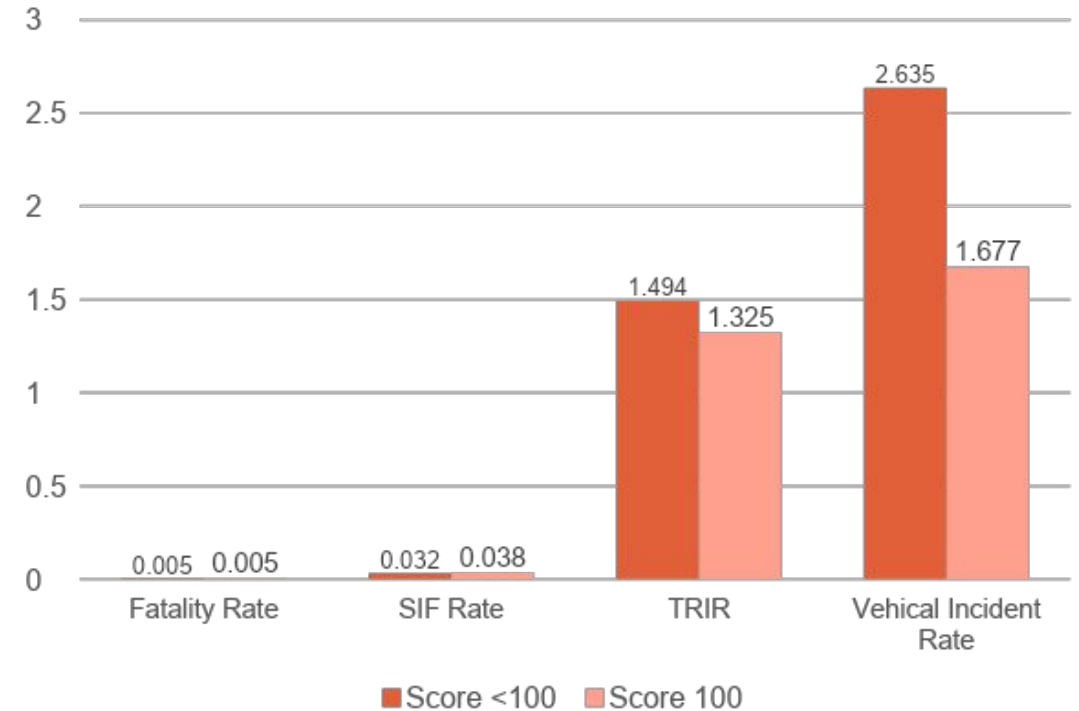
Drivers with a driving score less than 100 have a **41%** higher Vehicle Incident Rate

Key Statistics by Company Size

Firm Size Class (group)

|			
Contractor Count	1 – 99 Employees		208
	100 – 249 Employees		209
	250 – 999 Employees		283
	1000+ Employees		212
Fatalities	1 – 99 Employees		55
	100 – 249 Employees		37
	250 – 999 Employees		36
	1000+ Employees		24
Fatality Rate	1 – 99 Employees		354
	100 – 249 Employees		77
	250 – 999 Employees		17
	1000+ Employees		2
SIF Cases	1 – 99 Employees		276
	100 – 249 Employees		337
	250 – 999 Employees		721
	1000+ Employees		1,751
SIF Rate	1 – 99 Employees		2,150
	100 – 249 Employees		809
	250 – 999 Employees		390
	1000+ Employees		210

- The group with the highest rate of fatalities is not correlated with the largest company size, but rather mid–size companies.

- Much like TRIR, smaller companies see the biggest impact in their overall SIF rate for each SIF event

- Regardless of company size, SIF's have a significant impact on both the affected individual and the organization.

Oil & Gas Industry Breakdown: Three-Year Lookback
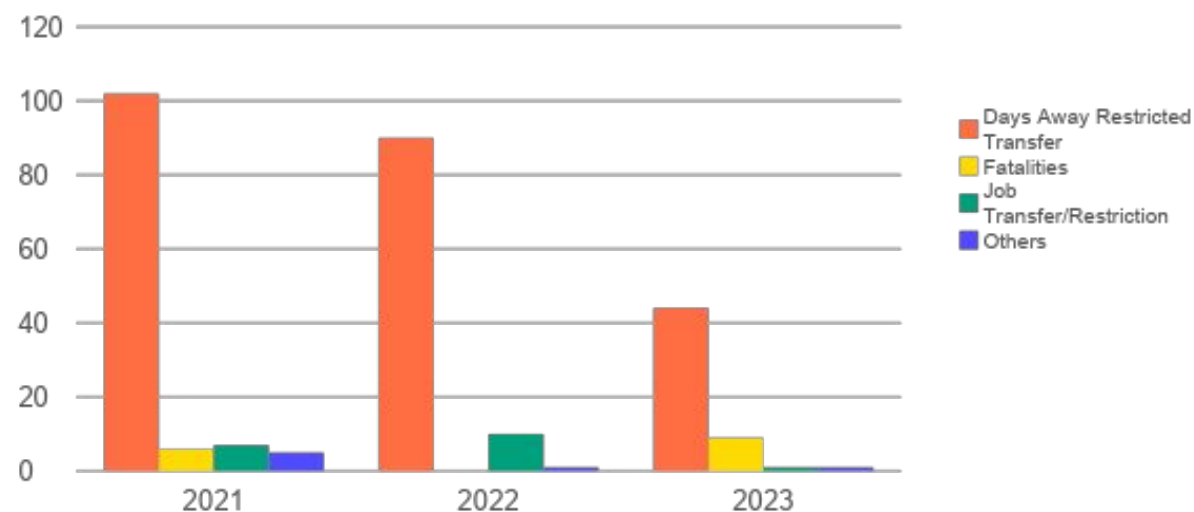
2021 – 2023 Data

- Drivers reported the most incidents all three years
  - Laborer and mechanic were second and third most reported job titled

- Highest number of incidents occurred on Wednesdays and Thursdays

- February and November were the months with the highest number of incidents

Incident Types
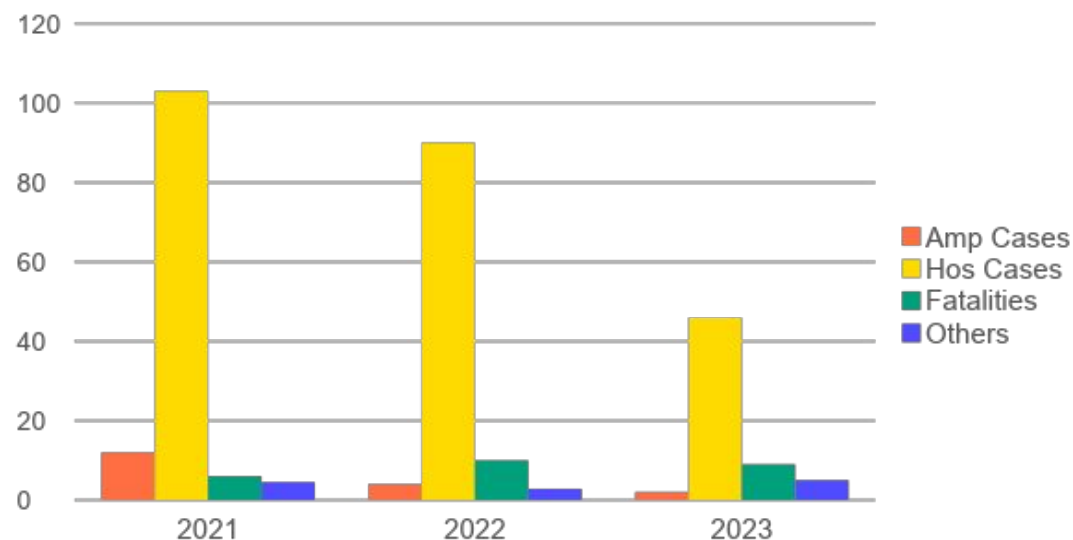
Case Classifications

FMCSA Data Feed to ISNetworld

The FMCSA provides carrier information through four data exports:

Census
28 Data Points

Crash
21 Data Points

Inspection
39 Data Points

Violation
13 Data Points

- Directly linked to the FMCSA Website

- Data is refreshed each month

- Unique identifier is DOT Number

- API between ISN and FMSCA for Authority Status

- FMCSA Data is used to calculate CSA – BASIC* scores and statuses

* FMCSA collects data in their safety management system and organizes it into seven Behavior Analysis and Safety Improvement Categories (BASIC)

Additional FMCSA Data

🕐 Hours of Service

🔧 Vehicle Maintenance

🍾 Controlled Substances and Alcohol

☣️ Hazardous Materials Compliance

💳 Driver Fitness

FMCSA Transportation Data

Knox Construction Inc.
Company ID: 400-128708
FMCSA Website

DOT Number: 999999999

View: Authority Status   Census   Crash   Inspection   Violation   **Graded Calculations**

Data current as of 07/04/2022 1:02 AM 💬

Number	Calculation	Calculated Result	Score
1	Hours-of-Service Compliance BASIC Status	Data Not Available	5/5
2	Vehicle Maintenance BASIC Status	27	5/5
3	Controlled Substances and Alcohol BASIC Status	Data Not Available	Not Graded
4	Hazardous Materials Compliance BASIC Status	Data Not Available	Not Graded
5	Driver Fitness BASIC Status	2.33	5/5
6	Out of Service % Vehicle	50	0/5
7	Out of Service % Driver	25	0/5

National Averages 💬

Type	National Average %
Out of Service % Vehicle	20.70%
Out of Service % Driver	5.50%
Out of Service % Hazmat	4.50%

Tracking Additional Carrier Data

No.	Component	United States
1	Incident, Crash, Violations & Inspection Statistics	• *FMCSA*
2	Canadian Carrier Profiles (data similar to FMCSA)	N/A
3	Carrier Specific Written Programs	•
4	Questionnaire (HSE, Sustainability, D&A and Carrier/Driving)	•
5	Carrier Insurance	•
6	Workers' Compensation Information	N/A
7	Financial / Commercial Information	•
8	Licenses & Permits – General Document or License Tools	•
9	Individual Driver Information	•
10	Individual Driver D&A Status (Third Party)	•
11	Driver Trainings & LMS Courses	•
12	Analytics & Dashboards	•
13	DOT & NSC Number Verification	•

(Left vertical label: Functionality)

• = Collected & Verified   • = Collected   • = Researching / Potential Opportunity

Example Written HSE Programs
- Journey Management
- Commercial Vehicle Operation
- Vehicle / Driving Safety

Insurance Limits by Work Type
- Truck Haulers
- Cargo Insurance
- Logging Contractors

Other Licenses & Permits
- Water Hauling
- Hazardous Waste

Example LMS Courses
- HazMat Transportation Awareness
- Defensive Driving
- Distracted Driving
- Transportation of Dangerous Goods

Hiring Client Spotlight: Plains

A critical part of Plains' operations is its partnership with, and safety of its carriers. As of July 2021, Plains increased its visibility and requirements by tracking carrier data through ISNetworld.

Plains prioritizes verified data points from the FMCSA including carrier Census, Crash, Inspection and Violation data (similar to the Canadian Carrier Profile). The components are used to calculate a score which helps Plains prioritize working relationships with safer carriers.

In addition to the data points available in ISNetworld from the FMCSA, Plains factors the below requirements into its carrier management process to mitigate risk:

Carrier-Specific Written Programs

Carrier-Specific Insurance

Driver Trainings & LMS Courses

Individual Driver Information

"For safety and compliance, we rely on ISN to monitor our contract carriers. Including the FMCSA statistics in the ISNetworld scorecard eliminates the need for managers to research outside of ISNetworld when vetting new carriers or investigating our current active carriers. Adding this component to the information available through the ISN dashboard provides us more visibility into the carriers' safety performance."

Dave Danielson, **Managing Director of Trucking Operations – Plains**

How ISN Can Assist

What do top quartile clients in the industry do?

RAVS 360™

12%

ISN contractors who have completed a RAVS 360 Implementation Assessment have a **12% lower** incident rate

Permit to Work

11%

ISN contractors who use Permit to Work have an **11% lower** incident rate

CultureSight for Contractors

13%

ISN contractors who completed CultureSight for Contractors in their organization have a **13% lower** incident rate
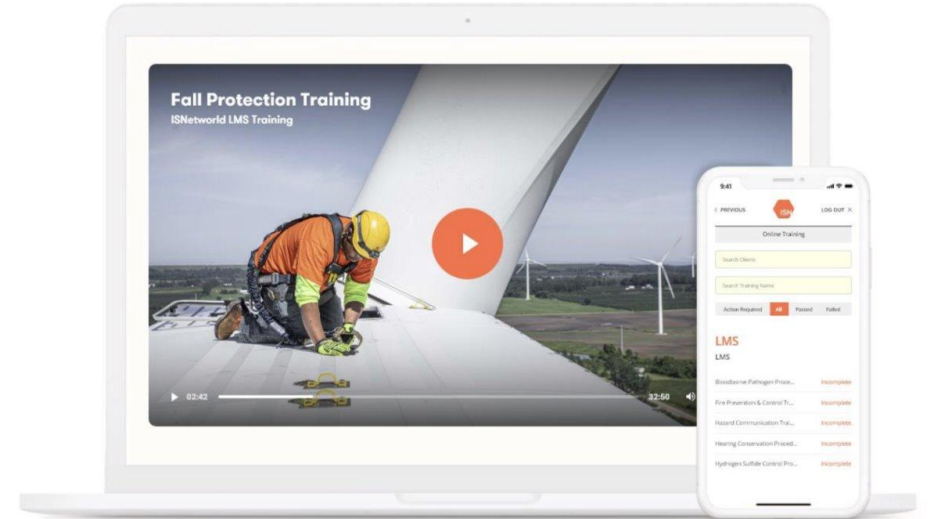
Learning Management System (LMS)

21%

ISN contractors who use LMS have a **21% lower** incident rate

Learning Management System

ISN's LMS Platform provides complementary high quality, computer-based training material to our Contractor customers, in order to satisfy training needs and Hiring client requirements

150+ Training Options Including:

- **Driving Safety***
- **Defensive Driving***
- **Distracted Driving***
- **Extreme Driving Conditions***
- **Safe Driving at Work ***
- Confined Space Entry
- Cybersecurity Awareness
- Defensive Driving

- Electrical Safety
- Emergency Action Planning
- Fall Protection
- First Aid
- Hand & Power Tool Safety
- Hazard Communication
- Aerial & Scissor Lifts
- Basic Rigging
- Bloodborne Pathogens

*Transportation Specific

Want to Learn More?

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Scan to learn more