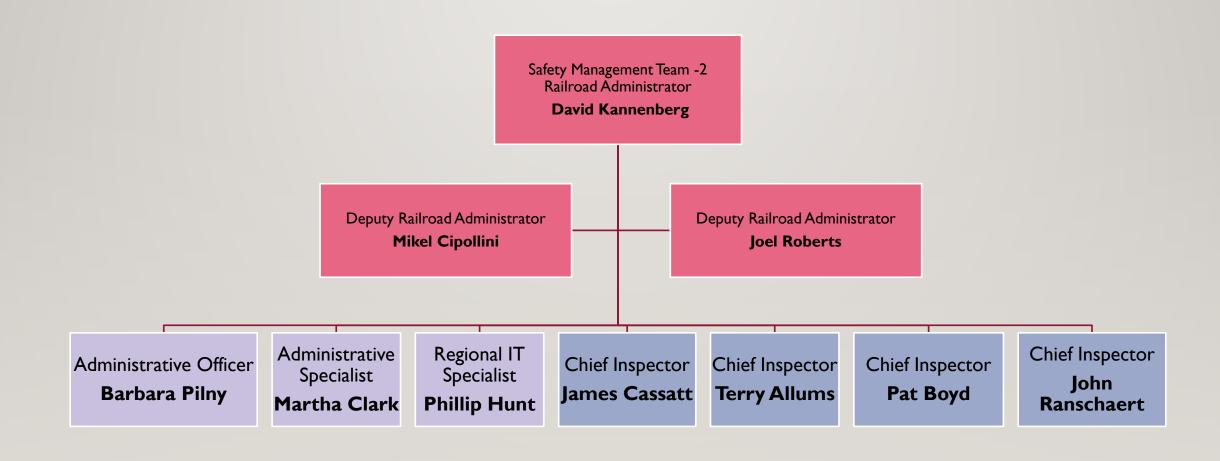


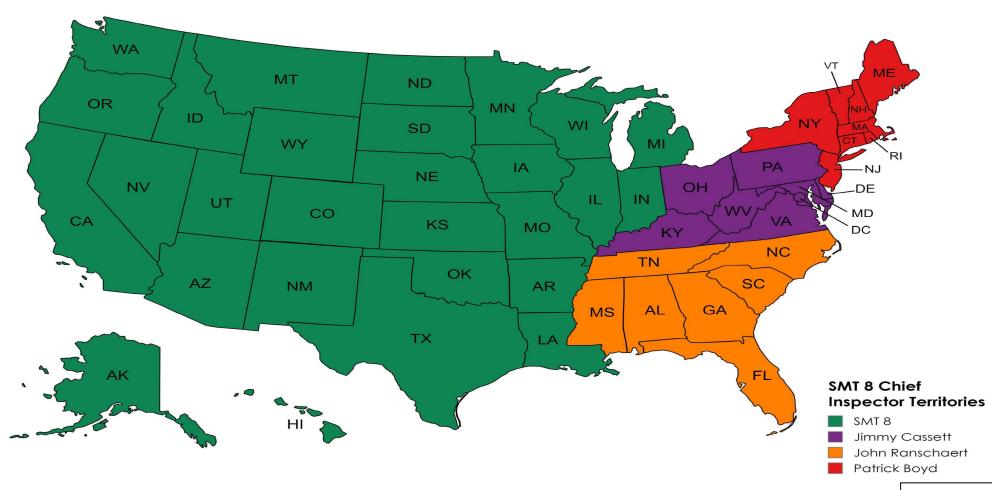
Federal Railroad Administration Safety Management Team 2 Short Line Railroads East



SMT 2 Short Lines East



SMT 2 Map with Chief Territories and Holding Companies

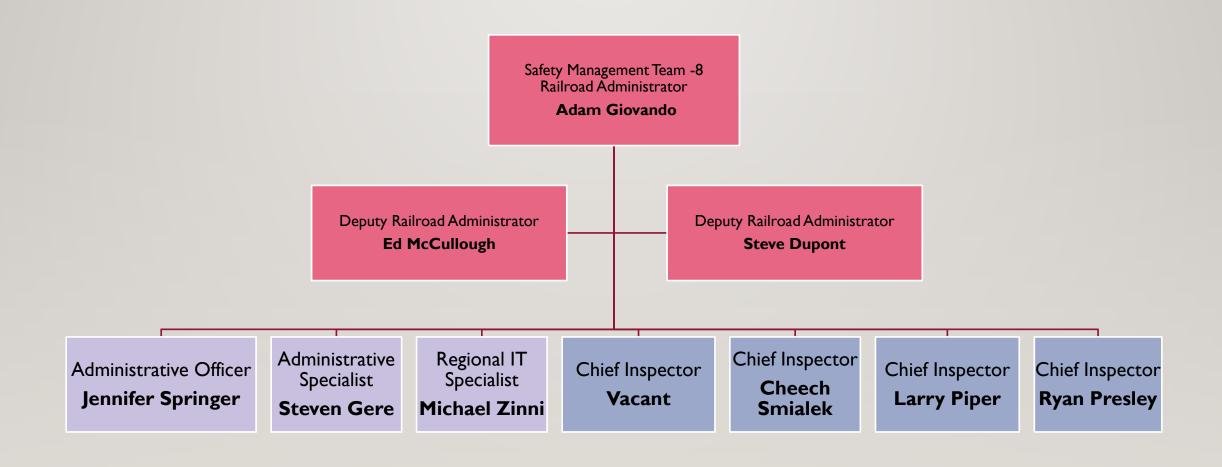


ated with mapchart.net

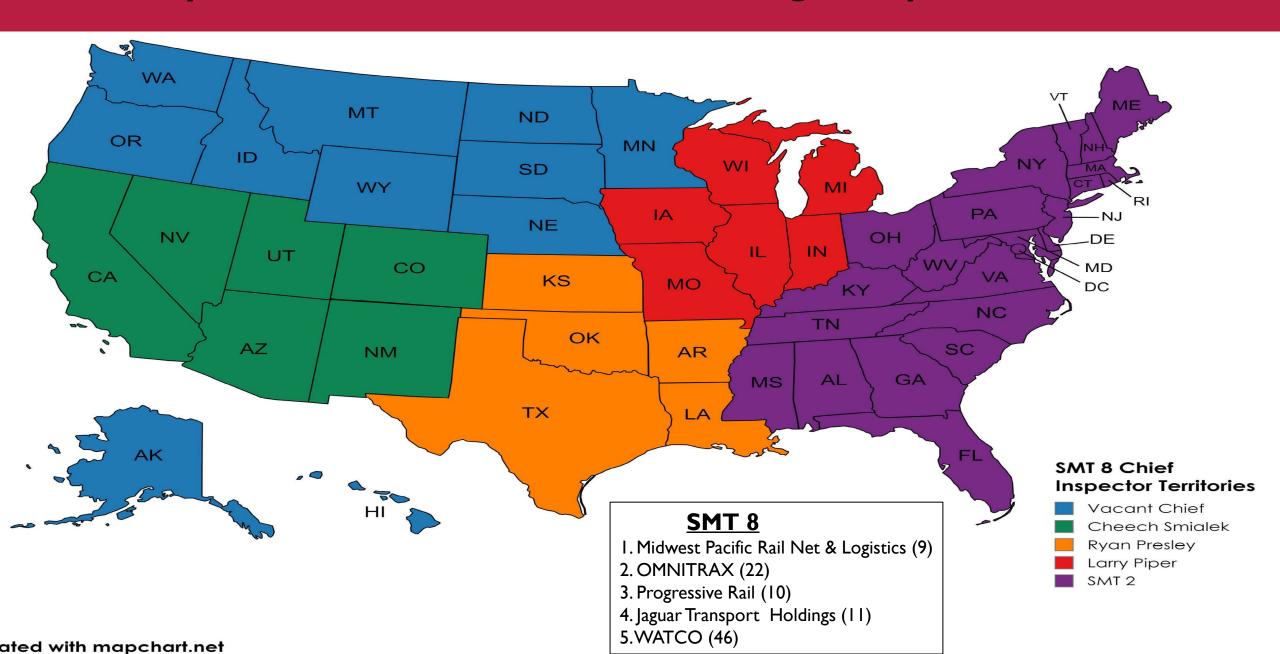
SMT 2 Holding Companies

- 1. Patriot Rail (32)
- 2. Genesee & Wyoming (109)
- 3. R J Corman (19)

SMT 8 Short Lines West



SMT 8 Map with ChiefTerritories and Holding Companies



Mission

Goals &

Objectives

- Conduct 209 Determinations
 - Determine if RR warrants FRA oversight
- Conduct Part 225 Audits
 - Ensure regulatory compliance
 - Promote RR safety
- Conduct Part 219 Audits
 - Ensure regulatory compliance
 - Promote drug & alcohol-free workplace
- Railbikes on Short Line Railroads
 - Emerging tourist industry
 - Ensure safe operations

Mission

Goals &

Objectives

- Conduct Analysis of Short Line RR Safety Data
 - Industry-wide accident, fatality & injury trends and FRA inspection results
 - Conduct Risk Reduction Program RISK mitigation validation

- Promote Rail Safety with Labor Organizations
 - Hold periodic meetings to identify safety concerns

- Promote Rail Safety with RRs & Associations
 - Meet with RRs to validate safety concerns

Mission

Goals &

Objectives

- Review FRA FORM 6180.54 Reports
 - Verify validity & accuracy
- Investigate Blocked Crossings
 - Verify validity, accuracy & frequency
- Investigate Rail Safety Complaints
 - Verify validity & accuracy
 - Identify rail safety concerns
- Participate in C3RS Peer Review Teams
 - Support Rail Safety Partnership Division

Short Line RRs Accident, Injury & Inspections Analysis 2023

Analysis of Short Line Railroads:

- FRA FORM 6180.54 (reportable accidents)
 - Top Causes
- FRA FORM 6180.55A (EOD reportable injuries)
 - Top Causes
- FRA FORM 6180.96 (FRA inspection results)
 - Top Five Defects Observed by Craft
- FRA FORM 6180.57 (Grade Xing accidents)
 - Total # of GX accidents on SL RRs

Short Line RRs Reportable Accidents

2023

Breakdown of FRA 6180.54 Reports:

Non-highway accidents = 264

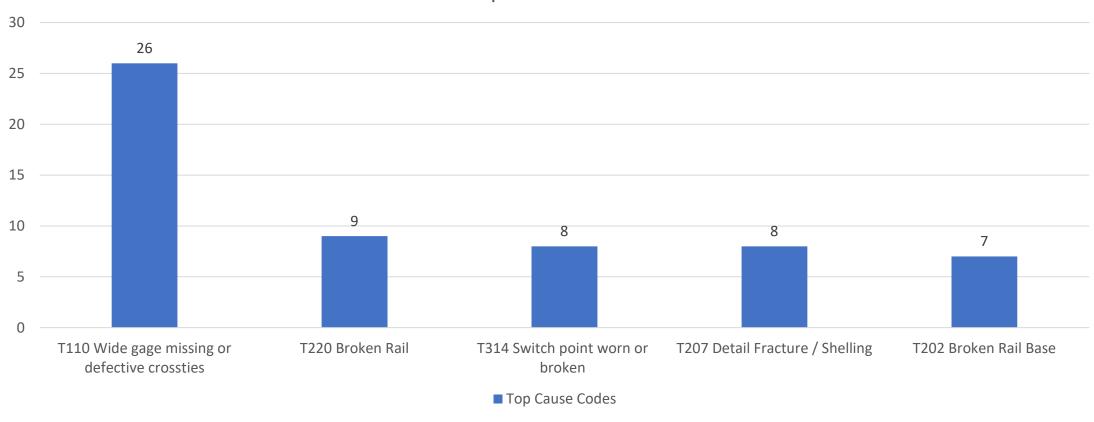
Locomotives derailed = 52

• Freight cars derailed = 1,033

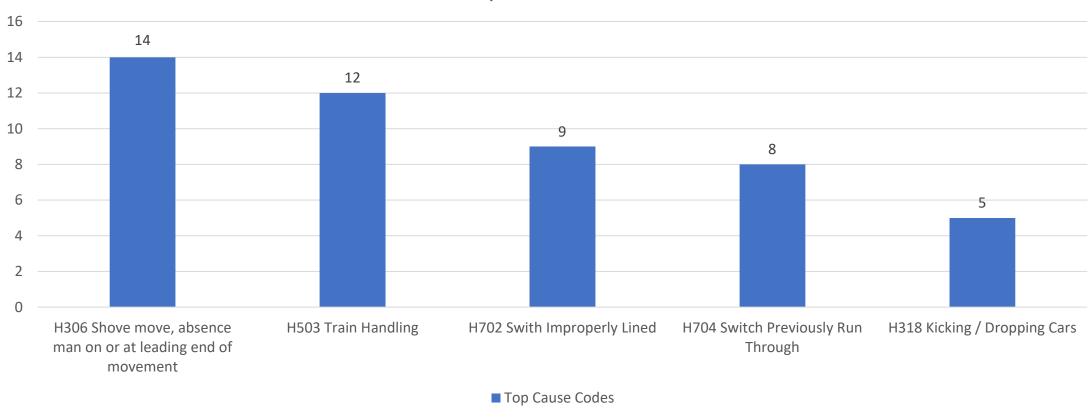
• Damages = \$36,764,312.00

• Train accident rate per 1,000,000 miles = 8.99

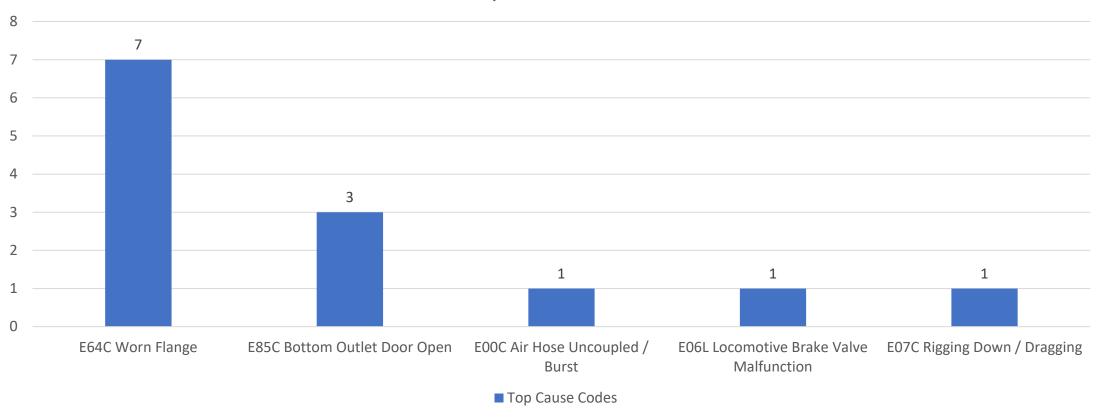
Reportable Accidents Track Causes



Reportable Accidents Human Factor Causes



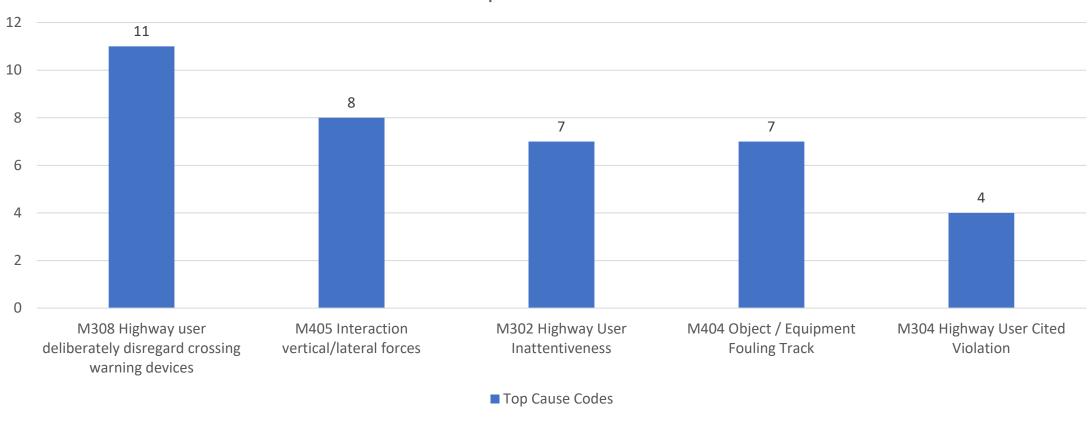
Reportable Accidents Mechanical Causes



Reportable Accidents Signal & Train Control Causes



Reportable Accidents Miscellaneous Causes



Short Line RRs Reportable EOD Injuries

2023

Breakdown of FRA 6180.55a Reports

Employee on duty fatalities = 0

• Employee on duty injuries = 387

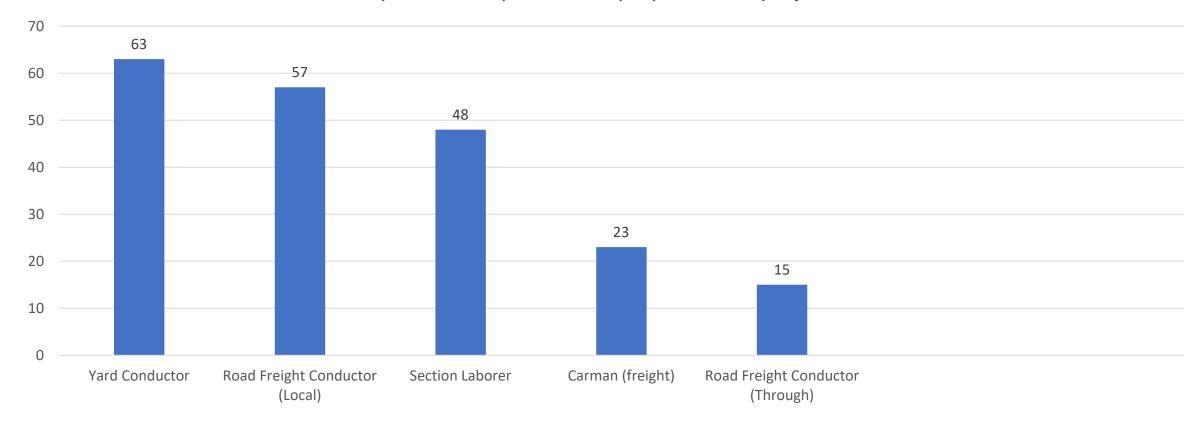
Serious injury = 36*

• EOD injury rate per 200,000 manhours = 2.29%

*Serious Injury = Broken Bones, Amputation, Loss of Eyesight (FRA Accident Reporting Guide)

Reportable Injuries By Job Positions

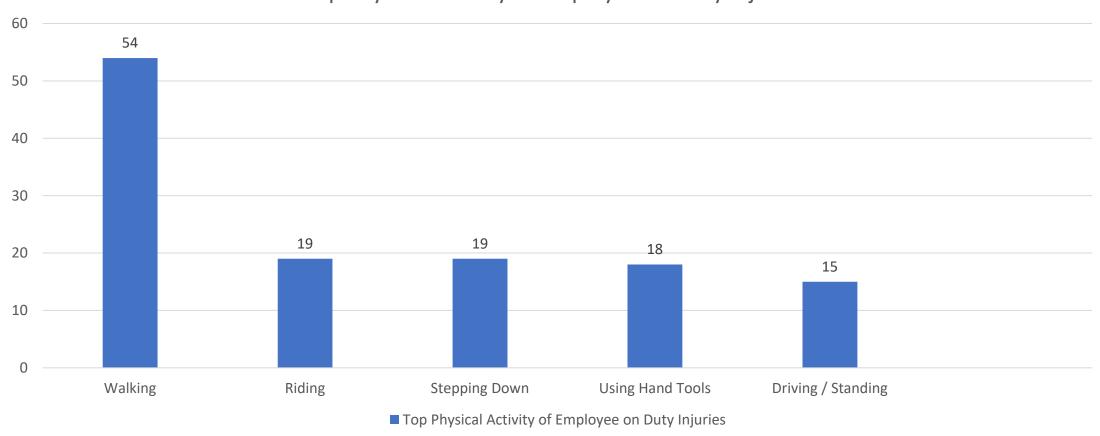
Top Job Description of Employee on Duty Injuries



■ Top Job Description of Employee on Duty Injuries

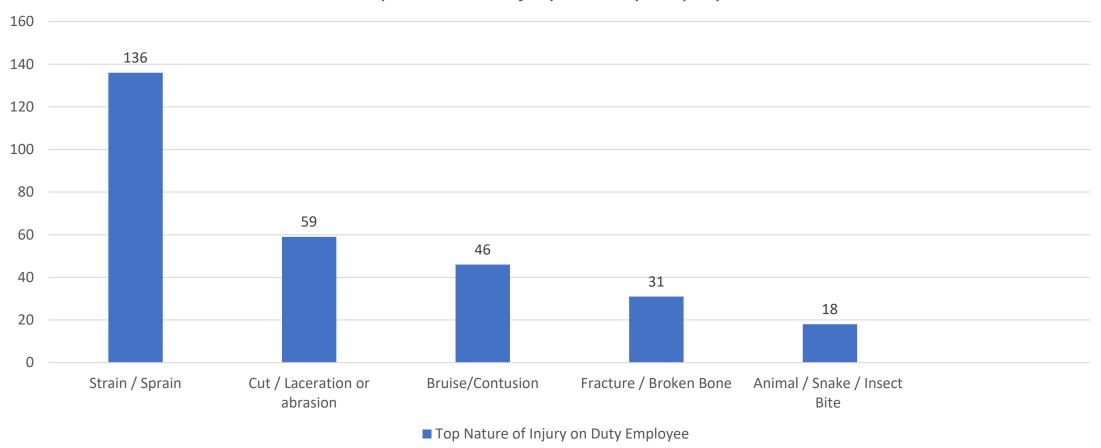
Reportable Injuries By Activities

Top Physical Activity of Employee on Duty Injuries



Reportable Injuries By Nature of Injuries

Top Nature of Injury on Duty Employee



FRA 6180.96 Inspection Reports:

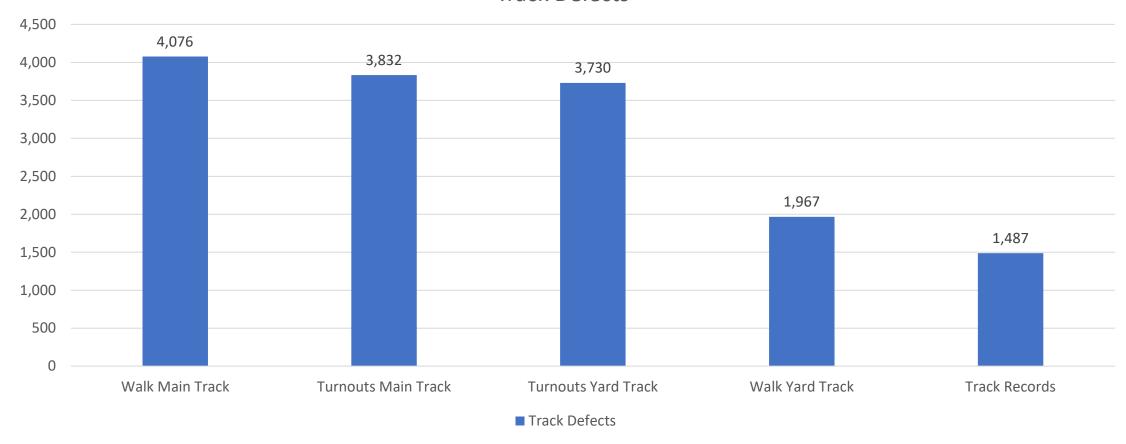
Short Line RRs FRA Inspection Results

2023

<u>Crafts</u>	<u>Inspections</u>	<u>Defects</u>	Comp Ratio
<u>Track</u>	92,968	19,470	20.94 %
MP&E	402,367	19,428	4.83 %
Signal & T/C	60,073	2,899	4.83 %
Grade Xing	30,367	1,361	4.48 %
Oper Prac	67,106	2,541	3.79 %
Haz Mat	100,878	2,574	2.55 %

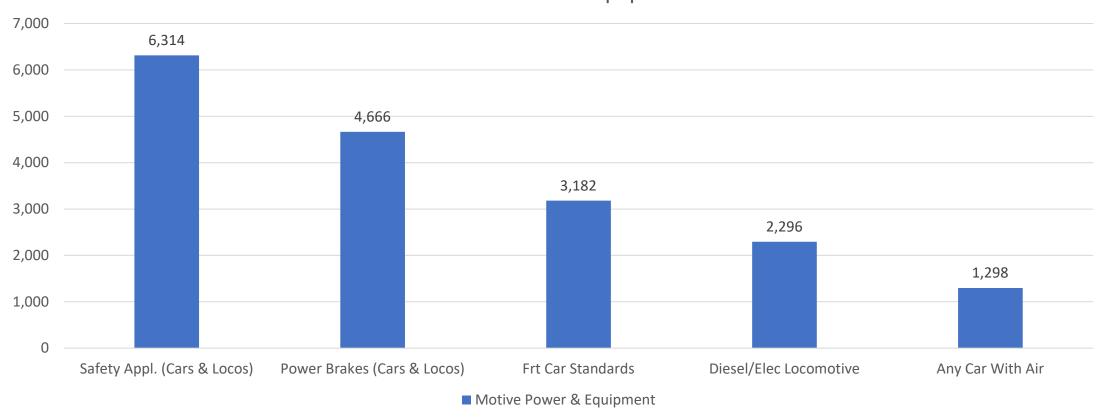
Track Inspection Reports Top Five Defects

Track Defects



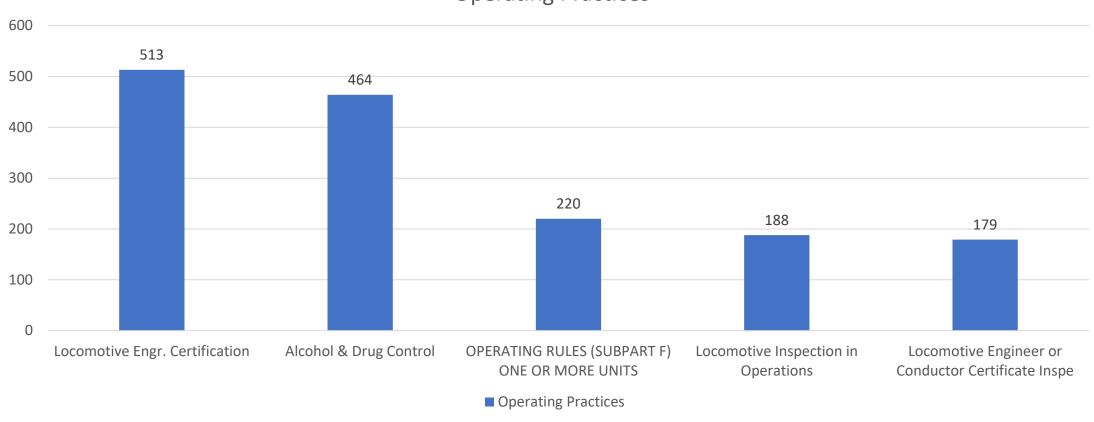
Motive Power & Equipment Inspection Reports Top Five Defects

Motive Power & Equipment



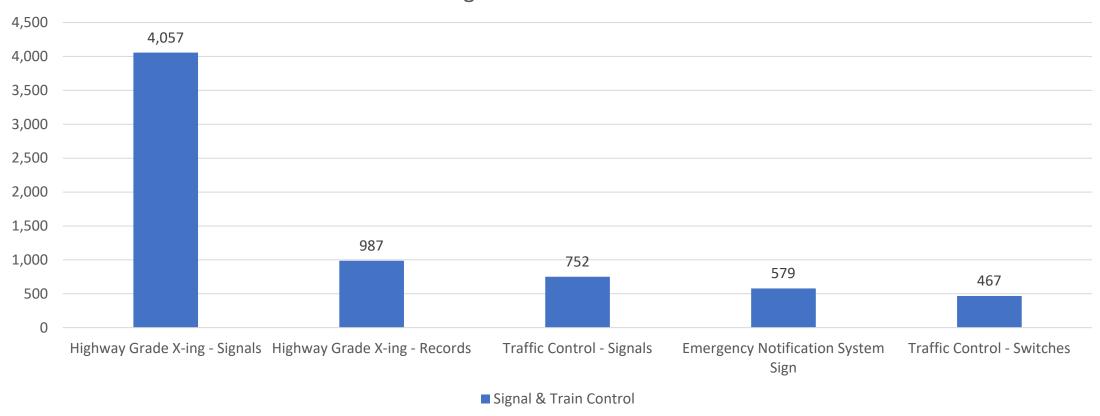
Operating Practices Inspection Reports Top Five Defects

Operating Practices



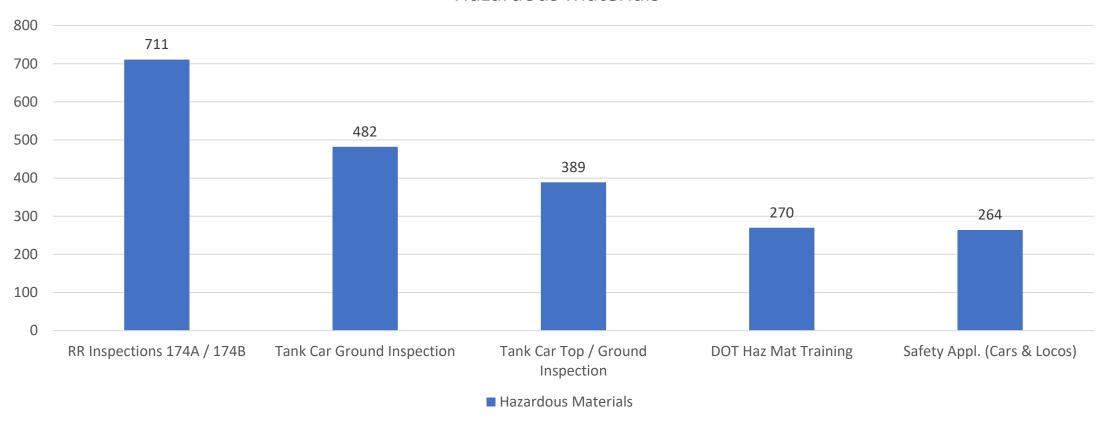
Signal & Train Control Inspection Reports Top Five Defects

Signal & Train Control



Hazardous Materials Inspection Reports Top Five Defects

Hazardous Materials



Grade Crossing Inspection Reports Top Five Defects

Grade Crossing Safety



Short Line RRs 5 – Year Trends

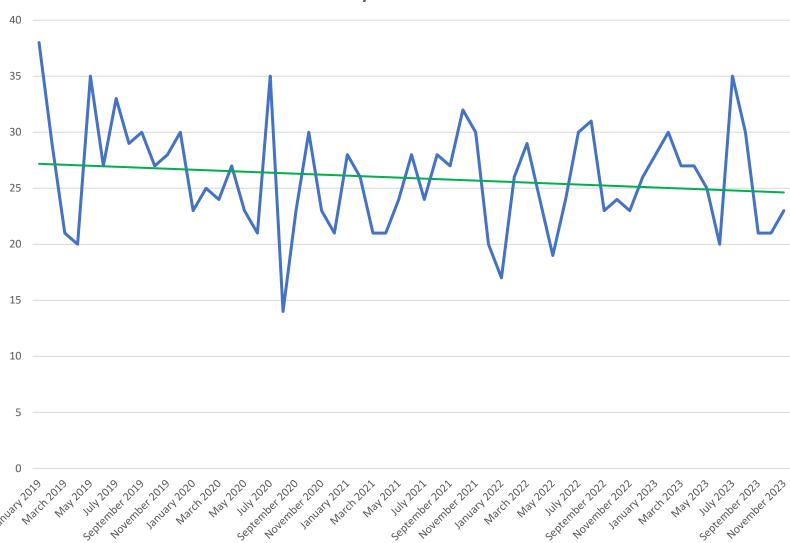
Analysis of Short Line Railroads:

- FRA FORM 6180.54 (reportable accidents)
- FRA FORM 6180.55A (EOD reportable injuries)
- FRA FORM 6180.57 (Grade Xing accidents)
- FRA FORM 6180.96 (FRA inspection defects)

Short Line RRs Reportable Accidents 5 - Year Trend

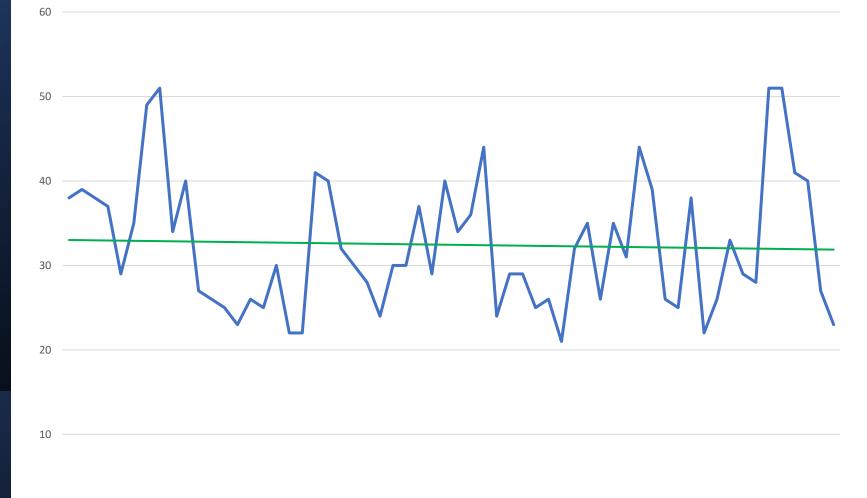
2019 - 2023

Non-Hwy Train Accidents



Short Line RRs Reportable EOD Injuries 5 - Year Trend

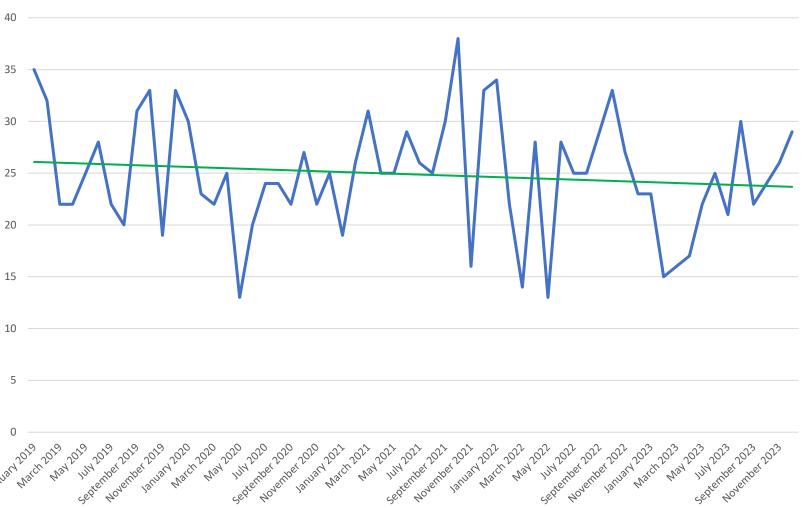
2019 - 2023



Short Line RRs Grade Crossing Accidents 5 - Year Trend

2019 - 2023

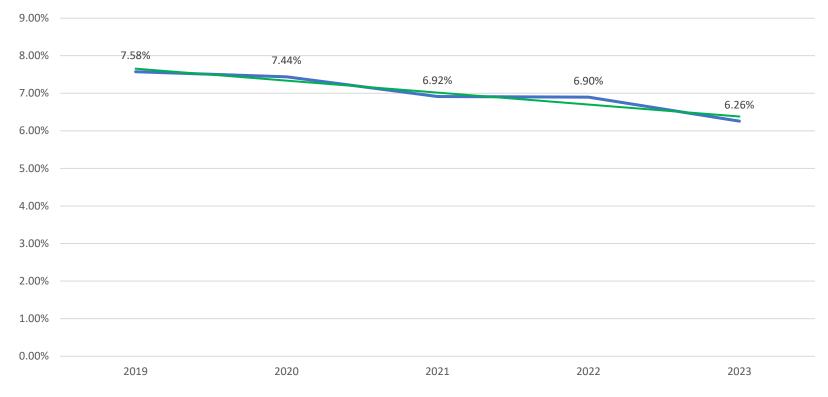




Short Line RRs FRA Inspection Defect Ratio 5 - Year Trend

2019 - 2023

FRA Defect Ratio - Defects / Units (and Subunits)



Success Stories

- Compiled National Short Line RR Inventory
 - 880 Short Line RRs (March 2024)
 - 739 Freight & Freight / Tourist
 - 113 Tourist / Excursion Only
 - 28 Commuter Only
- Partnership with ASLRRA & Short Line Safety Institute
 - Parts 214/219/225/232 and HOS training
 - On-line webinars and on-site instruction
 - Locomotive simulators
- C3RS Program Support
 - Contributing to Peer Review Teams (PRTs)
 - Assist with causal factor determinations
 - Assist with corrective action plans

Future Challenges

Conducting Nationwide Part 225 Audits

- 880 Short Line RRs via 5 year cycle
- Consistent training, policies & guidance
- Goal = Establish & maintain compliance

Implementing Risk Reduction Program (RRP)

- Quantitative Analysis vs Qualitative Assessments
- On-site Risk Reduction Plan verifications
- Goal = Continual rail safety improvement

Emerging Railbike Operations

- Identify railbike operations nationally
- Partnering with RRs to ID best practices
 - Establish safe operating procedures
 - Goal = Ensure safe operations

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Thank You!