



Rail Safety

The Federal Railroad Administration's mission is to enable the safe, reliable, and efficient movement of people and goods for a strong America, now and in the future.

Railroads are Moving More People and Carrying More Goods Today Than in a Generation

- Amtrak ridership is up almost 50% since 2000
- Freight rail traffic is near an all-time high
- Rail must grow to balance the Nation's transportation options

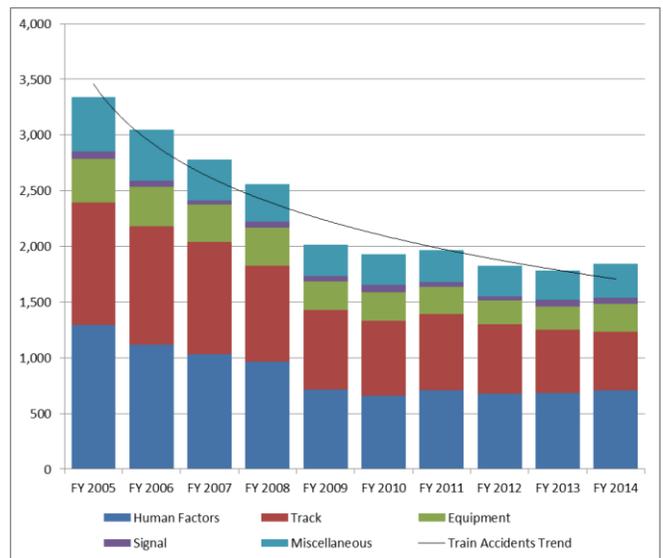
Rail has Never Been Safer

- FRA is a data-driven agency. Every regulation and enforcement action we issue is based on facts and sound research using advanced statistical methods and modeling. We closely monitor data and trends to eliminate risk.
- Two straight years of record-breaking safety performance, along with significant reduction in all types of accidents since FY 2005, proves that FRA's approach to oversight and enforcement is effective.
- Human Factor Caused Accidents – **down 45%**
- Track Defects – **down 52%**
- Equipment Defects - **down 36%**

Ten-Year Trend for Accident Reductions

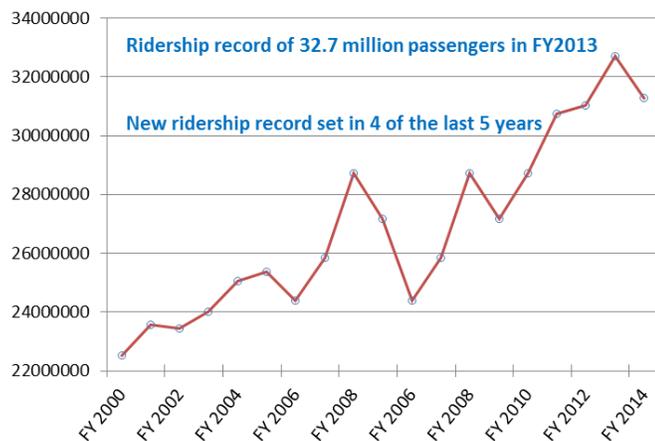
*Fiscal Year representing Absolute Numbers

Source: FRA



Amtrak Ridership Growth

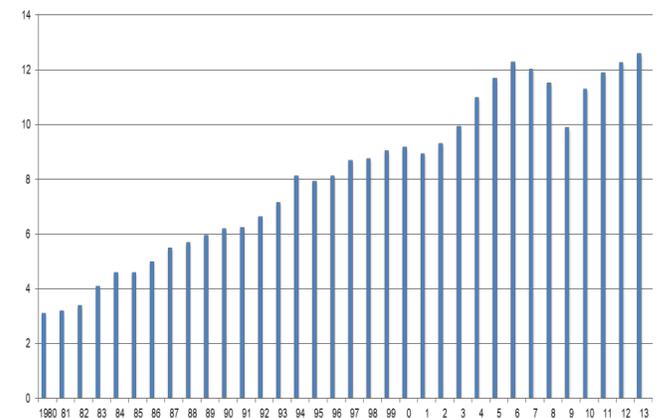
Source: FRA Safety Data



Intermodal Growth

TOFT/COFC Class 1 Railroad Loadings in Millions of Units

Source: Association of American Railroads (AAR) "Railroad Facts" (2013 Preliminary from "Weekly Railroad Traffic, 2013 Annual Summary")



Actively Addressing Challenges

Accidents related to human error and track defects account for 2/3 of all train accidents, while trespassing and highway-rail grade crossing incidents account for 94 % of all rail-related fatalities.

Ensuring Continuous Safety Improvement

While rail safety is near an all-time best, we owe it to the public and rail workers to do better. Continuous safety improvement requires a comprehensive strategy designed to eliminate risks on railroads. We accomplish this by merging proven safety approaches – like our rail safety inspections and oversight programs – with performance-based measures that improve safety culture, harness technology and research, then apply the best of what we've learned to establish benchmarks, develop and ensure adherence to best practices, and implement new safety management programs.

• Strong Oversight:

- 71,442 inspections (Oct. 2013 – Sept. 2014)
- 7,684 cited violations
- Automated Track Inspections (ATIP): 77,929 track miles covered FY13-14

• Harnessing Emerging Technologies and Research:

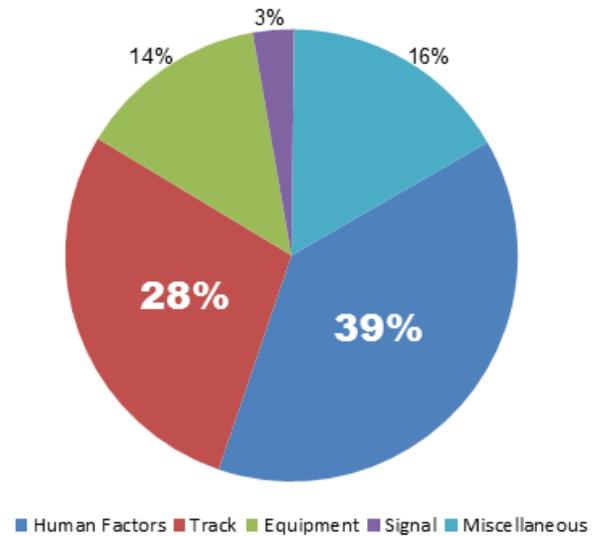
- Positive Train Control (PTC)
- Standardized Next Generation Passenger Rail Equipment
- Human Factors
- Next-generation Track and Equipment Inspections

• Innovative Partnerships with Industry and Labor

- Switching Operations Fatality Analysis (SOFA)
- Fatality Analysis Maintenance-of-Way Employees and Signalmen (FAMES)
- Operation Red Block
- Electronic Device Distraction

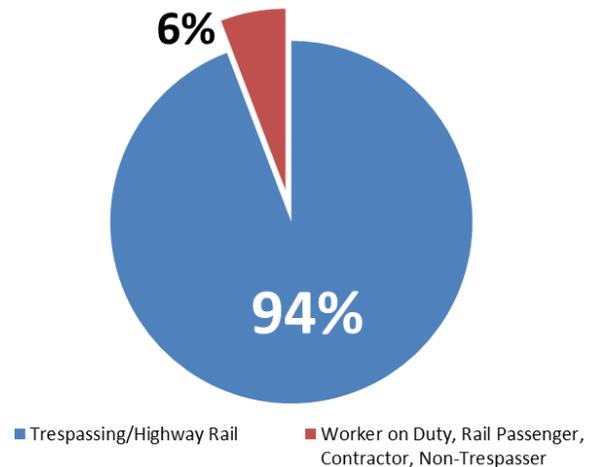
Train Accident Causes – FY 2014

Source: FRA



Rail-Related Fatalities – FY 2014

Source: FRA



Responding to Accidents

While we use data and research to ensure continuous safety improvement, we also learn from every accident. FRA investigators focus on identifying an accident's root causes so we can eliminate risk and take all appropriate enforcement action. Our focus today is:

Passenger Rail Safety:

- Operation Deep Dive on Metro North Commuter Railroad

Addressing the Safe Transport of Crude Oil by Rail

- Railroad Safety Advisory Committee (RSAC) – working groups on crew size, hazardous material, and train securement
- Operation Classification (the “Bakken Blitz”)
- FRA’s Call to Action on Safely Transporting Hazardous Materials
- Pipeline and Hazardous Materials Safety Administration’s (PHMSA) Operation Safe Delivery
- Tank Car Integrity (PHMSA’s DOT 111 Tank Car Advanced Notice of Proposed Rulemaking)
- Emergency Preparedness and Response



Leading the Next Generation of Safety Improvements

Long-term, regulations and enforcement alone will not be the sole driver of continuous safety improvement. We are advancing a comprehensive safety approach that includes a continued focus on track defects and human factors, our biggest areas of exposure. Working with industry management and labor, we are developing a rail safety culture that goes beyond regulations to performance-based risk management programs tailored to each railroad's operating environment. Our activities include:

Regulations and Inspection Program

- Training Standards for Safety Employees+
- Passenger Equipment Safety Standards for High-Performance Rail
- Train Horn Rule to Mitigate Community Impact While Maintaining Safety
- Use of Cameras on Trains
- Revisions to Signal System Reporting Requirement and Hours of Service Recordkeeping
- Drug Testing for Maintenance-of-Way Employees

Addressing the Safe Transport of Crude Oil by Rail

- Risk Reduction and System Safety Programs – new tools for promoting freight and passenger rail safety+
- Fatigue Management – including science-based hours of service regulation
- Confidential Close Call Reporting System (C3RS)
- Clean Signal for Action
- Harmonizing Railroad Operating Rules

Capital Investments – Including Robust R&D

- Advocating for Predictable and Reliable Funding
- Sealing off Corridors*
- Piloting Wayside and Vehicle Based Inspections and Test Technology that Help Prevent Unsafe Conditions that Could Lead to an Accident
- Detection of Track Buckling
- Intelligent Transportation Systems (vehicle warning systems for drivers)
- Research on Locomotive Cab Ergonomics and Design

*Reauthorization

+RSIA Requirement

