



Joint Legislative Transportation Oversight Committee

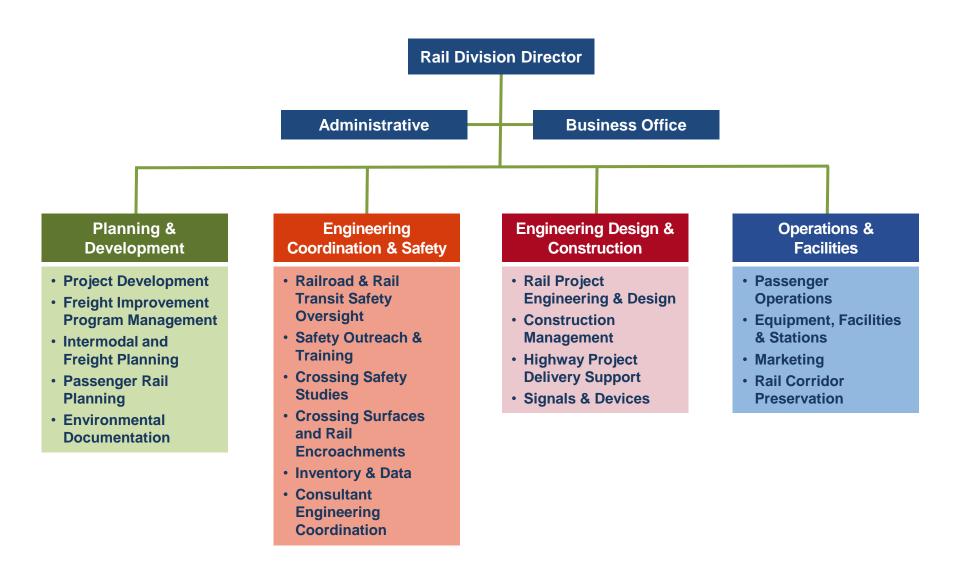
January 8, 2015

NCDOT Rail Division

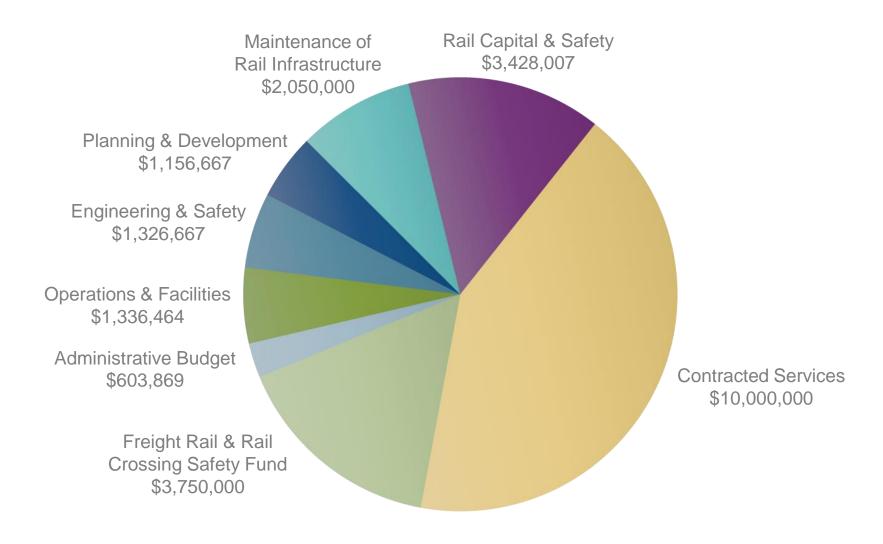
Paul Worley, NCDOT Rail Division Director



Rail Division



Rail Division – State FY 2016 Funding – \$23,651,674



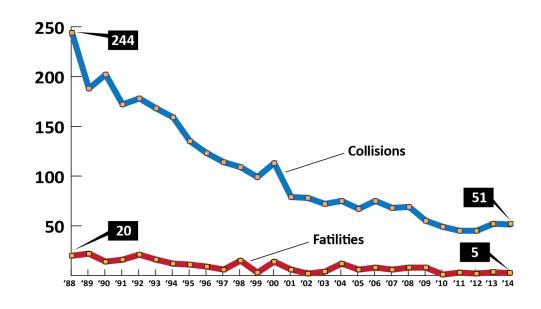
Railroads Operate in 86 of 100 Counties



At-Grade Highway-Rail Crossings

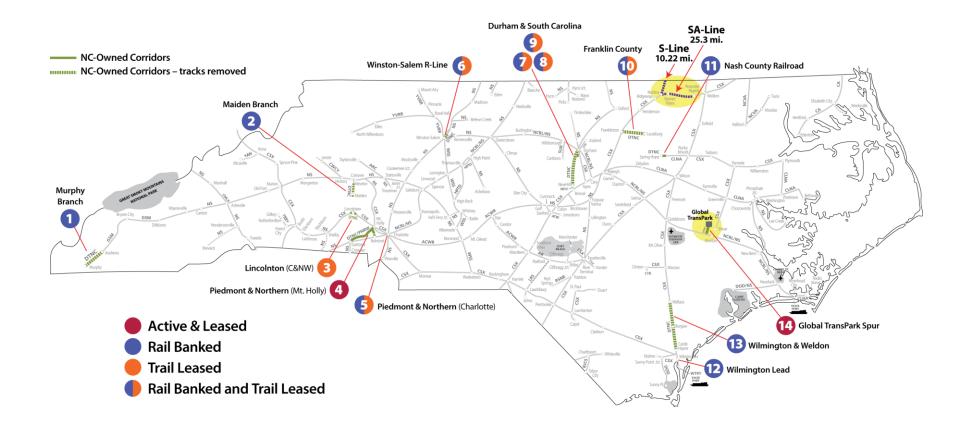
Improvements to and elimination of at-grade highway-rail crossings have reduced train-car collisions and resulting fatalities

- 60% of 4,025 public crossings have automatic warning devices
- Approximately 1,600 at-grade crossings remain unsignalized
- NCDOT continues to partner with railroads and others to improve or eliminate at-grade crossings
- Priority system based on FHWA-approved "Investigative Index" system
- No current funding for closing or improving private crossings



Corridor Preservation

- New operator on GTP spur
- Proposed acquisition of S-Line and SA-Line
- Coordinate with local Economic Developers, RPOs and MPOs



Freight Connectivity Planning

Eastern Intermodal

- 25-Year Vision and 2015 Rail Plan identified need for better intermodal service and access to the Triangle and Eastern NC
- Would provide enhanced logistics to existing and prospective businesses in the Triangle and rural eastern NC

GTP to Port of Morehead City

- SB-402 Eastern Infrastructure Improvement Study
- Feasibility Study Update

Access to Port of Wilmington

- Near term at-grade crossing consolidation and improvements
- Long term Second Cape Fear River Bridge

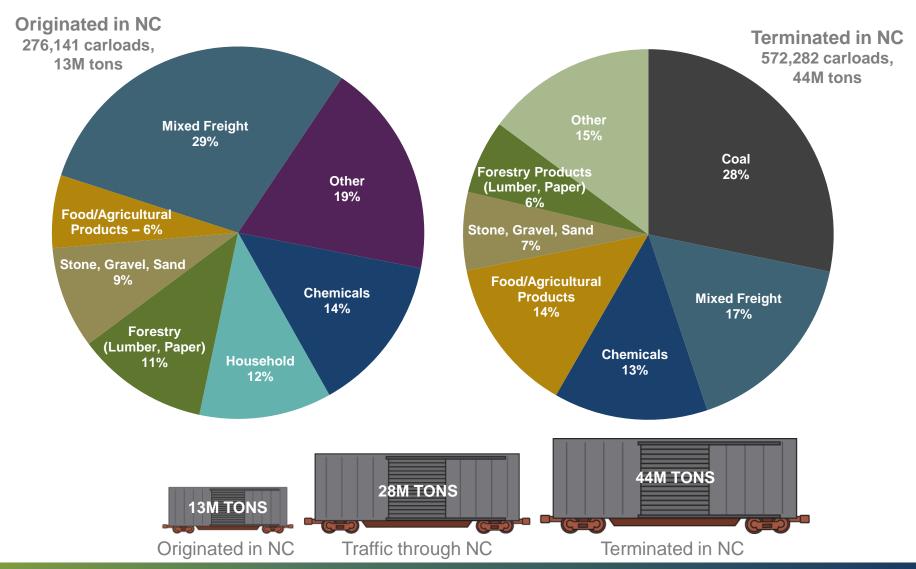


Market and business justification enhances access to national markets.

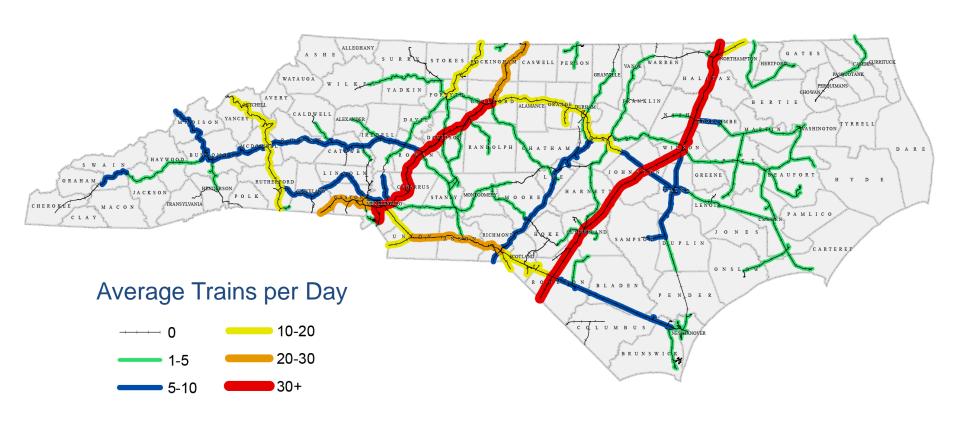
Transportation Transport T

Freight Rail Traffic

Source: Surface Transportation Board Waybill Sample

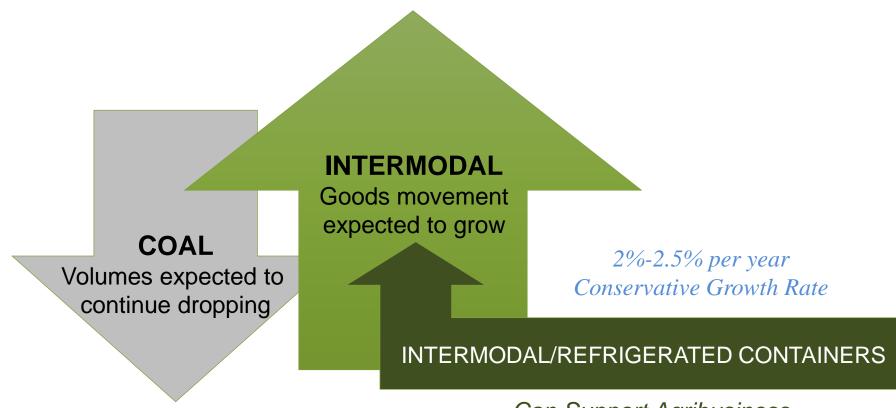


2015 Train Volumes in North Carolina



Rail Movement Trends

Dominant freight volumes move north and south on Class I Railroads
Class I branch lines and short lines provide NC east-west access to the
Class I system



Can Support Agribusiness

2015 State Rail Plan Recommendations - Freight

- Safety improvements along Investment Tier corridors (heavy freight traffic and serving our ports)
- Capacity improvements at/near intermodal terminals
- Evaluate competitive intermodal service to Eastern NC and the Triangle, considering agriculture, cold storage and manufacturing
- Study major railroad improvements Kinston to Morehead City; access to Wilmington
- Continue to seek partnerships for restoration of Wallace-Castle Hayne segment (Port of Wilmington)
- Serve emerging markets
- Preserve corridors active and inactive





<u>Transportation</u>

Freight Program – STI P3.0

Class I Projects and Needs – in 2016-2025 STIP (STI P3.0)	0-5 Years	BCA Ratio for Near Term Projects (Discounted at 3%)
New Norfolk Southern TBT (Bulk Terminal) Facility in Charlotte	\$976,000	1.97
Container parking/storage adjacent to Norfolk Southern's Greensboro Intermodal Facility (converts former Roundhouse property)	\$1,695,000	13.11
CSXT – 10,000 foot siding extension at Stouts in Union County. Creates passing siding on segment of single track that benefits general freight and intermodal traffic	\$10,600,000	14.77
Upgrade NS rail line paralleling US 52 in Albemarle (Stanly County) to allow for freight	\$2,126,000	1.39
Subtotal	\$15,397,000	
Funded by State	\$8,548,000	
Funded by CSXT	\$5,300,000	
Funded by NS	\$1,549,000	
Additional Near, Mid, and Long-term Class I freight rail projects: (2015-2040)*	\$1.1B	

^{*}Includes projects such as track improvements/new access, intermodal and rail yard improvements, crossing safety and grade separations, corridor preservation and energy development support.

Benefits of Freight Rail Projects

Benefit Cost Ratios represent the ratio of public benefits to costs

- The discount rate is used to bring streams of benefits and costs over time to a common year
- Public benefits for freight project typically include:
 - Shipper savings logistics cost savings to businesses and industries that ship goods
 - Safety benefits the value of reducing the number and severity of accidents
 - Pavement maintenance costs avoided the cost savings that result from reduced highway maintenance needs that can occur when truck traffic is diverted to rail
 - Congestion savings the value of the time that a project can save users / travelers on the transportation system
 - Emissions savings the value to the public of reducing emissions



Short Line Freight Program – Identified Needs and Costs

Based on 11 Short Line Survey Responses	Funding Needs By Time Period		
Short Line Projects and Needs Eligible for Funding by FRRCSI	0-5 Years	6-10 Years	11-20 Years
Bridges	\$54,000,000	\$3,000,000	\$22,000,000
Rail	\$5,000,000	\$11,000,000	\$28,000,000
Ties and Surfacing	\$14,000,000	\$14,000,000	\$30,000,000
Additional Capacity	\$16,000,000	\$5,000,000	\$1,000,000
Rail Yards	\$1,000,000	\$2,000,000	
Transloads	\$2,000,000	\$500,000	
Other Needs	\$3,000,000	\$34,000,000	\$2,000,000
Total*	\$95,000,000	\$69,500,000	\$83,000,000

^{*}Includes projects such as improvements of bridges and culverts, track structure, crossing surfaces, interchange points, rail yards and transfer facilities

Some Near-Term Approaches to Addressing Short Line and Class I Identified Needs

Railroad Bridges

Many on light density lines need upgrading to 286K standards for today's railcars.

In 2010, approximately 53% of the regional and short line system in the US could accommodate 286k.





Class I needs identified in Rail Plan included 19 projects – at \$320M

Support Freight Diversions to Rail

Providing access and additional rail capacity to existing industries





Freight Rail & Rail Crossing Safety Improvement Fund

Established 2013 under NCGS §124-5.1 and funded by annual NCRR cash dividends

\$26.7M allocated to date:

- \$19.2M SFY 2014*
- \$3.75M SFY 2015
- \$3.75M SFY 2016

Program goals:

- Make North Carolina's railroads safer
- Meet the needs of existing rail customers
- Address needs of prospective rail customers
- Build to meet the needs of future rail customers in small urban and rural areas



*Includes one-time first-year additional \$15.45M allocation

FRRCSI Project Categories & Needs

Funds allocated statewide by NCDOT to projects based on:

- Eligibility
- Needs
- Prioritization methodologies

Track & Infrastructure Improvements

- Short LineInfrastructureAssistance
- Class I Infrastructure Projects
- Federal GrantMatching Funds

Grade Crossing Protection, Elimination & Signalization Improvements

- Closures
- Corridors
- Signals
- Signage
- Surfaces

Rail Access Improvements

- Discretionary Grant Matching Funds
- Rail Industrial Access
- Military
- Ports
- Industry

FRRCSI Projects – 2014-2015



Track Infrastructure Improvements 24 7.0M 6.2M 13.2M 9.4M 0.1M 9.5M Crossing Safety & Signal Improvements 31 Rail Access Improvements 25 6.5M 15.5M 22.0M 44.7M **Program Grand Total** 80 22.9M 21.8M

State Grant Programs – FRRCSI Funded

Short Line Infrastructure Assistance Program (SIAP)

- Traditionally funded by annual state legislative allocation
- Previous annual allocations have ranged from \$0 to \$2 million
- FRRCSI is the source of funding in FY14 & FY15

Rail Industrial Access Program (RIAP)

- Traditionally funded by annual state legislative allocation
- Previous annual allocations have ranged from \$119k to \$1 million
- Provides funds for construction of rail spurs to allow industries new or expanded rail access
- Bringing jobs to people
- Diverting freight from highways to rail



2015 Fixing America's Surface Transportation Act (FAST)

Nationally Significant Freight and Highway Project Program

- Grants of at least \$25 million
- Federal share cannot exceed 60%
- States / governmental entities
- Rail freight and intermodal
- Crossing and / or grade separations
- All project development phases eligible
- \$800 million nationally in 2016 Omnibus



Transportation Investment Generating Economic Recovery (TIGER)

- \$500 million in 2016 Omnibus
- Coordinate funding between STI and TIGER

Section 130 Crossing Safety Funding

- Slight increase in national set aside from \$220M to \$245M
- NC has typically received \$6.5M



Questions?

