

Canada's Rail Safety Agenda

Canadian Institute of Logistics and Transportation North America

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Ottawa, ON

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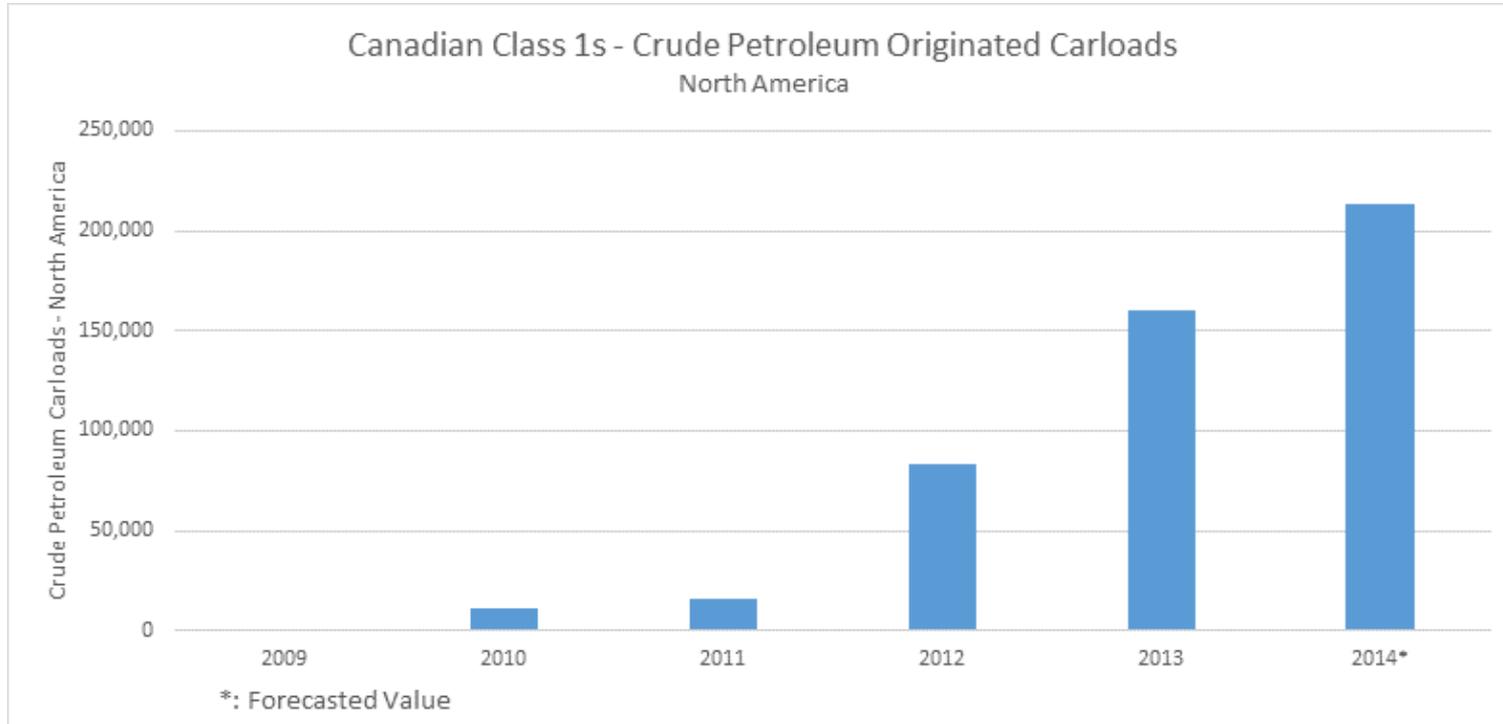
A Large Network from an Outreach standpoint!



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Why do we need outreach?



Source: CN, CP Annual Reports 2013 and Investor Fact Books 2013



Challenges: DGs moved by rail

Anhydrous ammonia (NH ₃)	Chemical Agriculture Consumer products	-Roughly 80% of ammonia produced is used as fertilizer -Ammonia is also used as a refrigerant gas, for purification of water supplies, and in the manufacture of plastics, explosives, textiles, pesticides, dyes and other chemicals. It is found in many household and industrial-strength cleaning solutions
Benzene	Chemical Pharmaceutical Petroleum Consumer products	-Used in motor fuels -Solvent for fats, waxes, resins, oils, inks, paints, plastics, and rubber -Extraction of oil from seeds and nuts -Photogravure print-making -Chemical intermediate - Manufacture of detergents, explosives, pharmaceuticals, and dyestuffs
Chlorine (Cl)	Chemical	-Used in over 86% of crop protection chemicals -Used in over 90% of pharmaceuticals -The greatest volume of chlorine is used in the production of polyvinyl chloride (PVC), used in medical equipment, building materials, appliance parts and water pipes
Sulfuric Acid	Chemical Mining Manufacturing	-Used to extract phosphates for fertilizers -Used to bleach paper -Used as an industrial catalyst -Vulcanization of black rubber...

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Nothing is more important to Canada's railways than operating safely. Since the tragic accident in Lac-Mégantic, Canada's railways have launched new initiatives to improve safety, transparency and emergency preparedness, while accelerating their existing safety efforts.

What we have done:

•Collaborated with Transport Canada to get safety improvements in place

- Train securement & prevention of uncontrolled movements
- Single-Person Train Operations
- Dangerous goods classification and disclosure
- ERAPs (Emergency Response Assistance Plans)
- Safety Management Systems (SMS)
- AND much more....



• Transparency and Emergency Preparedness

- Federation of Canadian Municipalities, Canadian Association of Fire Chiefs

• Tank cars

- Retrofitting or removal of DOT-111 tank cars

• Training & Outreach

- TRANSCAER[®] and Responsible Care[®]

• Industry Collaboration / Mutual Aid

- Agreements with railways and other industry associations and their members
- Emergency Response Assistance Canada

• Investments

- \$13 billion since 2002

• RAC Safety Culture requirement

- Tools, training



•Proximity Guidelines

- Adoption of FCM/ RAC guidelines across Canada

•Enhanced insurance and liability regimes

- Shippers' fund would fund accidents

•Grade crossing improvements

- Will enhance safety of crossings
- Fewer crossings

•Operation Lifesaver

- Dumb Ways to Die
- Classrooms, contests, social media outreach



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- **A collaboration with the Network for Business Sustainability**
- **Outreach session with NGOs and academics on November 18**
- **Purpose of the meeting:**
 - To initiate a dialogue with civil society and scope a sustainability agenda for the railway sector
 - To listen and better understand issues of importance from this audience
- **What we heard**
 - Railway sustainability should include environmental, social and economic issues, including safety.



Network for
Business Sustainability

&

Western
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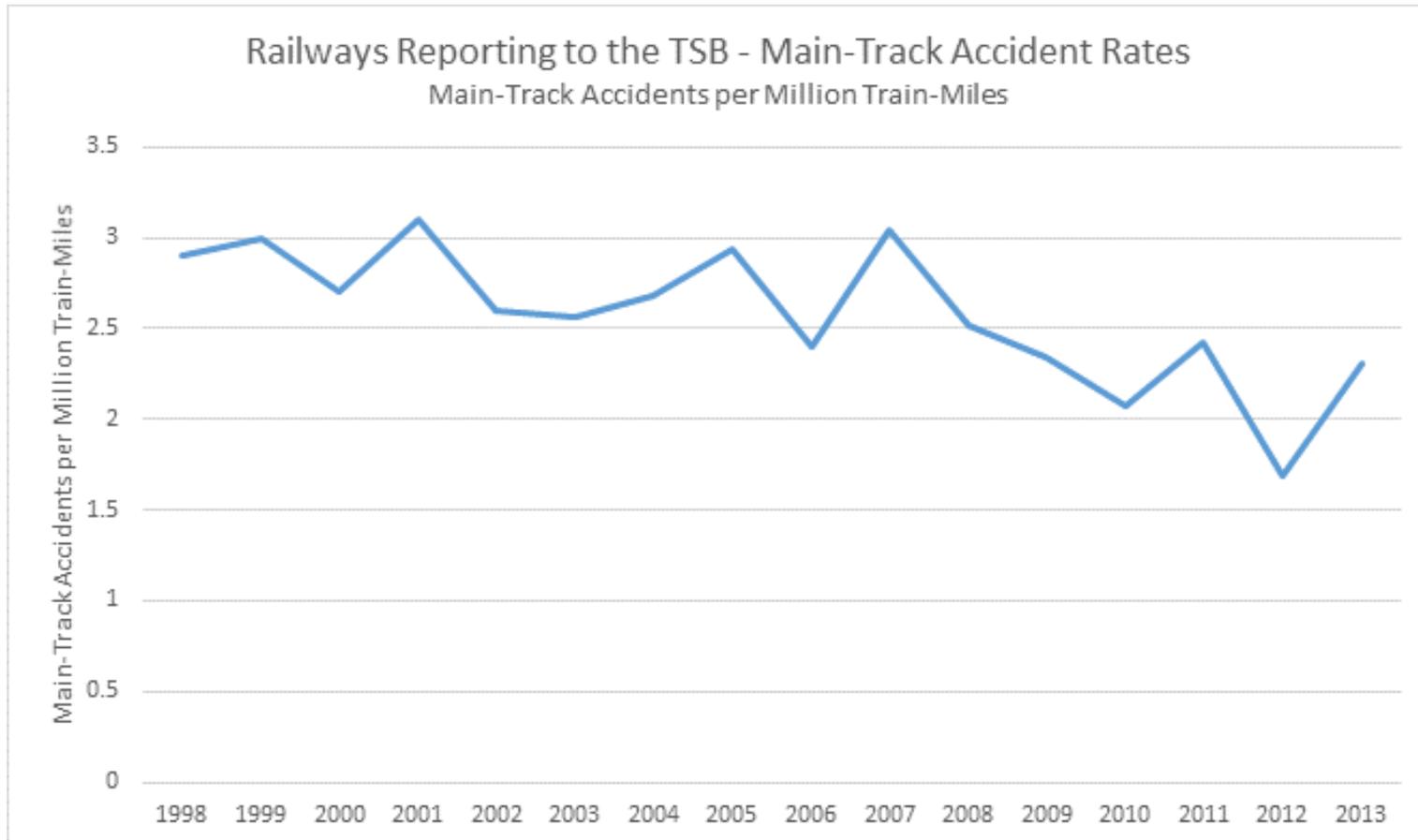


- Pembina institute
- Nature Conservancy
- David Suzuki Foundation
- McMaster University
- Stratos
- International institute for Sustainable Development
- Earth Day Canada
- Sustainalytics
- University of Waterloo

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Continued Progress



Source: TSB 2013 Annual Report

