

# Canada-U.S Freight Flows Along the Vermont-Québec Corridor

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# Canada-U.S Freight Flows

## Important Economic Relationship

- Vermont is Québec's second largest foreign export market.
- Over 47% of Vermont's total exports are to Canada, most to Québec.

### Top Destinations of Québec's U.S. Exports

New York	\$6.1 billion
<b>Vermont</b>	<b>\$3.2 billion</b>
Pennsylvania	\$3.1 billion
Tennessee	\$3.1 billion
Illinois	\$2.6 billion

Source: Ministère des Relations Internationales , 2008  
[http://www.mri.gouv.qc.ca/en/grands\\_dossiers/strategie\\_qc\\_usa/index.asp](http://www.mri.gouv.qc.ca/en/grands_dossiers/strategie_qc_usa/index.asp)

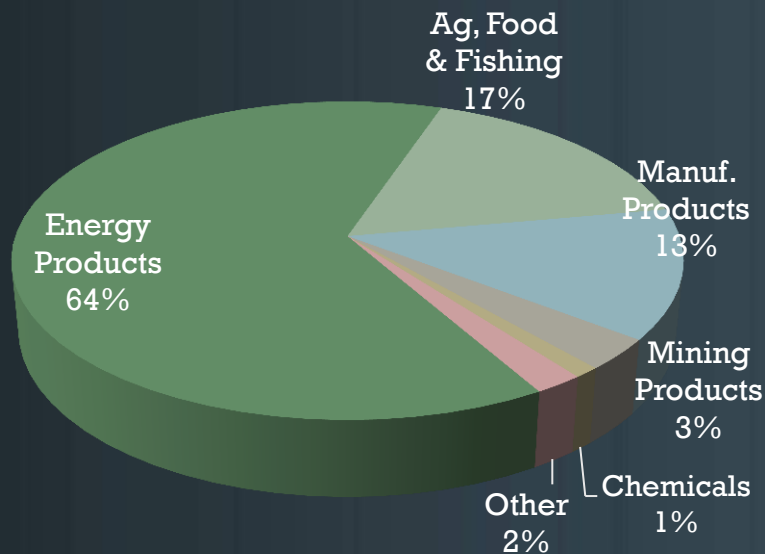
### Top Destinations of Vermont's Foreign Exports

<b>Canada</b>	<b>\$2 billion</b>
China	\$585 million
Malaysia	\$248 million
Hong Kong	\$240 million
Japan	\$190 million

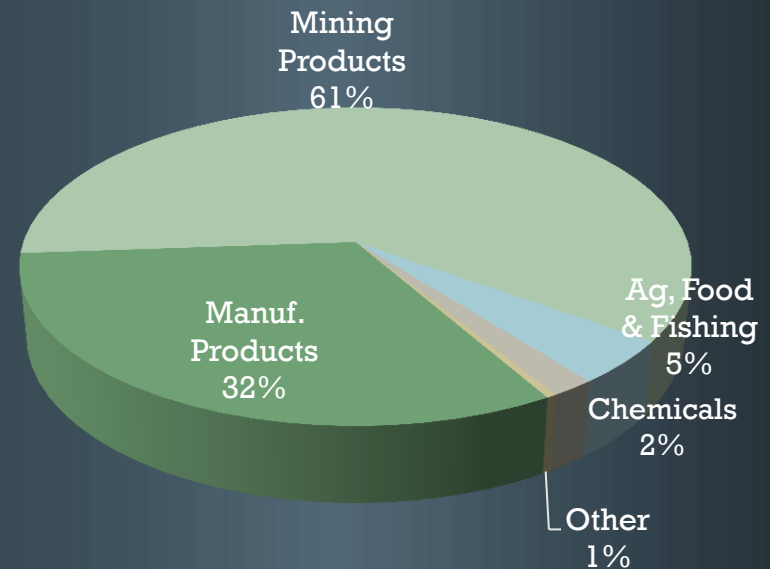
Source: U.S. International Trade Administration, 2010  
[http://trade.gov/mas/ian/statereports/states/tg\\_ian\\_002757.asp](http://trade.gov/mas/ian/statereports/states/tg_ian_002757.asp)

## Vermont Imports and Exports to-from Canada

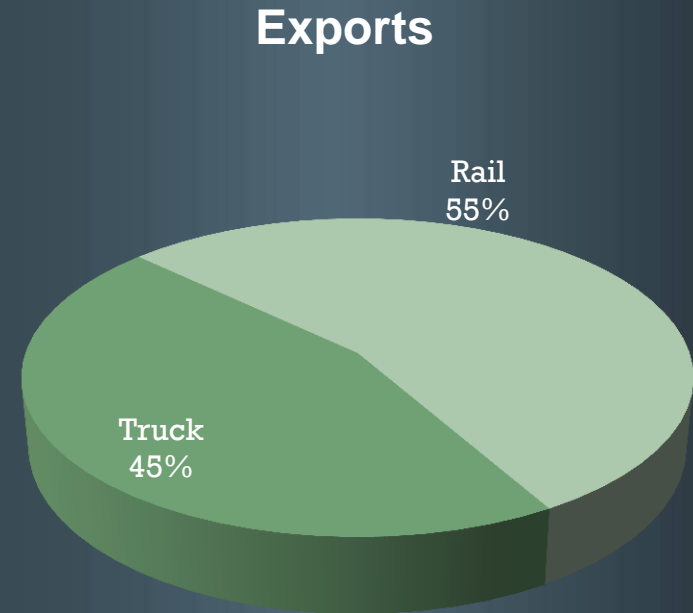
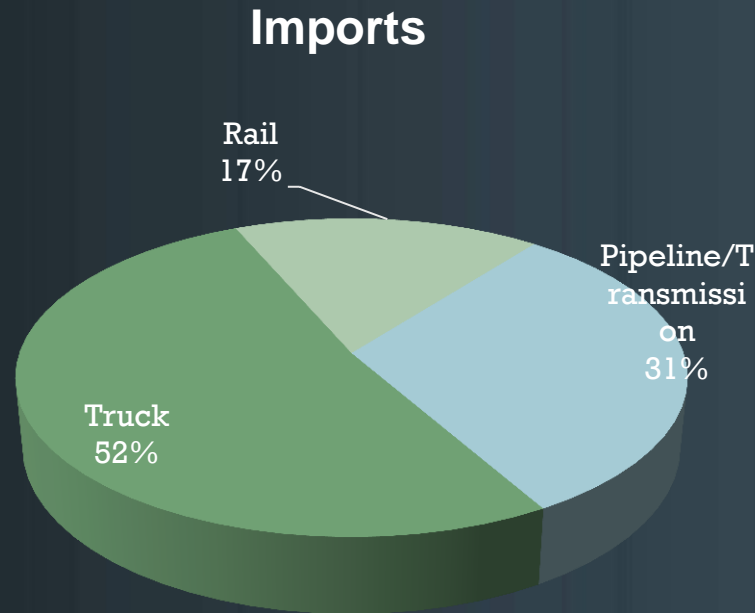
### Imports



### Exports



## Vermont Imports and Exports to-from Canada by Mode



Source: Vermont Freight Plan - <http://www.aot.state.vt.us/planning/FreightplanDocuments.htm>

## Vermont is a Major Freight Crossroads

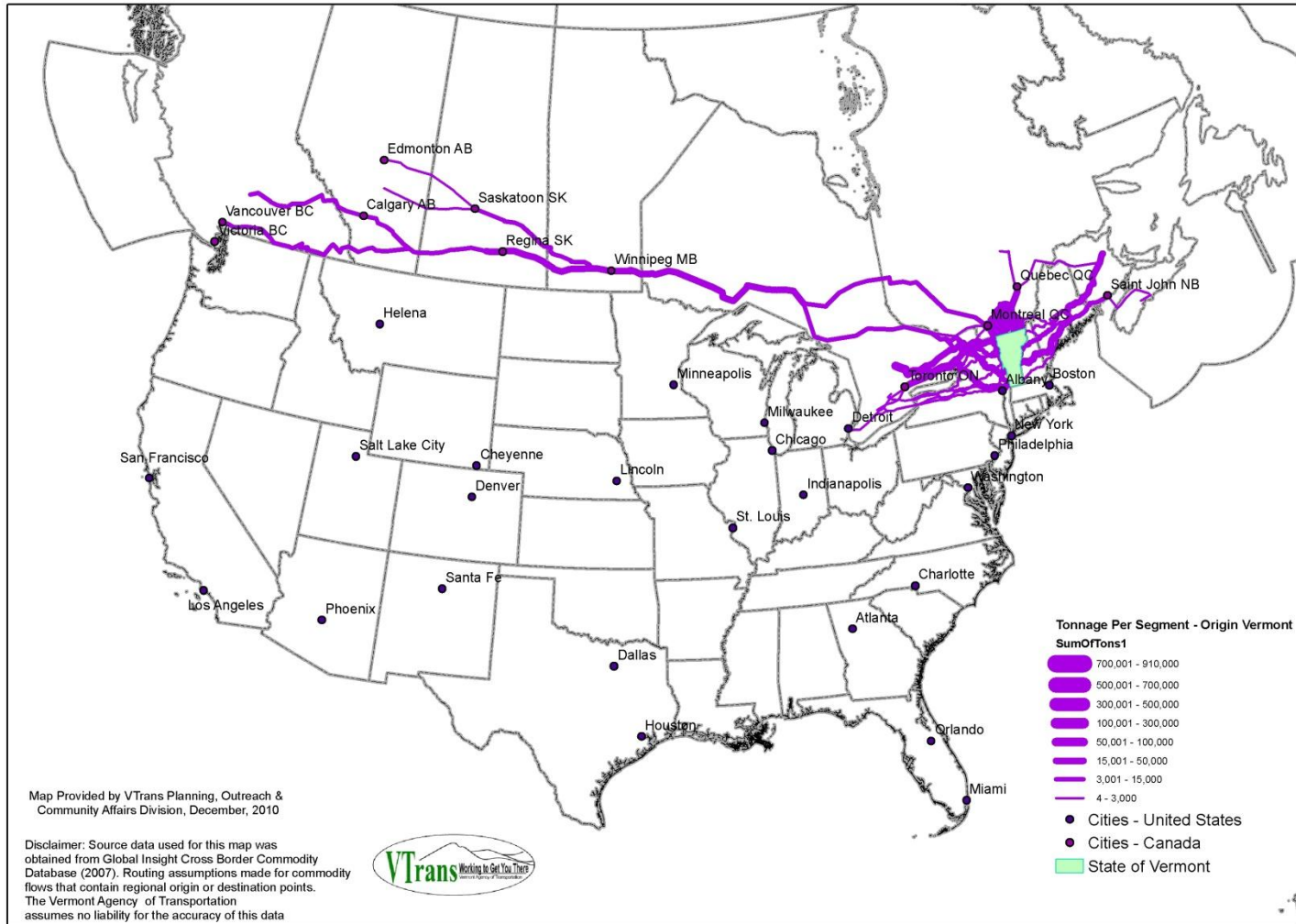
- 40% of freight tonnage passing through is through freight.
- For international trade it is even higher: 67% of the 10.4 million tons of freight crossing Vermont is through freight.





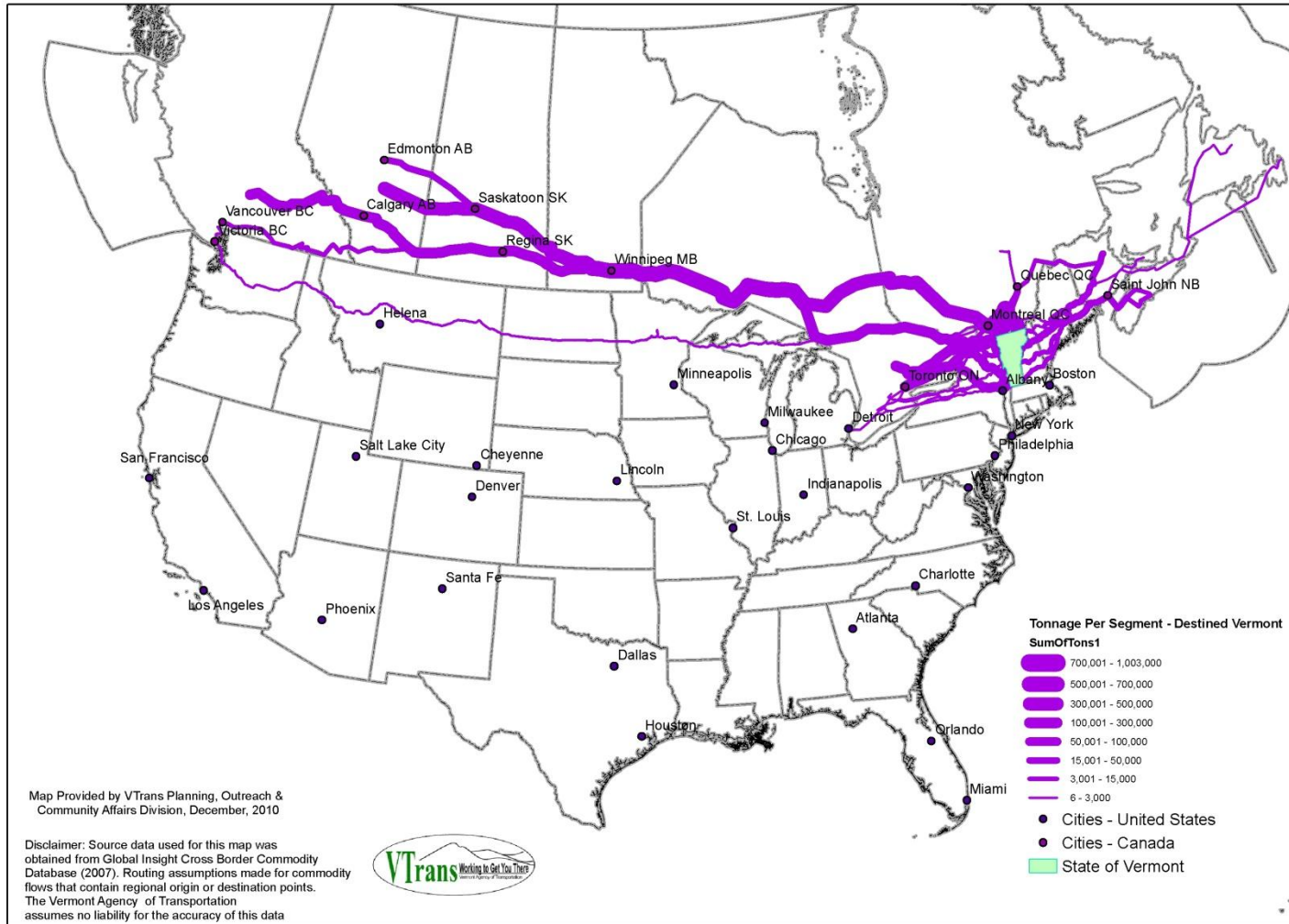
# Canada-U.S Freight Flows

## U.S.-Canada Cross Border Commodity Flows Originating From Vermont and Destined for Canada



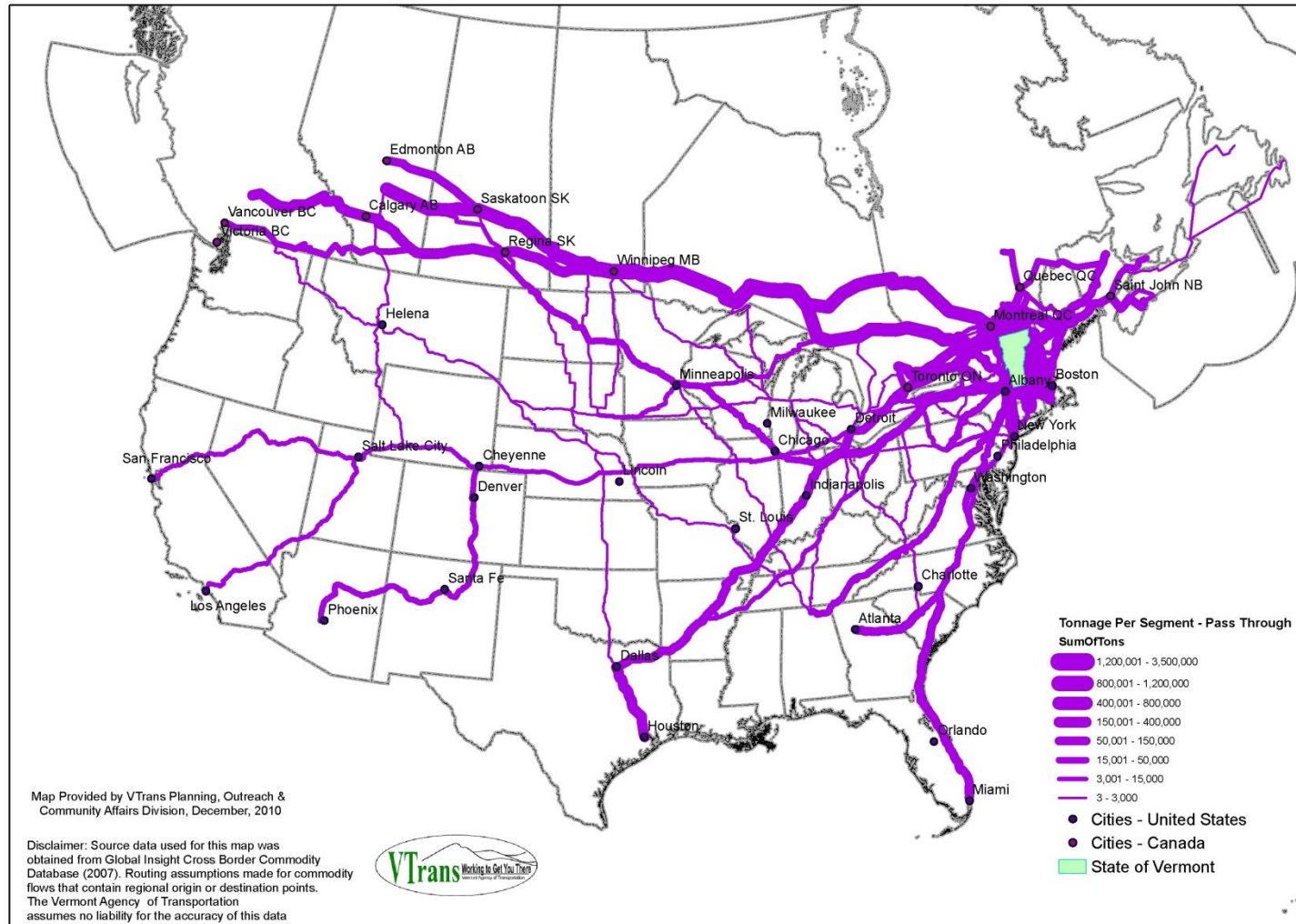
# Canada-U.S Freight Flows

## U.S.-Canada Cross Border Commodity Flows Originating From Canada and Destined for Vermont



# Canada-U.S Freight Flows

## U.S.-Canada Cross Border Commodity Flows Through Vermont

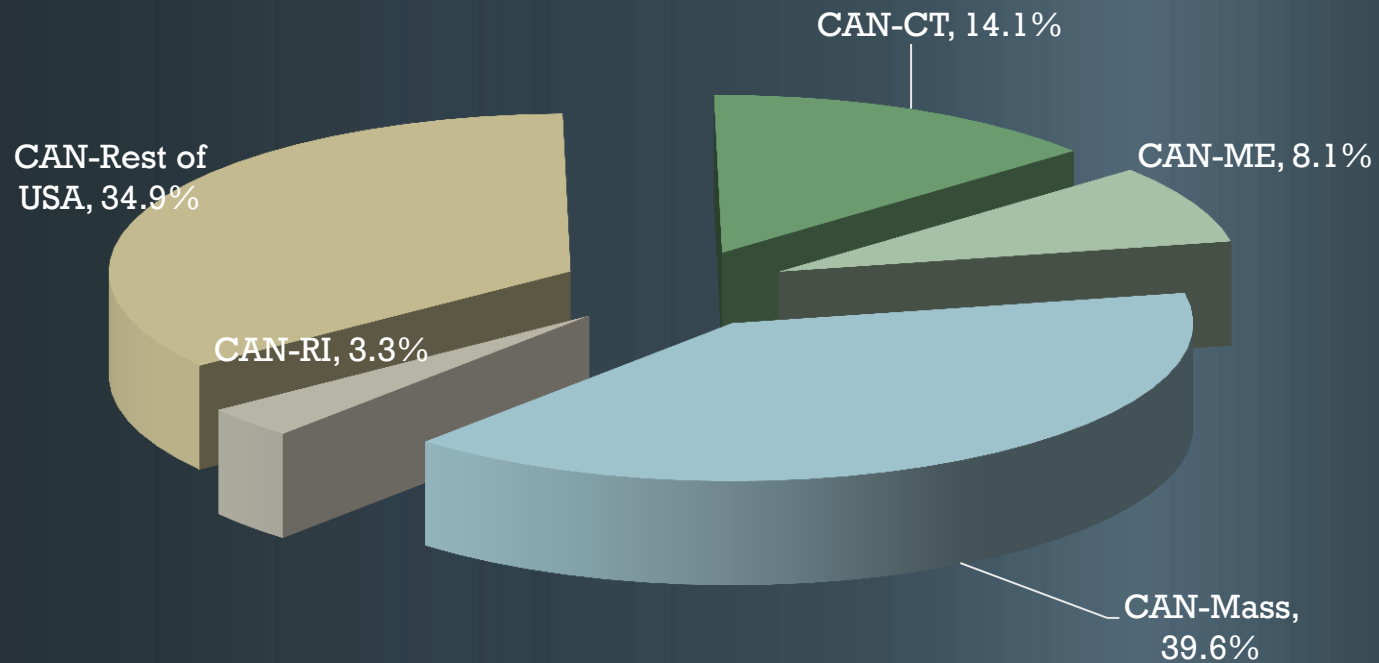




# Canada-U.S Freight Flows



## Destination of Canada-U.S. Freight Flows Through Vermont

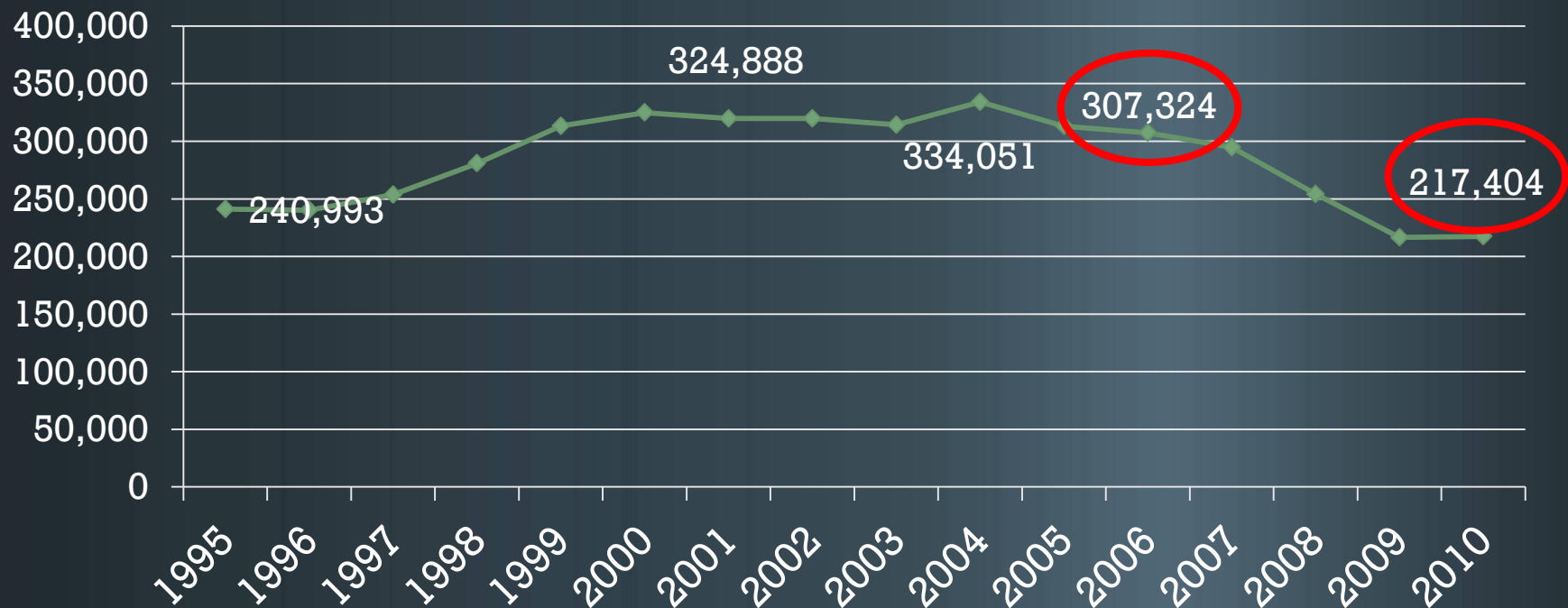


Source: Global Insight Cross-Border Commodity Database

# Canada-U.S Freight Flows

The recession has had a major impact on truck cross border flows

**Truck Flows Through Vermont Borders from Crossings into the U.S**

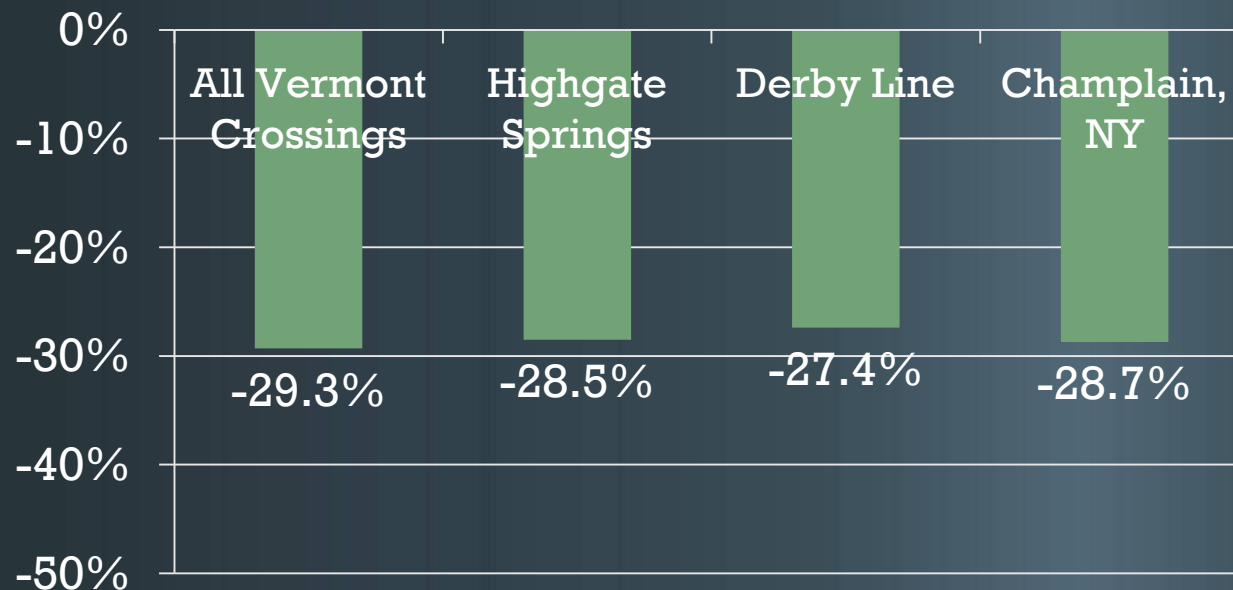


Source - North American Border Crossing/Entry Data

[http://www.bts.gov/programs/international/transborder/TBDR\\_BC/TBDR\\_BC\\_Index.html](http://www.bts.gov/programs/international/transborder/TBDR_BC/TBDR_BC_Index.html)

## Cross border truck flows decline in all areas crossings

### 2006-2010 Change in truck Crossings from Canada into the U.S by Crossing



Source - North American Border Crossing/Entry Data

[http://www.bts.gov/programs/international/transborder/TBDR\\_BC/TBDR\\_BC\\_Index.html](http://www.bts.gov/programs/international/transborder/TBDR_BC/TBDR_BC_Index.html)

## Another worrisome trend for truck flows – empty truck containers

**Empty Truck Containers Through Vermont  
Crossings from Canada into the U.S**

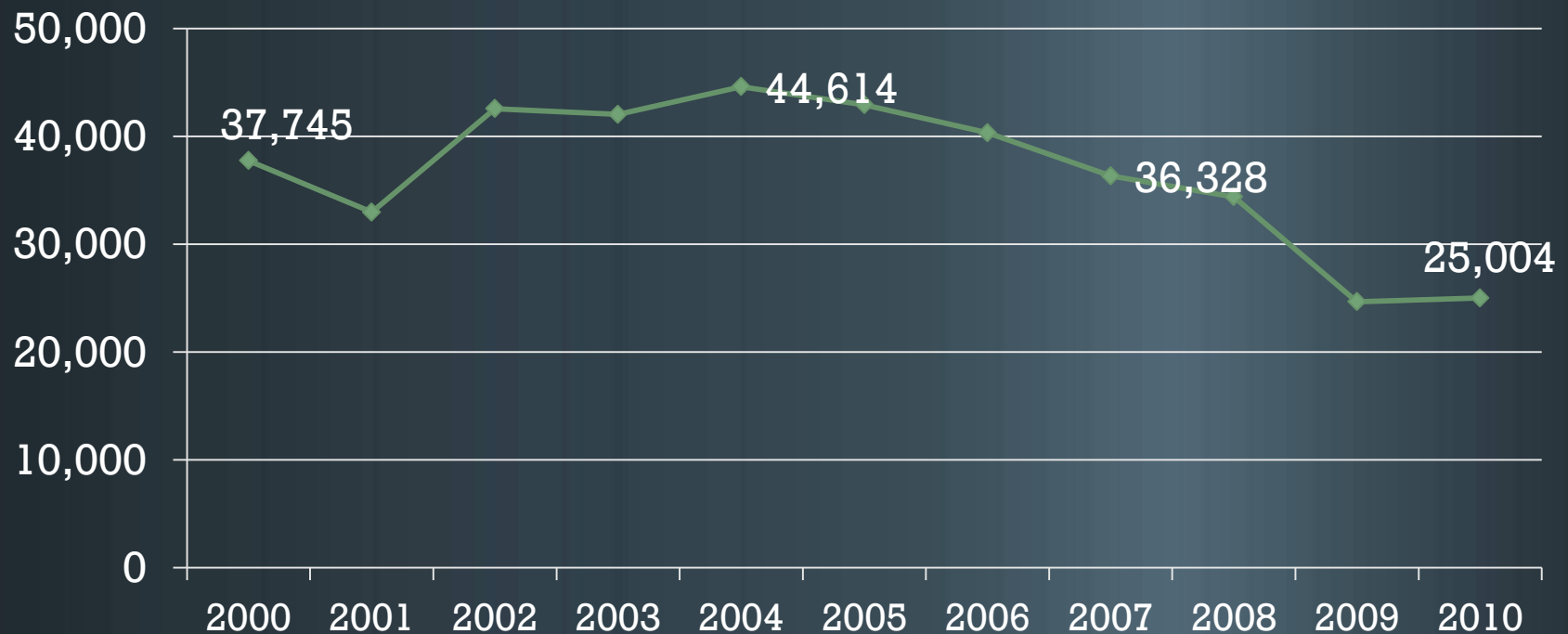


Source - North American Border Crossing/Entry Data

[http://www.bts.gov/programs/international/transborder/TBDR\\_BC/TBDR\\_BC\\_Index.html](http://www.bts.gov/programs/international/transborder/TBDR_BC/TBDR_BC_Index.html)

## Rail freight shows similar decline in numbers

**Loaded Rail Containers Through Vermont Crossings  
from Canada into the U.S**

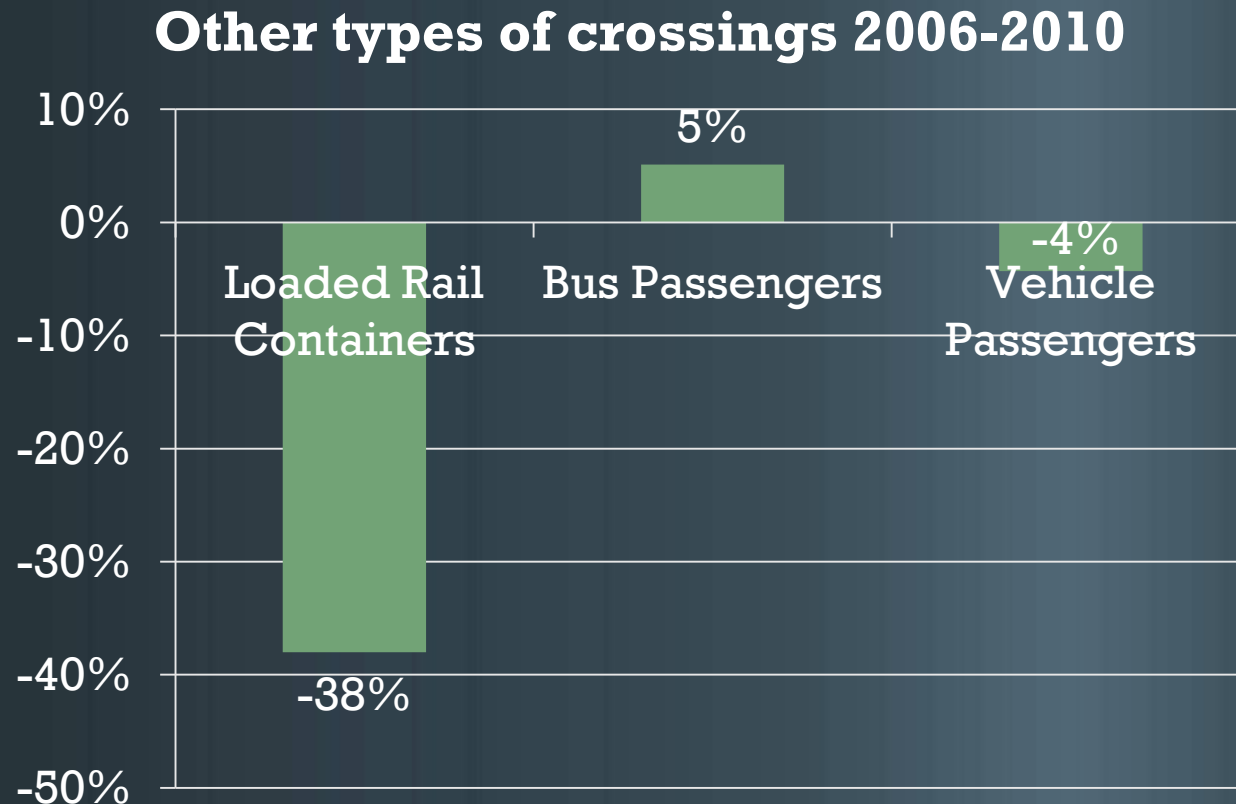


Source - North American Border Crossing/Entry Data

[http://www.bts.gov/programs/international/transborder/TBDR\\_BC/TBDR\\_BC\\_Index.html](http://www.bts.gov/programs/international/transborder/TBDR_BC/TBDR_BC_Index.html)



## Non-freight crossings faring better



Source - North American Border Crossing/Entry Data

[http://www.bts.gov/programs/international/transborder/TBDR\\_BC/TBDR\\_BC\\_Index.html](http://www.bts.gov/programs/international/transborder/TBDR_BC/TBDR_BC_Index.html)

## Major Issues Affecting Canada-U.S Freight Flows through Vermont

1. Vermont Interstate Weight Limits at 80,000lbs versus 100,000 lbs elsewhere impairs truck flows and productivity



# Canada-U.S Freight Flows



Heavy trucks forced to pass through historic towns and village centers negatively impacts safety and quality of life.

## Major Issues Affecting Canada-U.S Freight Flows through Vermont

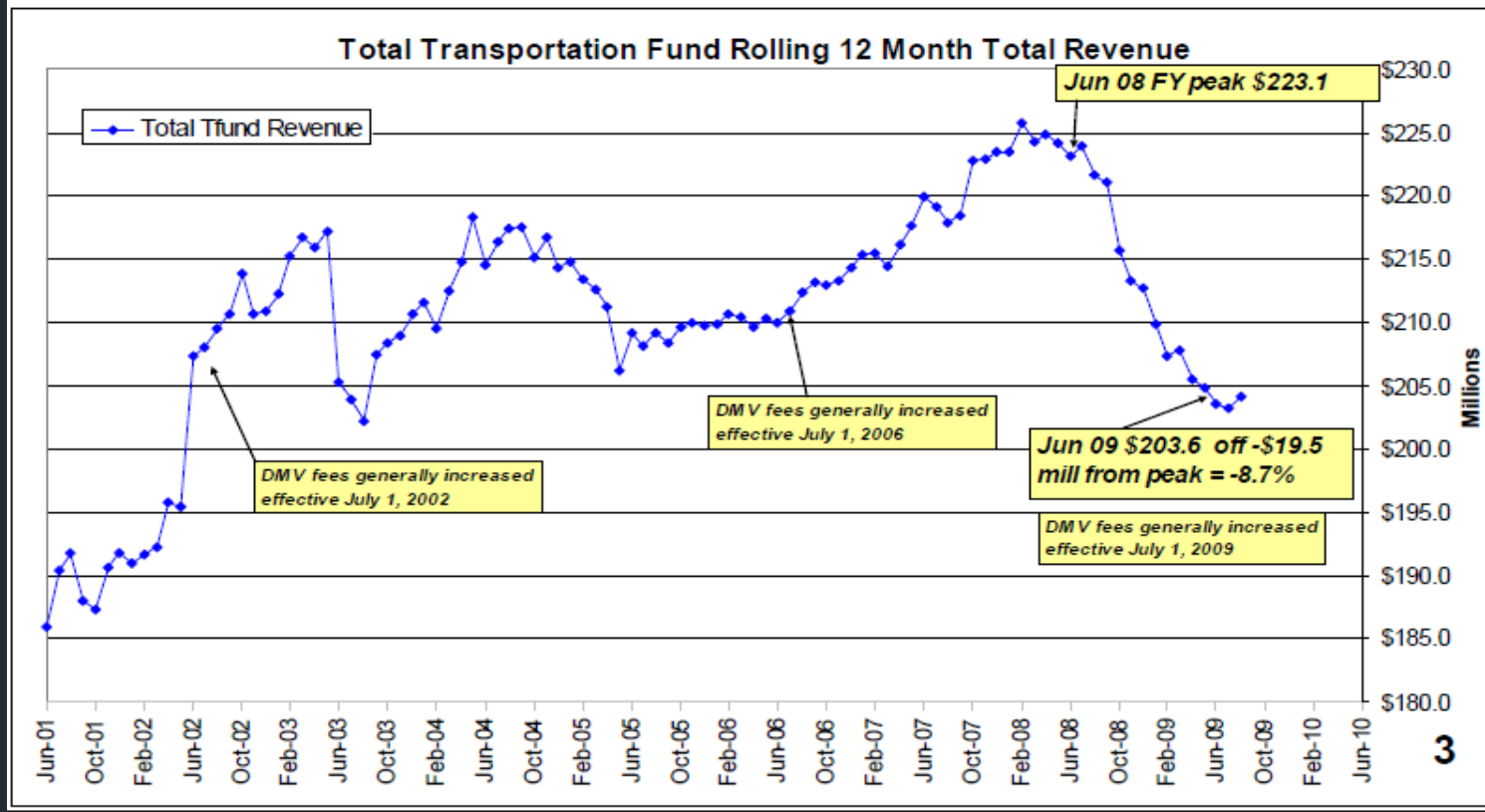
2. Continued funding pressures to maintain roadway and rail infrastructure

# Canada-U.S Freight Flows

## Vermont

Legislative Joint Fiscal Office

**Anemic Revenues:** Along with the economy, TFund revenue has plummeted since the summer of 2008



Source: Vermont Transportation Funding: An Ongoing Dilemma , 2009 (Joint Fiscal Office Report)

[http://www.leg.state.vt.us/jfo/issue\\_briefs\\_and\\_memos/Transportation%20Funding%202010-2009.pdf](http://www.leg.state.vt.us/jfo/issue_briefs_and_memos/Transportation%20Funding%202010-2009.pdf)



# Canada-U.S Freight Flows

## Aging Infrastructure:

- (1) Costly highway and railroad structures that need to be replaced or rehabilitated.
  - Structures built in the 1920-1930s need to be replaced.
  - Structures built in the 1950-1960s need major rehab.
- (2) Close to 30% of Vermont's bridges are structurally deficient or functionally obsolete.
- (3) Over 48% of total bridge deck areas in the state are 31-50 years old.
- (4) 36% of the state's road pavement is rated 'very poor'.

# Canada-U.S Freight Flows

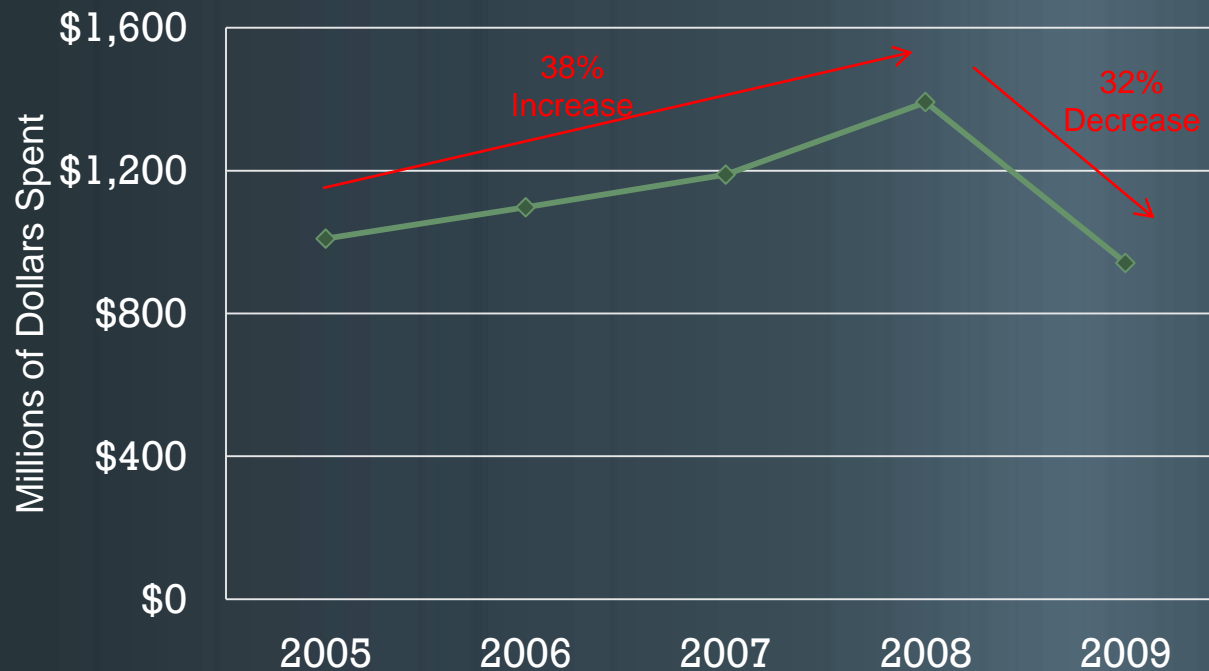
- The Joint Fiscal Office estimates that just to maintain the existing infrastructure in serviceable condition would require spending \$415 million a year for the next 30 years.
- Our current level of spending on infrastructure preservation: \$211 million, leaving a \$203 million spending gap.

Annual Infrastructure Preservation Costs			
\$millions	IPC	FY08	Gap
Maintenance	\$63.6	\$63.6	\$0.0
Paving	\$85.0	\$56.4	-\$28.6
Highway Reconstruction	\$136.3	\$38.5	-\$97.8
Bridges	\$109.8	\$29.0	-\$80.8
Town bridges	\$19.4	\$23.4	\$4.0
<b>Total</b>	<b>\$414.1</b>	<b>\$210.9</b>	<b>-\$203.3</b>

# Canada-U.S Freight Flows



## Total Annual Spending on Gasoline and Diesel in Vermont, 2005-2009



Source: The Vermont Transportation Energy Report: Vermont Clean Cities Coalition (August 2010)

- Annual spending on gasoline and diesel declined from \$1.3 billion in 2008 to \$941 million in 2009.

# Canada-U.S Freight Flows



The demolished Lake Champlain Bridge, April 2010

## Major Issues Affecting Canada-U.S Freight Flows through Vermont

3. August 2011 floods destroyed numerous road, bridge and rail structures.



# Canada-U.S Freight Flows



# Canada-U.S Freight Flows



# Canada-U.S Freight Flows





# Canada-U.S Freight Flows



# Canada-U.S Freight Flows





# Canada-U.S Freight Flows



## Regional Projects Enhancing Freight Flows

1. New England Central Railroad track and bridge rehabilitation in Vermont, Massachusetts and Connecticut.



\$200 million investment will upgrade NECR line that connects with major Class I railroads such as Canadian National. Most of the corridor will be brought up to 286k carload standard.

# Canada-U.S Freight Flows



VTrans will be applying for another grant, along with Massachusetts and Connecticut to bring the entire corridor to 286k.

This will allow continuous 286k track from the port of Montreal to the port of New London, CT





## Regional Projects Enhancing Freight Flows

2. Approximately \$125 million stimulus funding has resulted in a number of paving and bridge replacement projects along major freight corridors in the last 2 years.



## Regional Projects Enhancing Freight Flows

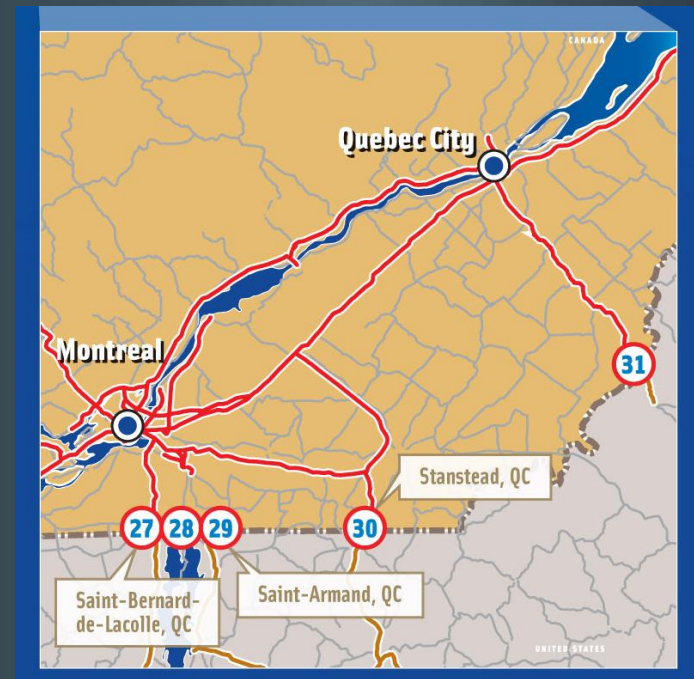
3. Québec's Autoroute 35 Extension to the Vermont Border and Autoroute 30 Project .

# Canada-U.S Freight Flows



Major highway project linking Montréal to Boston via autoroute/interstate standard roadway.

Some redirect truck traffic through Highgate Springs crossing anticipated.





# Canada-U.S Freight Flows



Major bypass route around Montreal will make cross-border truck flows more efficient.



# Canada-U.S Freight Flows



Questions or Comments?