

TRB EMS Subcommittee ANB10(5)

EMS Safety Summit 2012

Safety Systems, Strategies and Solutions

Fleet safety systems &

“Putting invehicle telematics to use”

John Cunnane, Niagara Region, Canada

February 29th , 2012



TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES



Niagara Region Demographics

Population: 430,000 (12 Municipalities)

Niagara region: 1850 square km

Ambulance call volume: 75,000 (annually)

Mileage: 2,000,000 km driven annually

26 Peak Vehicles

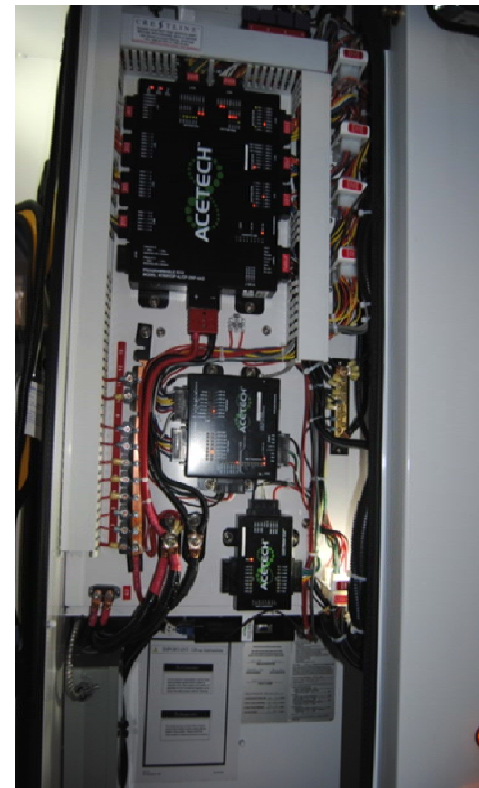


Acetech

Integrated Vehicle Intelligence System

Fully integrated, vehicle performance monitoring and control system with on-board intelligence.

- Safety Systems
- Eco-Run Module Benefits
- Asset Protection Benefits



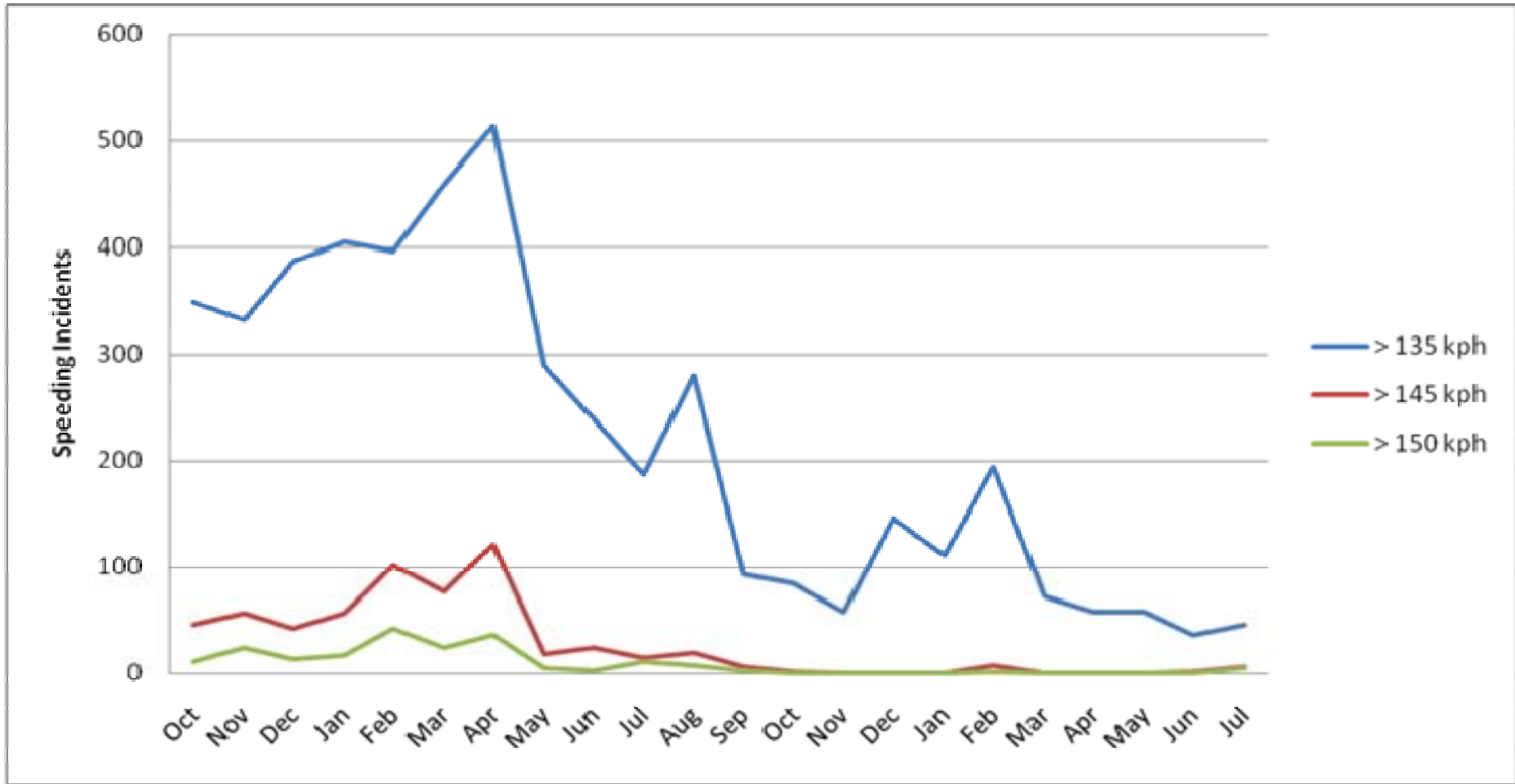
Safety System (Integrated into AVI)

- Speeding infractions, Unbelted, Unsecured occupants
- Lights and siren compliance
- Create Driver Safety Reports- provide feedback to employees
- Set pre-defined speed limiters



Niagara EMS

Decrease in Speeding Infractions



Optimize your fuel efficiency and reduce your carbon footprint

- Reduce idle times by as much as 40% to lower your fuel consumption and costs
- Reduce carbon emissions and contribute to a greener environment
- Prevent flat batteries
- Reduce engine wear and reduce maintenance costs while extending vehicle & engine life
- Monitor driver behaviour to reduce excessive rpm for additional reduction of fuel consumption

Report Generated for One Week of Excessive Idling and Potential Savings on 5 vehicles

Create a new Report

Maximize

Fleet Idling Report

Minimize

Start Date: 10/02/2012 00:00:00 End Date: 17/02/2012 23:59:00 Vehicle Group: All company groups Fuel Price: 1.30

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30h 23m 4s Excessive Idling



59.24 lt Excessive Fuel Used



\$77.02 ECO-Run Cost Savings



269.30 lbs ECO-Run CO2 Savings

Vehicle	Excessive Idles	Idle Duration	Fuel Consumed (lt)	Cost (\$)
2106	21	04:19:58	8.45	10.98
2110	27	06:28:46	12.63	16.43
2111	33	09:53:39	19.29	25.08
2114	19	05:14:06	10.21	13.27
2117	12	04:26:35	8.66	11.26



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Summary

Automatic Vehicle Informatics (AVI) Benefits

- Protect assets with theft protection and geo-fencing
- Reduce engine wear and reduce maintenance costs while extending vehicle & engine life
- Modify driving behaviors with real time dashboard and full featured reports, and automatic updates on driving violations
- Improve fleet efficiency and operations with remote vehicle diagnostics & real time Fleet Management
- Track information through web based interface or integration with established dispatch software

