

# FLEET SAFETY

How to Improve Safety on the Road



## Major Causes of Semi-Truck Accidents and How Fleet Management Solutions Can Help

Omnitracs technologies can help reduce the risk of some hazardous driving situations and make roads safer for everyone.

273,000



273,000 trucking accidents occurred in the United States in 2011.<sup>1</sup>

- About 3,700 trucking accidents resulted in fatalities.
- Approximately 88,000 of the accidents resulted in injury.

43%



43% of large-truck crashes involve another vehicle:<sup>2</sup>

- 23% Rear-end crashes
- 18% Truck running off the road or out of its lane
- 10% Truck side-swiping another vehicle

**\$** The average cost of an injury accident involving a medium/heavy truck is \$330,000. A fatal accident jumps to more than \$3 million.<sup>4</sup>

### Critical Reasons For Crashes

Primary causes of accidents:<sup>2</sup>



87%

Driver Error

10% Vehicle Malfunction

2% Environment



Crashes caused by vehicle errors can be reduced by utilizing Omnitracs Tire Pressure Management and Vehicle Inspection Reports applications.



With preventive maintenance of trucks using Omnitracs Fault Monitoring application, you can reduce breakdowns and hazardous system malfunctions on the road.

## Leading driver error factors contributing to large truck accidents:<sup>2</sup>

SPEED LIMIT  
55

### 23% | Speeding

- Omnitracs' Critical Event Reporting application can help reduce speeding and aggressive driving.
- Critical Event Reporting monitors driving behaviors and critical events in near real-time so managers can be proactive in training and coaching drivers based on actual need.
- The Over Speed add-on allows fleet managers to set customized speed thresholds and monitor driver behavior to help prevent accidents.



### 22% | Lack of familiarity with roads

- New and unfamiliar roads are clearly displayed with In-Cab Navigation
- In-Cab Navigation gives drivers real-time GPS directions with automatic re-routing, updates on route restrictions, and guidance on complicated highway exits so drivers can navigate the roads efficiently and safely.



### 13% | Driver fatigue

- EOBS for Hours of Service reporting can help reduce incidence of fatigued and drowsy driving.
- Hours of Service reporting keeps track of drivers' hours, and notifies drivers of the required rest time between miles.
- Automatically notify drivers and dispatchers of actual available hours to minimize the impact of fatigue and drowsy driving.



### 9% | Forgetting simple safety measures

- Regular In-Cab Training can help drivers remember to use simple safety measures such as turn signals.
- Fleet managers can provide drivers with regular training on system updates, safe driving practices, and regulatory updates.



### 8% | Distracted driving

- Distracted driving is prevalent among drivers with access to mobile devices, but hands-free, text-to-speech capability reduces in-cab driver distraction.
- Applications like Omnitracs' In-Cab Navigation on the MCP50 allow dispatchers to deliver audible information and turn-by-turn directions so drivers don't need to take their eyes off the road.
- Drivers are alerted to critical-event occurrences such as hard braking, lane departure, and roll stability, providing an auditory reminder to drive safely.
- Omnitracs' proprietary In-Motion User Interface limits driver interaction with the mobile computing platform, preventing drivers from typing, sending, or reading exchanges on the display unit while the vehicle is in motion.

ONE WAY

14% | Failure to check blind spots 6% | Aggressive driving 5% | Following too closely

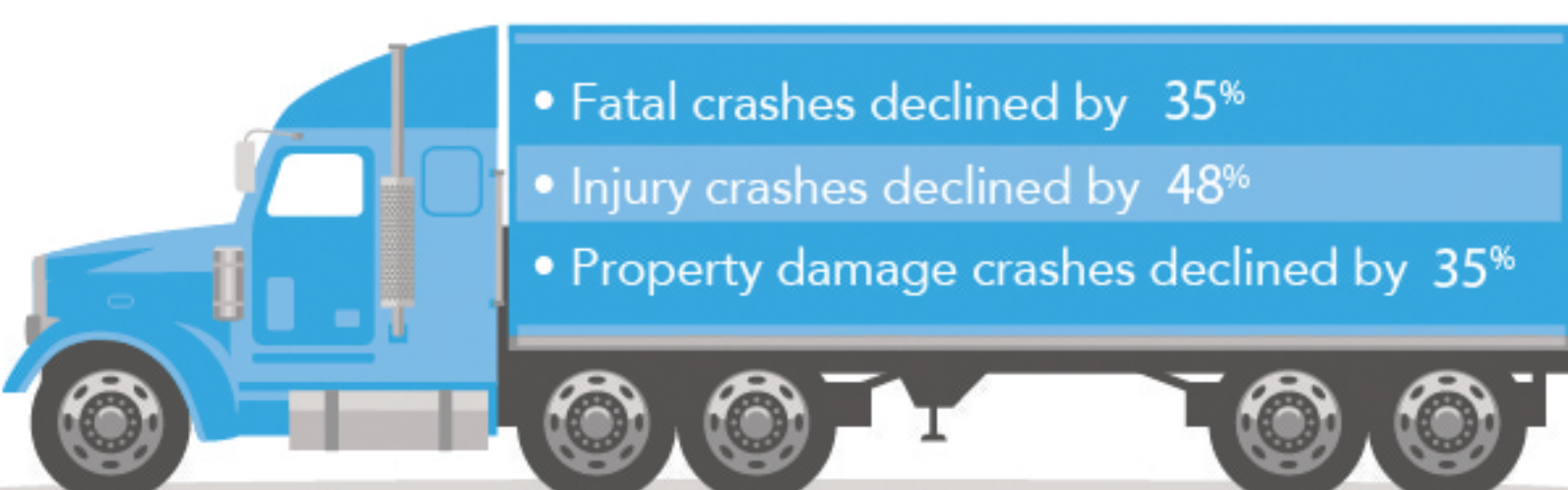
## EVOLUTION OF LONG-HAUL SAFETY

New technologies and regulations that focus on keeping drivers safe have led to significant improvements in fleet safety in North America.

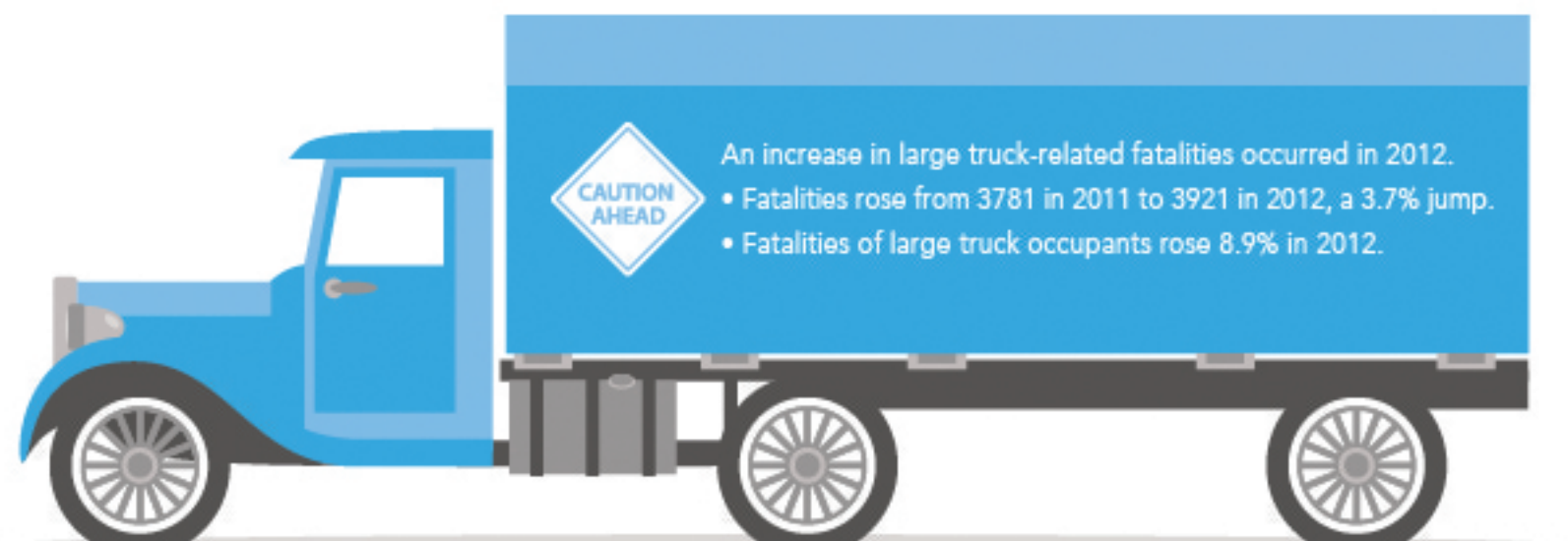
Some fleets report a 20% reduction of critical events after implementing Critical Event Reporting technology.



From 1999 to 2009, the number of large trucks involved in crashes significantly decreased:



Total fatalities in 2011 were the lowest they've been since 1949, but there's still more work to do...



## Sources

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6. <http://www.nrd.nhtsa.dot.gov/Pubs/811856.pdf>

To learn more about how mobile fleet management can help fleet improve safety, visit [www.omnitracs.com](http://www.omnitracs.com).



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