

## Threshold Values

### What is a carrier's threshold?

A carrier's threshold is the safety performance standard (violation rate) that a carrier is expected to not exceed, based on industry performance data. It is measured individually for collisions, convictions and CVSA inspections and combined to determine an overall violation rate. The threshold is expressed in points accumulated in a sliding 24-month period. A carrier's collision and conviction thresholds depend on its rate of kilometres travelled per month in Canada, whereas the carrier's inspection threshold depends on the number of units inspected (drivers and vehicles) in the past 24 months. (See Appendix D for the Table of Threshold Values.)

The overall threshold combines three individual thresholds: collision threshold, conviction threshold and inspection threshold in the ratios of 2:2:1. These individual thresholds are shown on the Carrier CVOR Abstract (Level II) (see Appendix C).

### Development of performance measures in the CVOR System

The Ministry analysed the on-road safety performance of a large sample of carriers operating in Ontario during the two-year period from July 1, 2003 until June 30, 2005. Collision rates and safety related conviction rates for each carrier were plotted and compared for carriers with varying rates of travel, resulting in a standard that identifies acceptable levels of performance. A similar standard was developed for vehicle inspection performance based on frequency of inspection. Performance standards were determined based on monthly kilometric travel. See Appendix D for the Table of Threshold Values.

An overall performance level or threshold was established for each carrier by weighting the collision, conviction and inspection performances in the ratios of 2:2:1. In other words, collisions and convictions are given double the weight of inspections in determining an operator's overall violation rate (performance level).

See Appendix H for the threshold formulas and sample calculations of kilometric rate of travel, violation rates, and percentages of threshold.

Notes: