

## Highways Agency Performance Specification 2013-14 – Technical Note

Field	Notes
<b>Short Title</b>	The Mean Incident Impact Duration on Motorways for Specific Incident Types – National Level.
<b>Performance Specification Reference</b>	Output 7 – PS 4.13 (National level)
<b>Requirement / Output Details</b>	<p>The network operator is expected to reduce the overall mean duration of incidents on motorways against 2012-13 figures. The network operator should therefore report on and target reductions in the mean incident durations nationally for the following incident types on motorways:</p> <ul style="list-style-type: none"> <li>• Breakdowns in live lanes</li> <li>• Debris</li> <li>• Road traffic Collisions – Non injury</li> <li>• Road traffic Collisions – Injury</li> <li>• Police Investigation Road Traffic Collisions</li> </ul>
<b>Technical Definition</b>	<p>This measure is based on the frequency and mean duration of lane impact incidents on the Highways Agency's (HA's) motorway network. There are 5 specific incident types measured:</p> <ol style="list-style-type: none"> <li>1. Breakdowns Live Lane</li> <li>2. Debris</li> <li>3. Road Traffic Collisions - Non Injury</li> <li>4. Road Traffic Collisions - Injury</li> <li>5. Police Investigation Road Traffic Collisions</li> </ol> <p>The measures include any incident that results in a lane impact, whether the HA or Police attend or not.</p> <p>A Lane impact would result from any incident where the capacity (of one or more lane) has been reduced or where there is deemed to be a risk to a road user such as debris.</p>
<b>Rationale</b>	<p>This measure is intended to help:</p> <ul style="list-style-type: none"> <li>• Reduce delays and congestion;</li> <li>• Ensure that the road affected by an incident is restored to the required operational standard as efficiently as possible;</li> <li>• Support the CLEAR initiative;</li> <li>• Return traffic flow and the infrastructure to expected pre-incident levels and standards.</li> </ul>

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<b>Formula</b>	<p>The mean average incident impact duration is calculated by summing the total duration of the impact of incidents and dividing by the number of incidents in question.</p> <p><u>Example (Illustrative)</u></p> <p>The following are fifteen incident duration times in minutes:</p> $\frac{\text{Total duration of incidents}}{\text{Number of incidents}}$ $\frac{331}{15}$ <p>3,13,7,5,21,23,39,23,40,23,14,12,56,23,29</p> <p><b>Mean Incident Duration =</b></p> $=$ $= 22.1 \text{ minutes}$
<b>Start Date</b>	April 2013.
<b>Performance</b>	The indicator should reduce, indicating motorway incident clear up times are improving.
<b>Behavioural Impact</b>	This indicator will focus the Traffic Officer service on improvements in incident clear up times and support multi partnership working as part of CLEAR. It is not anticipated that there will be any perverse behavioural impacts.
<b>Comparability</b>	Clear up times could be compared on comparable motorway networks outside of England.
<b>Collection Frequency</b>	Data collected and monitored on a monthly basis.

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<b>Clearance Process</b>	Prior to any reporting or analysis of this data an internal audit is conducted into the incidents that recorded an impact duration of 5 hours or more. Once the information is published onto the DFT website via the HA web team, any update or removal of published data will comply with DFT information policy.
<b>Time Lag</b>	1 month.
<b>Data Source</b>	HA's Command and Control (C&C) system from each Regional Control Centre (RCC).
<b>Type of Data</b>	Management information.
<b>Robustness and Data Limitations</b>	<p>The measures are based on data from the Command &amp; Control Incident Recording system used in the Highways Agency.</p> <p>The data collected depend on human intervention to log the start and end of an incident, and to enter the correct codes to identify the incident type, but this is part of established working practices and is a simple process so should not suffer from significant robustness issues. There is an audit process in place to check the accuracy of the recorded duration of those impact lasting 5 hours or more prior to reporting on the data.</p>
<b>Collecting Organisation</b>	Highways Agency.
<b>Return Format</b>	<p>Minutes (incident impact duration).</p> <p>Number of incidents (will also be presented).</p>
<b>Geographical Coverage</b>	England.
<b>How Indicator Can be Broken Down</b>	HA Regions.