

## Rural Traffic Management Center Performance Measures

### Transportation Management Center Activity Logging

Caltrans has an extremely diverse network of Traffic Management Centers (TMCs) in order to match the diversity of the geography and demographics of the state itself. Current practice in each TMC is to record activities using the Transportation Management Center Activity Logging System (TMCAL). This system records all operator activities, in real-time, at every traffic management center in the state. These activities include all operator communications with maintenance, safety, and law enforcement personnel. They also include all operator interactions with field elements, including variable message signs, highway advisory radios and chain control signage. All incidents are also tracked, from initial detection, to the arrival of personnel on site, to clearance. All activities are associated with an incident, so the impact of each activity on the incident can be analyzed. Additionally, all incidents and activities are overlaid over actual traffic and congestion conditions.

### Incident Playback

In order to illustrate these concepts, Caltrans developed a new activity logging management system, called the Traffic Management Center Activity Logging System (TMCAL). The operator communicates with the central Rural Traffic Management Center in the field. There are currently several enhancements in transportability, usability, and user interface improvements. These enhancements will improve the efficiency and effectiveness of the operator’s ability to manage incidents and implement strategies.

### Google Earth Integration

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### What is PeMS?

PeMS is a traffic data collection, processing and analysis tool to assist traffic engineers in assessing the performance of their freeway system. PeMS receives information from most of the intelligent transportation systems (ITS) to create detailed, real-time maps of traffic incidents. This information is then used to make informed decisions about investments in their transportation system, by leveraging ITS data they already collect.