

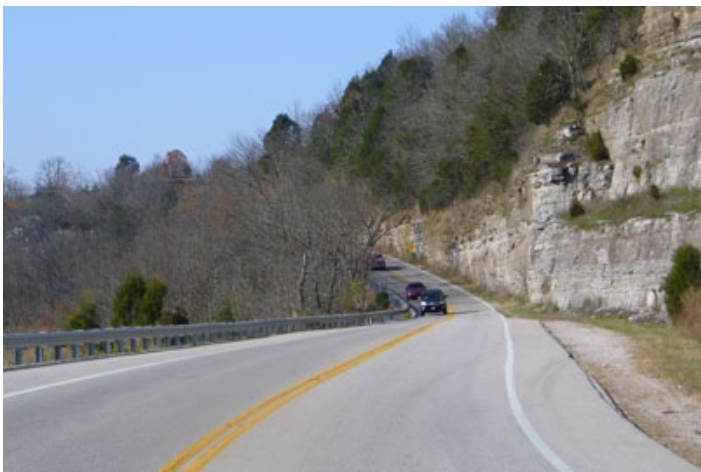
Roadway Departure Safety Implementation Plans

Kentucky Implements Roadway Departure Safety Plan with Rumble Stripes and Friction Treatments.

Roadway departure crashes account for the majority of highway fatalities in the United States. A roadway departure crash is defined as a non-intersection crash which occurs after a vehicle crosses an edge line or a center line, or otherwise leaves the traveled way.

The Problem in Kentucky

In Kentucky, roadway departure crashes account for more than 60 percent of all traffic-related deaths. Roadway departure crashes resulted in an average of 628 fatalities annually from 2005 to 2009.



Kentucky's roadways include horizontal and vertical curves and varying shoulder widths.

funding needed to achieve a 15 percent reduction in roadway departure fatalities. When implemented, this will help Kentucky save up to 65 lives per year.

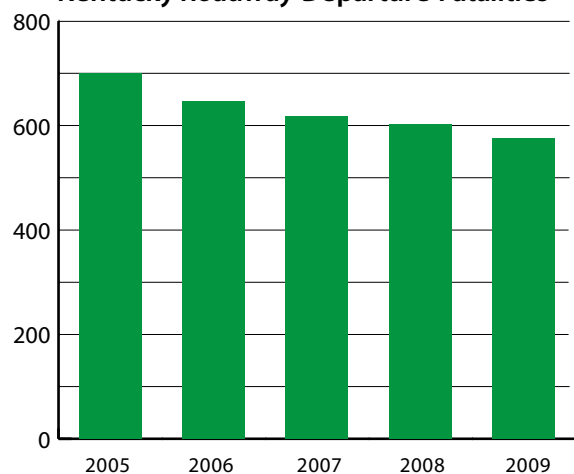
The Implementation Plan developed for KYTC included traditional treatments at high crash locations, systematic treatments on corridors with a moderate level of crashes, and comprehensive safety solutions incorporating law enforcement and education to reduce the number and severity of roadway departure crashes.

Customized Solution

FHWA first provided a technical training session to the Kentucky Transportation Cabinet (KYTC) and other traffic safety stakeholders. The training included a discussion of recommended roadway departure countermeasures.

The second event was an Implementation Plan Workshop tailored to the roadway departure safety needs of Kentucky. FHWA developed a customized data analysis package and identified a set of cost-effective countermeasures, deployment levels, and

Kentucky Roadway Departure Fatalities



Source: Kentucky Strategic Highway Safety Plan

Kentucky's Key First Steps

Kentucky used the customized Implementation Plan and local knowledge of safety problems and effective countermeasures to begin implementing solutions to reduce roadway departure crashes.

Center Line Rumble Strips - Retrofit

Approximately 38 miles of center line rumble strips have been installed on existing two-lane roads with 11 ft. or wider lanes. KYTC plans to install more than 100 additional miles of retrofit center line rumble strips in 2011.

Rumble Strips/Stripes on Resurfacing Projects

Kentucky has incorporated rumble strips and rumble stripes into its pavement resurfacing projects, including:

- 28 miles of shoulder rumble strips;
- 240 miles of edge line rumble stripes; and
- 200 miles of center line rumble stripes.

Kentucky is taking advantage of the low cost of rumble strips, especially as add-ons to existing surface overlay projects. Costs to date have been much lower than originally estimated, allowing KYTC to plan for more than 200 additional miles of rumble strips and rumble stripes on resurfacing projects in 2011.

High Friction Surface Treatments

Increasing friction on roadways with a history of wet weather crashes has been proven to yield significant safety benefits. Kentucky has selected 32 sites to apply high friction surface treatments.



KYTC is installing hundreds of miles of rumble strips/stripes in conjunction with its pavement resurfacing program.



KYTC installed high friction surface treatments at locations with a history of wet roadway departure crashes.

For More Information

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