**Bicyclist Safety Performance Functions for a U.S. City**

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**ABSTRACT**

Efforts have intensified to apply a more evidence-based approach to traffic safety. One such effort is the Highway Safety Manual, which provides typical safety performance functions (SPFs) for common road types. Unfortunately, the manual provides no SPFs for bicyclists, despite disproportionately high fatalities among this group. In this paper, a method for creating city-specific, bicycle SPFs is presented and applied to Boulder, Colorado, the first time a bicycle SPF has been created for a U.S. city. Such functions provide a basis for both future investigations into safety treatment efficacy and for prioritizing intersections to better allocate scarce funds for bicycle safety improvements. The SPFs demonstrate that intersections with more cyclists have fewer collisions per cyclist, illustrating that cyclists are safer in numbers.

For a copy of the complete paper, please, contact Krista Nordback at krista.nordback@ucdenver.edu. We are happy to send you a copy of the updated paper.