

Key Intersection Safety Resources

Intersections are critical components of the highway network. They are essentially “planned points of conflict” where all road users—passenger cars, heavy trucks, motorcycles, bicycles, and pedestrians—must be assigned the right-of-way in an orderly and safe fashion when moving through intersections. The many complexities and safety issues associated with intersections are covered in the publications, CDs, training courses, and technical assistance programs offered through the Federal Highway Administration (FHWA) listed below.

CURRENT PUBLICATIONS AND MULTIMEDIA PRODUCTS

- *2002 National Agenda for Intersection Safety*
- *Roadway Safety Tools for Local Agencies – NCHRP Synthesis 321*
- *Low Cost Local Road Safety Solutions* (ATSSA, NACE)
- *Common Sense Solutions to Intersection Safety Problems – LTAP Training Program CD*
- *Roundabouts: An Informational Guide* (FHWA-RD-00-067)
- Roundabouts brochure: *Roundabouts: A Safer Choice* (FHWA-SA-08-006)
- *Red Light Camera Systems Operational Guidelines* (FHWA-SA-05-002)
- *Red Light/Green Light* video & CD
- *Red Light Running PSAs* (audio and video)
- *Safety Evaluation of Red Light Cameras* (FHWA-HRT-05-048)
- *Making Intersections Safer: A Toolbox of Engineering Countermeasures to Reduce Red Light Running*
- *Signalized Intersections: Informational Guide* (FHWA-RD-00-067)
- *Field Guide for Inspecting Signalized Intersections to Reduce Red-Light Running* (FHWA-SA-05-008)
- *Innovative Intersection Safety Improvement Strategies and Management Practices: A Domestic Scan* (FHWA-SA-06-016)
- *Toolbox on Intersection Safety and Design*
- *Intersection Safety Issue Briefs*
- NCHRP Report 500, Guidance for Implementation of the AASHTO Strategic Highway Safety Plan: Volume 5: *A Guide for Addressing Unsignalized Intersection Collisions* and Volume 12: *A Guide for Reducing Collisions at Signalized Intersections*
- Guide Sheets for NCHRP Report 500, Volumes 5 and 12 countermeasures
- Brochure on NCHRP Report 500, Volumes 5 and 12 countermeasures (FHWA-SA-08-008)
- Summary Report on Two Low-Cost Safety Concepts for Two-Way Stop-Controlled, Rural Intersections on High-Speed Two-Lane, Two-Way Roadways (FHWA-HRT-08-063)
- *Synthesis of the Median U-turn Intersection Treatment, Safety and Operational Benefits* (FHWA-HRT-07-033 – Tech Brief)
- *Traffic Performance of Three Typical Designs of New Jersey Jughandle Intersections* (FHWA-HRT-07-032 – Tech Brief)
- *Safety Assessment of Interchange Spacing on Urban Freeways* (FHWA-HRT-07-031 - Tech Brief)
- *Railroad-Highway Grade Crossing Handbook* (FHWA-SA-02-007)
- *Sample Intersection Safety Action Plan*
- *Comprehensive Intersection Resource Library Version 3* (FHWA-SA-06-001 CD)
- *Desktop Reference for Crash Reduction Factors* (FHWA-SA-07-015)
- *Interchange Safety Analysis Tool (ISAT) Users Manual* (FHWA-HRT-07-045)
- *Surrogate Safety Assessment Model (SSAM) Software Users Manual* (FHWA-HRT-08-050)
- *Surrogate Safety Assessment Model* (FHWA-HRT-08-049 – Tech Brief)



SERVICES

- FHWA provides technical assistance to States in the development of intersection safety action plans.
- LTAP centers provide FHWA-funded technical assistance to State and local agencies in the analysis of crash data.
- FHWA conducts quarterly safety web conferences involving intersection safety.

TRAINING

- *Designing and Operating Intersections for Safety* (3-days – FHWA-NHI-380074)
- *Signalized Intersection Guidebook Workshop* (1-day – FHWA-NHI-380078)
- *Intersection Safety Workshop* (1-day – FHWA-NHI-380077)
- *Roundabouts Informational Guide Workshop* (1-day)
- *Railroad-Highway Grade Crossing Improvement Program* (FHWA-NHI-380005)
- *Interactive Highway Safety Design Model* (FHWA-NHI-380071)
- *Low Cost Safety Improvements Workshop* (FHWA-NHI-380076)

FHWA PUBLICATIONS AND ACTIVITIES PLANNED OR UNDER DEVELOPMENT

- *Strategic Intersection Safety Program Guide*
- Technical summaries on roundabouts, mini-roundabouts, access management around intersections, and new technologies
- Standard presentations on intersection safety, signalized intersections, unsignalized intersections, roundabouts, and red-light running
- Updated *National Agenda for Intersection Safety*
- Informational report on six alternative intersection/interchange treatments and accompanying NHI workshop
- Low-cost safety enhancements at stop-controlled and signalized intersections
- Market-ready status of advanced/ITS technologies for intersection safety
- Updated *Intersection Safety Issue Briefs*
- Updated *Comprehensive Intersection Resource Library CD (Version 4)*
- Intersection safety “success stories, technical summaries, articles, trading cards, and PowerPoint slides
- *Roundabouts* CD/DVD for decision makers and others
- Updated red-light running portion of the Office of Safety Web site
- Updated NHI training courses on intersection safety and operations and on rail-highway grade crossing safety
- Identification of best practices in the five States with the best intersection safety records
- Enhanced SSAM to compare the safety of alternative intersection treatments and street networks
- Innovative alternative freeway/expressway interchange treatments
- Evaluation of mini-roundabouts
- Evaluation of new stop-controlled intersection speed-reduction treatments

For additional information on intersection-related material, visit our Safety Web site at: <http://safety.fhwa.dot.gov>, or contact Ed Rice, Intersection Safety Team Leader, at (202) 366-9064 or Ed.Rice@dot.gov.



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