



## EDC-5 Focus on Reducing Rural Roadway Departures Resources



### Overarching:

- FoRRRwD Overview Video <https://youtu.be/WfdBrrl0WwU>
- FoRRRwD Trading Cards <https://safety.fhwa.dot.gov/forrrwd/TradingCards/>
- FoRRRwD 10x10 Exhibit and 4 Roll-Up Banner FHWA can check out of Report Center: [http://our/office/fhwa.research/exhibits/PublishingImages/FoRRRwD\\_2019.JPG](http://our/office/fhwa.research/exhibits/PublishingImages/FoRRRwD_2019.JPG)

### Systemic Safety

- Systemic Safety Project Selection Tool <https://safety.fhwa.dot.gov/systemic/fhwasa13019/>
- Applying the Systemic Approach on Local Roads [https://safety.fhwa.dot.gov/local\\_rural/training/fhwasa14081/systemic\\_app.pdf](https://safety.fhwa.dot.gov/local_rural/training/fhwasa14081/systemic_app.pdf)
- Quick Start Guide on Systemic Safety Analysis <https://safety.fhwa.dot.gov/systemic/fhwasa17009/fhwasa17009.pdf>
- Take Action Before a Crash Occurs: Use a Systemic Approach to Safety <https://safety.fhwa.dot.gov/systemic/fhwasa17010/fhwasa17010.pdf>
- Potential Risk Factors flyer [https://safety.fhwa.dot.gov/systemic/pdf/FHWA\\_SystemicApproach\\_PotentialRiskFactors.pdf](https://safety.fhwa.dot.gov/systemic/pdf/FHWA_SystemicApproach_PotentialRiskFactors.pdf)
- Case Studies
  - Kentucky systemic local horizontal curves <https://safety.fhwa.dot.gov/systemic/ky.cfm>
  - Minnesota DDSA on local roads [https://www.fhwa.dot.gov/innovation/everydaycounts/edc\\_4/pdf/case\\_study\\_mn\\_oct2014.pdf](https://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/pdf/case_study_mn_oct2014.pdf)
  - Minnesota DDSA video <https://www.youtube.com/watch?v=iVds3AWWqbk>
  - Missouri DDSA for pavement markings [https://www.fhwa.dot.gov/innovation/everydaycounts/edc\\_4/pdf/case\\_study\\_mo\\_oct2014.pdf](https://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/pdf/case_study_mo_oct2014.pdf)
  - Nebraska systemic county sign installation [https://rspcb.safety.fhwa.dot.gov/noteworthy/html/localrural\\_ne.aspx?id=14](https://rspcb.safety.fhwa.dot.gov/noteworthy/html/localrural_ne.aspx?id=14)
  - New York systemic lane departure on State system <https://safety.fhwa.dot.gov/systemic/ny.cfm>
  - Ohio Township systemic sign program [https://rspcb.safety.fhwa.dot.gov/noteworthy/html/localrural\\_oh3.aspx?id=148](https://rspcb.safety.fhwa.dot.gov/noteworthy/html/localrural_oh3.aspx?id=148)
  - Thurston County, WA systemic <https://safety.fhwa.dot.gov/systemic/tc.cfm>
- DDSA Infographic – How Healthy is Your Road System? [https://www.fhwa.dot.gov/innovation/everydaycounts/edc\\_4/ddsa\\_resources/ddsa\\_systemic\\_analysis.pdf](https://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/ddsa_resources/ddsa_systemic_analysis.pdf)
- Reliability of Safety Mgmt Methods – Systemic Safety Programs <https://safety.fhwa.dot.gov/rsdp/downloads/fhwasa16041.pdf>
- Video: DDSA in Safety Management <https://www.youtube.com/watch?v=l6gl6sRbiuU>
- Systemic Approach to Safety Banner <http://our/office/fhwa.research/exhibits/PublishingImages/Safety6-%20Systemic%20Approach.jpg>
- Banner – How Healthy is Your Road System? [http://our/office/fhwa.research/exhibits/PublishingImages/Safety\\_11.png](http://our/office/fhwa.research/exhibits/PublishingImages/Safety_11.png)
- DDSA Better Targeted Investments Banner [http://our/office/fhwa.research/exhibits/PublishingImages/ddsa\\_4.png](http://our/office/fhwa.research/exhibits/PublishingImages/ddsa_4.png)
- Improving Speed Management Using a Systemic Approach [https://safety.fhwa.dot.gov/speedmgt/ref\\_mats/fhwasa18051/](https://safety.fhwa.dot.gov/speedmgt/ref_mats/fhwasa18051/)

### Local Road Safety Plans and other Action Plans

- Developing Safety Plans: A Manual for Local and Rural Road Owners [https://safety.fhwa.dot.gov/local\\_rural/training/fhwasa12017/](https://safety.fhwa.dot.gov/local_rural/training/fhwasa12017/)
- Local Road Safety Plan flyer [https://safety.fhwa.dot.gov/local\\_rural/training/fhwasa14088/local\\_rsp.pdf](https://safety.fhwa.dot.gov/local_rural/training/fhwasa14088/local_rsp.pdf)
- Proven Safety Countermeasure [https://safety.fhwa.dot.gov/provencountermeasures/local\\_road/](https://safety.fhwa.dot.gov/provencountermeasures/local_road/)
- LRSP Infographic – LRSPs Your Map to Safer Roadways [https://www.fhwa.dot.gov/innovation/everydaycounts/edc\\_4/ddsa\\_resources/lrsp.pdf](https://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/ddsa_resources/lrsp.pdf)
- LRSP Video – Local Road Safety Plans <https://www.youtube.com/watch?v=Wzdm798MoI8>
- LRSP Banner [http://our/office/fhwa.research/exhibits/PublishingImages/Safety\\_12.png](http://our/office/fhwa.research/exhibits/PublishingImages/Safety_12.png)
- Kentucky RwdSIP [https://safety.fhwa.dot.gov/roadway\\_dept/strat\\_approach/fhwasa19006/](https://safety.fhwa.dot.gov/roadway_dept/strat_approach/fhwasa19006/)

***“30 people will die today in a rural roadway departure. Let’s save the people behind the numbers.”***



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### Countermeasures

- Proven Countermeasures – Making our Roads Safer – One Countermeasure at a Time 2019 Michigan Ed  
<https://mdotjboss.state.mi.us/TSSD/getTSDocument.htm?docGuid=ddb32e1d-ed1b-4b23-a234-18eef0b2a0b0&fileName=Making%20our%20Roadways%20Safer%20One%20Countermeasure%20at%20a%20Time%202019%20Michigan%20Edition.pdf>
- Horizontal Curves – Low Cost Treatments for Horizontal Curve Safety 2016  
[https://safety.fhwa.dot.gov/roadway\\_dept/countermeasures/horcurves/fhwasa15084/fhwasa15084.pdf](https://safety.fhwa.dot.gov/roadway_dept/countermeasures/horcurves/fhwasa15084/fhwasa15084.pdf)
- Low-Cost Safety Improvement Videos
  - Enhanced delineation on horizontal curves: <https://www.youtube.com/watch?v=4riUd1MJ5Yw>
  - Longitudinal Pavement Markings: [https://www.youtube.com/watch?v=ITOsIqaG\\_0A](https://www.youtube.com/watch?v=ITOsIqaG_0A)
  - Unpaved Roads: <https://www.youtube.com/watch?v=-Lkiz8cEH8>
- Friction
  - Videos - <https://www.youtube.com/watch?v=HVzS-VkABPE> (6min)  
<https://www.youtube.com/watch?v=V860pC6ncAY> (21 min)
  - HFST Curve Selection and Installation Guide  
[https://safety.fhwa.dot.gov/roadway\\_dept/pavement\\_friction/faqs\\_links\\_other/hfst\\_guide/](https://safety.fhwa.dot.gov/roadway_dept/pavement_friction/faqs_links_other/hfst_guide/)
  - Specifications  
[https://www.fhwa.dot.gov/exit.cfm?link=https://bookstore.transportation.org/collection\\_detail.aspx?ID=149](https://www.fhwa.dot.gov/exit.cfm?link=https://bookstore.transportation.org/collection_detail.aspx?ID=149)
  - 12 Case Studies and Noteworthy Practices  
[https://safety.fhwa.dot.gov/roadway\\_dept/pavement\\_friction/case\\_studies\\_noteworthy\\_prac/](https://safety.fhwa.dot.gov/roadway_dept/pavement_friction/case_studies_noteworthy_prac/)
  - FAQs - [https://safety.fhwa.dot.gov/roadway\\_dept/pavement\\_friction/faqs\\_links\\_other/hfst\\_faqs/](https://safety.fhwa.dot.gov/roadway_dept/pavement_friction/faqs_links_other/hfst_faqs/)
- Rumbles
  - Safety Benefits - [https://safety.fhwa.dot.gov/roadway\\_dept/pavement/rumble\\_strips/safety.cfm](https://safety.fhwa.dot.gov/roadway_dept/pavement/rumble_strips/safety.cfm)
  - Accommodating All Users – [Fact Sheet](#) / [Implementation Guide](#)  
[https://safety.fhwa.dot.gov/roadway\\_dept/pavement/rumble\\_strips/accommodating-all-users.cfm](https://safety.fhwa.dot.gov/roadway_dept/pavement/rumble_strips/accommodating-all-users.cfm)
  - Pavements and Maintenance – [Fact Sheet](#) / [Implementation Guide](#)  
[https://safety.fhwa.dot.gov/roadway\\_dept/pavement/rumble\\_strips/pavement-and-maintenance.cfm](https://safety.fhwa.dot.gov/roadway_dept/pavement/rumble_strips/pavement-and-maintenance.cfm)
  - Mitigating Noise - [Fact Sheet](#) / [Implementation Guide](#)  
[https://safety.fhwa.dot.gov/roadway\\_dept/pavement/rumble\\_strips/mitigating-noise.cfm](https://safety.fhwa.dot.gov/roadway_dept/pavement/rumble_strips/mitigating-noise.cfm)
  - Decision Support Guide  
[https://safety.fhwa.dot.gov/roadway\\_dept/pavement/rumble\\_strips/fhwasa16115/fhwasa16115.pdf](https://safety.fhwa.dot.gov/roadway_dept/pavement/rumble_strips/fhwasa16115/fhwasa16115.pdf)
  - Technical Advisories
    - Edge Line and Shoulder  
[https://safety.fhwa.dot.gov/roadway\\_dept/pavement/rumble\\_strips/t504039/t504039.pdf](https://safety.fhwa.dot.gov/roadway_dept/pavement/rumble_strips/t504039/t504039.pdf)
    - Centerline  
[https://safety.fhwa.dot.gov/roadway\\_dept/pavement/rumble\\_strips/t504040/t504040.pdf](https://safety.fhwa.dot.gov/roadway_dept/pavement/rumble_strips/t504040/t504040.pdf)
- SafetyEdge<sup>SM</sup>
  - Safety Benefits - <https://safety.fhwa.dot.gov/safetyEdge/safety.cfm>
  - Design and Construction Guide  
[https://safety.fhwa.dot.gov/safetyEdge/design\\_constr\\_guide/se\\_design\\_constr\\_guide.pdf](https://safety.fhwa.dot.gov/safetyEdge/design_constr_guide/se_design_constr_guide.pdf)
  - Guide Specification - <https://safety.fhwa.dot.gov/safetyEdge/gsse.cfm>
  - Field Reports - [https://safety.fhwa.dot.gov/safetyEdge/design\\_const.cfm](https://safety.fhwa.dot.gov/safetyEdge/design_const.cfm)
  - Video - <https://safety.fhwa.dot.gov/safetyEdge/multimedia.cfm>
  - FAQs - <https://safety.fhwa.dot.gov/safetyEdge/faqs.cfm>
- Clear Zones
  - Noteworthy Practices – Roadside Tree and Utility Pole Management  
[https://safety.fhwa.dot.gov/roadway\\_dept/countermeasures/safe\\_recovery/clear\\_zones/fhwasa16043/fhwasa16043.pdf](https://safety.fhwa.dot.gov/roadway_dept/countermeasures/safe_recovery/clear_zones/fhwasa16043/fhwasa16043.pdf)

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