

# Wide Edge Lines



Standard Edge Lines



Wide Edge Lines

**Executive Committee for Highway Safety**

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# TTI Draft Research Results

- Safety Effects of Wider Lines on Rural, Two-Lane Highways

**Table 9. Percent crash reduction estimates for wider edge lines on rural, two-lane highways based on the crash data from three States.**

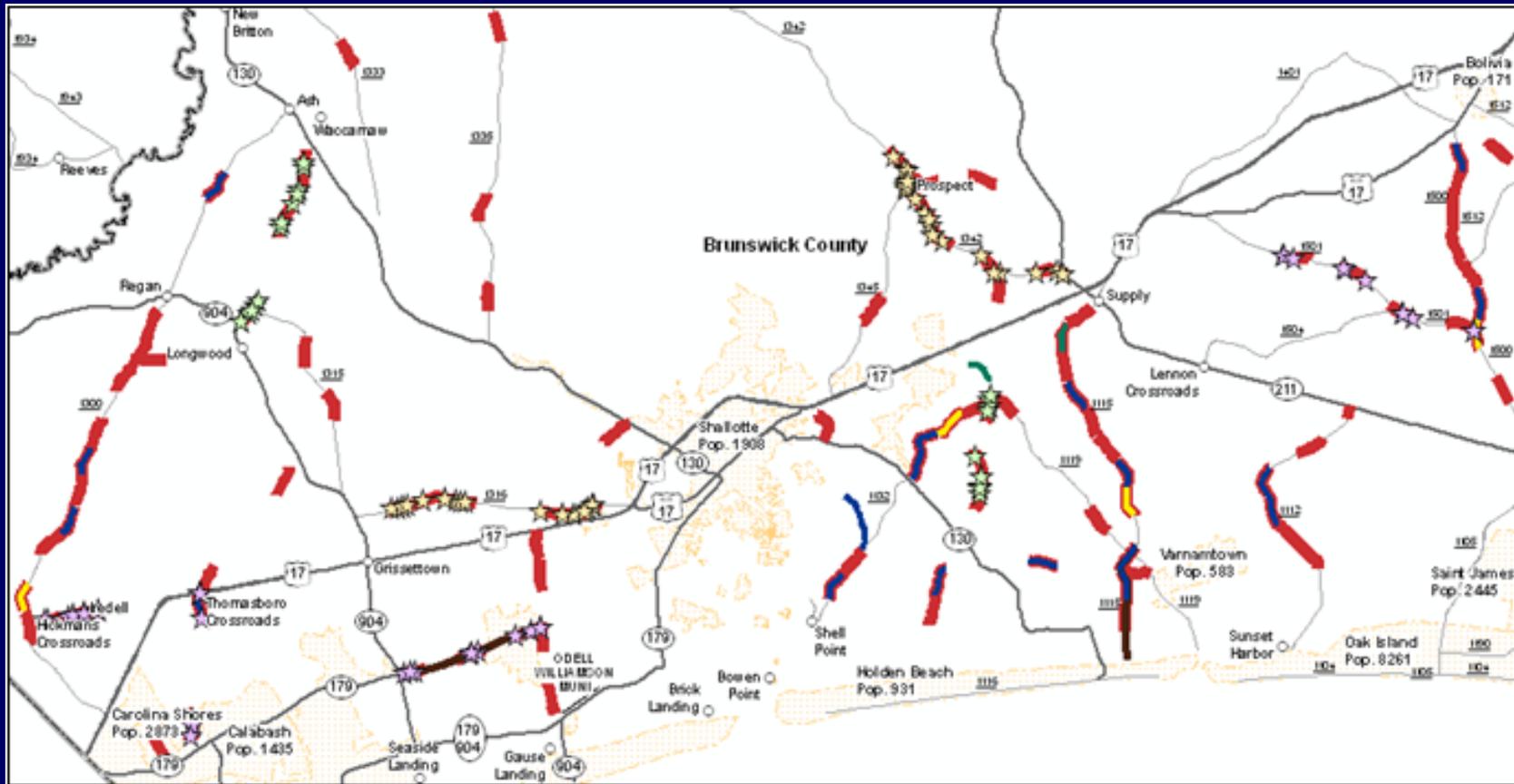
Crash Type	Percent Crash Reduction				
	KS (Analysis 1)	KS (Analysis 2)	MI (Analysis 1)	MI (Analysis 2)	IL
Total	17.5	15.0	27.4	19.4	30.1
Fatal Injury	36.5	24.4	15.4	16.1	37.7
PDO	12.3	8.6	30.5	19.6	23.9
Day	28.6	18.6	20.3	12.0	29.1
Night	3.7	-2.4	30.7	18.8	29.9
Daytime Fatal Injury	41.5	22.7	8.2	23.0	36.0
Nighttime Fatal Injury	12.7	5.8	22.6	-5.8	34.2
Wet	22.9	17.2	67.2	62.6	34.7
Wet Night	24.3	24.9	76.9	79.2	35.7
Single Vehicle	27.0	28.7	30.0	18.7	37.0
Single Vehicle Wet			73.8	65.9	32.8
Single Vehicle Night	18.4	14.1	29.4	18.0	29.5
Single Vehicle Fatal Injury	36.8	30.5	10.0	-1.9	42.2
Single Vehicle Night Fatal Injury	18.7	20.3	9.7		36.3
Older Driver					24.1
Fixed Object	19.0	22.4			29.5

# NC Road Departure Program

- Identify Potential Routes to be treated with Wide Edge Lines
- NCDOT Divisions & Regions review list & provide feedback
- Implement specified marking on identified route
  - Will be funded with Federal Safety Funds
- Monitor & Evaluate for results

# NC Lane Departure Program

- Potential Countermeasures by 3000' Segments (Brunswick Co.)



- 'Routes with 10-14 Crashes' Events
- ☆ 'Routes with 15-19 Crashes' Events
- ☆ 'Routes with 20-24 Crashes' Events
- ☆

- '1st Curve Treatment Locations' Events
- '2nd Curve Treatment Locations' Events
- '3rd Curve Treatment Locations' Events



- 'Center Rumble Locations' Events
- 'Edge Rumble Locations' Events
- 'Wide Shoulder Treatment' Events

# Wider Edge Line Implementation

For Selected Routes:

- Existing Markings to be removed
- Each selected route will be specified as receiving 6" or 4"
- Each selected route will be specified as receiving Standard or HFE
- This will include both edge and center line markings
- Long Life marking required: No paint – only Thermo or Poly