

- ➡ Over 63,000 miles of public road
- ➡ 12,000 miles of state maintained highway

<b>New Mexico usRAP Overview</b>	<b>Partners</b>	New Mexico DOT, AAAFTS	<b>Facts and Figures</b>
	<b>usRAP network</b>	Interstate, US, and State routes	
	<b>usRAP road sections</b>	2,000 sections (latest data period 2002-2006)	
	<b>Length of usRAP network</b>	11,300 road miles	

**Statewide totals for rural and urban state highways**

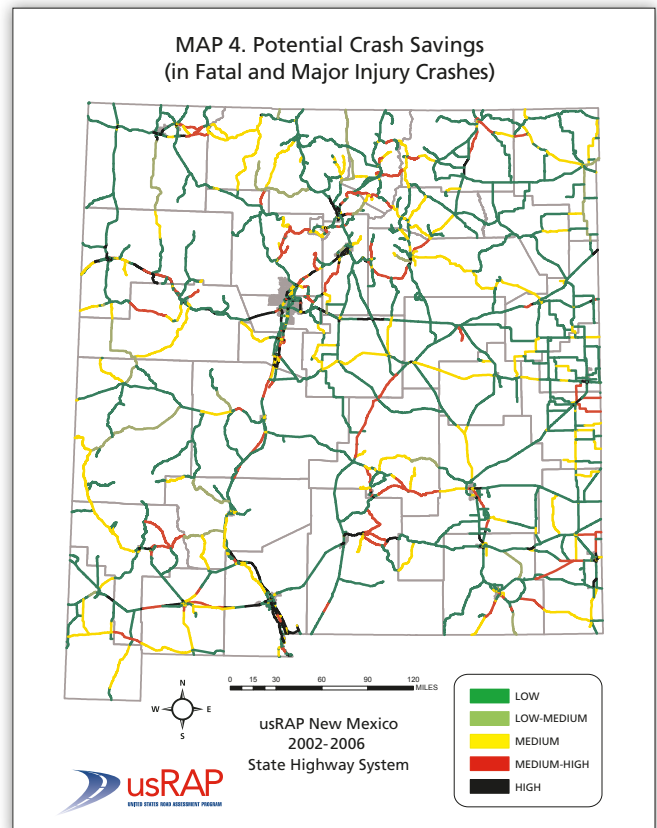
- 17 billion annual veh-mi of travel (VMT)
- 5,585 fatal and serious injury crashes

**Statewide averages for analysis sections on rural state highways**

- Average length = 9.1 mi
- AADT = 2,900 veh/day
- Fatal and serious injury crashes = 0.63 crashes/section/year
- Fatal and serious injury crash density = 0.07 crashes/mi/year
- Average crash rate = 6.59/100MVMT

## Risk Mapping

In New Mexico, state highways in both rural and urban areas were included in the pilot study scope. As an example, usRAP Map 4 (illustrated at right) shows the potential number of fatal and serious injury crashes saved per mile in five years if crash rate per 100 million vehicle-miles traveled were reduced to the average crash rate for similar roads. Maps of this type can be used to identify locations that may provide a potential opportunity for safety improvement through infrastructure modifications or enforcement programs.



## Summary Risk Mapping Data

NEW MEXICO RURAL STATE HIGHWAY SYSTEM ROADS 2002-2006									
Road Type	Sections	Road Miles	Average Length (mi)	Average AADT (veh/day)	Annual VMT (Billion)	Fatal & Serious Injury Crashes			
						Total Frequency	Annual Frequency	Annual Density	Annual Rate (HMVM)
Interstate/Freeway	104	851	8.2	15,237	4.7	1,306	2.51	0.31	5.52
Multilane Divided	144	850	5.9	6,334	2.0	553	0.77	0.13	5.63
Multilane Undivided	65	105	1.6	6,246	0.2	80	0.25	0.15	6.66
Two-lane Undivided	820	8,479	10.3	1,249	3.9	1,618	0.39	0.04	8.37
<b>Total</b>	<b>1,133</b>	<b>10,285</b>	<b>9.1</b>	<b>2,877</b>	<b>10.8</b>	<b>3,557</b>	<b>0.63</b>	<b>0.07</b>	<b>6.59</b>

NEW MEXICO URBAN STATE HIGHWAY SYSTEM ROADS 2002-2006									
Road Type	Sections	Road Miles	Average Length (mi)	Average AADT (veh/day)	Annual VMT (Billion)	Total Frequency	Annual Frequency	Annual Density	Annual Rate (HMVM)
Interstate/Freeway	80	178	2.2	44,714	2.9	530	1.33	0.59	3.64
Multilane Divided	266	269	1.0	16,156	1.6	833	0.63	0.62	10.52
Multilane Undivided	192	146	0.8	13,324	0.7	370	0.39	0.51	10.45
Two-lane Undivided	335	432	1.3	3,677	0.6	295	0.18	0.14	10.16
<b>Total</b>	<b>873</b>	<b>1,025</b>	<b>1.2</b>	<b>15,462</b>	<b>5.8</b>	<b>2,028</b>	<b>0.46</b>	<b>0.40</b>	<b>7.01</b>

### Specific Applications of usRAP in New Mexico

The four standard usRAP maps were developed for New Mexico's state maintained roads. Complementing Map 4 (reverse), are Map 1 (based on crash density, lower left), Map 2 (based on crash rate per 100 million vehicle-miles travelled, below center), and Map 3 (based on the ratio of the crash rate of a particular road section to the crash rate for similar roads, lower right).

