

**Maine Department of Transportation
Bureau of Planning
Safety/Mobility Benefit/Cost Ration Worksheet**

Location	City/Town	County	Study Period Begins	Study Period Ends
Martin Memorial Bridge	Rumford	Oxford	1/1/2008	12/31/2010
Description of Proposed Work	Replace bridge, re-align intersection			
Project Cost	Construction Costs		\$	11,800,000
	Preliminary Engineering Costs		\$	-
	Construction Engineering Costs		\$	-
	Right of Way Costs		\$	-
	Total Project Costs		\$	11,800,000
Capital Recovery	Project Service Life in Years		80	
	Discount Rate		7.00%	
	Capital Recovery Factor		0.070	
Equivalent Uniform Annual Cost			\$	829,700
Crash Reduction Factor	Reduction Factor 1		45.00%	Combined
	Reduction Factor 2		40.00%	80%
	Reduction Factor 3		40.00%	
	Reduction Factor 4		0.00%	

Severity	# of Injuries and P.D.O's	Study Period Changes in Injuries and P.D.O's	Annual Changes in Injuries and P.D.O's	Cost per Injury and P.D.O	Annual Benefit
Fatal	0			\$ 6,200,000	
Injury (A)	0			\$ 296,515	
Injury (B)	1	0.80	0.27	\$ 80,761	\$21,590
Injury (C)	1	0.80	0.27	\$ 41,239	\$11,025
P.D.O.	2	1.60	0.53	\$ 10,302	\$5,508
Total					\$ 38,123

Safety	\$	38,123
Mobility	\$	-
Combined	\$	38,123

B/C = 0.0459477

Using equivalent uniform annual costs

B = \$ 38,123
C = \$ 829,700