

TRIP Grading Scale

The following scale is used to rate key components of a region's road, highway and bridge network. The following are the variables used for individual ratings:

Roads: The grade takes into account the percentage of roads in poor or mediocre condition. The number corresponding to the actual percentage of roads rated in poor condition is doubled for scoring purposes, then added to the percentage in mediocre condition. Thus a region with 10 percent roads rated poor and 10 percent of roads rated in mediocre condition would get a score of 30 for rating purposes. Other factors such as status of a region's pavement maintenance program may also be considered in grading.

Bridges: TRIP's bridge grade is based on the percentage of bridges which are structurally deficient and functionally obsolete. The number corresponding to the percentage of bridges which are structurally deficient is doubled for scoring purposes, then added to the percentage rated functionally obsolete. Thus a region with 10 percent of its bridges rated structurally deficient and 10 percent rated functionally obsolete would get a score of 30 for rating purposes. Other factors such as status of a region's bridge maintenance program may also be considered in grading.

Congestion: The congestion grade reflects the percentage of urban highways which are considered congested. Highways are considered congested if their volume of traffic is rated either D, E or F in terms of standardized level of service ratings or if their traffic volume is 0.8 or higher on the volume-service-flow ratio, which compares traffic levels to a road or highways total maximum design capacity. Additional data such as congestion on key routes or anticipated increases in traffic volume may also be reflected in the grades.

Safety: Safety grades are assigned based on the annual number of traffic fatalities per 100,000 persons. Additional information such as a region's fatality rate per 100 million vehicle miles of travel and differences between urban versus rural routes, and routes with high crash rates may also be reflected in the grade.

	Pavement	Bridges	Congestion/ Percent Congested	Congestion/ TTI	Safety/per 100K	Safety/per 100 M VMT
A	0-15	0-12	0-10	0 - .80	0-3	0-0.79
B	16-30	13-24	11-25	.81- 1.00	4-6	.80 – 1.19
C	31-45	25-36	25-40	1.01 – 1.20	7-9	1.20 – 1.39
D	46-60	37-48	41-60	1.21 - 1.40	10-12	1.40 – 1.59
F	61+	49+	61+	1.41+	13+	1.60 +