

APPENDIX H: ROADWAY CAPACITY ANALYSIS

The capacity of a roadway is defined as the maximum number of vehicles that can pass a point on a roadway per hour. For two-lane highways the capacity has been determined to be 3,200 vehicles per hour in both directions. To determine how close to capacity a roadway is, the peak hour volume is divided by the capacity to produce the volume/capacity or “v/c” ratio. A v/c ratio equal to 1.00 indicates a roadway operating at maximum performing capacity. In general, a lower v/c ratio reflects a less congested roadway and therefore a more enjoyable route to drive. The v/c ratio for Route 112 in Hampshire County is described in Table 6.8.

Volume/Capacity Ratio in Hampshire County

Street Name	Starting Point	Ending Point	Volume/Capacity Ratio
Cape street	Ashfield Town Line	Route 9 (USMC HWY)	0.05
USMC League HWY	Cape Street Goshen	Westfield River Bridge	0.1
Berkshire Trail	Westfield River Bridge	Bryant road	0.09
Grout Road/Bryant Road	Route 9 (Berkshire Trail)	Five Corners (Bryant Road)	0.01
Clark Road / W. Cummington Road	Five Corners (Cummington)	Williamsburg Road	0.01
Huntington Road	Clark Road (Route 143/112 Split)	Kinnie Brook Road	0.03
Worthington Road/Huntington Road	Kinnie Brook Road (Worthington)	Route 66 (Pond Brook Road)	0.05
Worthington Road	Route 66 (Pond Brook Road)	Montgomery Road	0.06
Worthington Road	Montgomery Road	Route 20 (Huntington)	0.07

Source: PVPC