

CS 411 – Brunelle – Team Blue  
Traffic Wizard  
Prototype Use Cases

<b>Scenario</b>	<b>Description</b>
Normal/Optimal Traffic	Driver speeds are within standard speed limit range for respective roads. No known obstructions or congestion.
Low Congestion	Slight delays in travel time due to congested traffic – driver speeds are suboptimal from expected limit. May have various causes.
Moderate Congestion	Delays in travel time expected due to increased amount of traffic congestion. Usually caused by high volume traffic.
High Congestion	Large delays expected for drivers travelling. Usually caused by an obstruction or high volume traffic.
Blockage/Obstruction	Traffic is fully or partially blocked by an obstruction. Construction, accidents, and road closures are classified as obstructions. These events cannot easily be predicted.
Low Volume	The amount of cars on the road is less than average. Congestion is expected to be light or nonexistent.
High Volume	The amount of cars on the road exceeds average. Congestion is expected to be moderate to heavy. This condition can be associated with certain times of day (rush hour).

\*Scenarios are combined to form specific use cases for Traffic Wizard. A multitude of scenarios for various traffic conditions can be created from these.

Examples:

Normal Traffic □ Low Volume

Normal Traffic □ High Volume

Low Congestion □ Low Volume

Low Congestion □ Blockage/Obstruction □ High Volume

Moderate Congestion □ Blockage/Obstruction □ High Volume

Moderate Congestion □ Blockage/Obstruction □ Low Volume

High Congestion □ Blockage/Obstruction □ Low Volume

High Congestion □ High Volume