

Ontario Traffic Manual Book 12
Traffic and Pedestrian Signal Warrant Justifications

#	CRITERIA	DESCRIPTION
1	Minimum Volume (8 peak hour volumes)	<ul style="list-style-type: none"> • Considers cumulative volume on minor and major street and volume of intersecting traffic • Minimum Volume warrant at 100% fulfillment
2	Delay to Cross Traffic (8 peak hour volumes)	<ul style="list-style-type: none"> • Applied where heavy major street volume results in excessive minor street delay or hazardous crossing conditions • Delay to Cross Traffic warrant at 100% fulfillment
3	Volume/Delay Combination	<ul style="list-style-type: none"> • Volume/Delay Combination warrant where <u>both</u> Criteria 1 and 2 warrant at 80% fulfillment
4	Minimum Four-hour Vehicle Volume	<ul style="list-style-type: none"> • Intended for intersections with excessive peak hour delays • Not to be applied in combination with other justifications • Minimum Four-hour Vehicle Volume warrant at 100% fulfillment
5	Collision Experience	<ul style="list-style-type: none"> • Signals may be considered at intersections with unusually high collision history • Collision Experience warrant at an average of five or more collisions susceptible to correction per 12-month period • Collision Experience at 100% fulfillment
6	Pedestrian Volume & Delay	<ul style="list-style-type: none"> • Applicable where pedestrians experience excessive delays or hazard due to heavy traffic volume • Applicable for high pedestrian crossing volumes • Pedestrian Volume & Delay at 100% fulfillment
7	Projected Volume	<ul style="list-style-type: none"> • Identifying traffic signal requirements as a result of development • Average hourly volume applied to Criteria 1 and 2 • Project Volume warrant at 150% fulfillment