

Wisconsin Specific Trip Generation Rates Convenience Store/Gas Station Land Use ¹		
Weekday	Size of the Metro Area	
	Population < 300,000 ^(a)	Population ≥ 300,000 ^(a)
Daily ^(b)	$T = 80.61(VFP) + 898.30(GFA_{class}) - 354.83$	$T = 144.00(VFP) + 834.76(GFA_{class}) - 1035.89$
	Directional Distribution: 50% entering, 50% exiting	Directional Distribution: 50% entering, 50% exiting
Peak Hour of Adjacent Street Traffic	Size of the Metro Area	
	Population < 300,000 ^(a)	Population ≥ 300,000 ^(a)
AM	$T = 5.91(VFP) + 63.51(GFA_{class}) - 44.79$	$T = 12.68(VFP) + 54.28(GFA_{class}) - 108.66$
(One Hour Between 7 and 9 am)	Directional Distribution: 51% entering, 49% exiting	Directional Distribution: 51% entering, 49% exiting
PM	$T = 5.91(VFP) + 60.09(GFA_{class}) - 12.15$	$T = 7.88(VFP) + 75.75(GFA_{class}) - 65.54$
(One Hour Between 4 and 6 pm)	Directional Distribution: 50% entering, 50% exiting	Directional Distribution: 50% entering, 50% exiting
Peak Hour of Generator	All Populations	
Friday	$T = 7.71(VFP) + 73.71(GFA_{class}) - 29.06$	
	Directional Distribution: 51% entering, 49% exiting	
Caturday	$T = 6.76(VFP) + 76.48(GFA_{class}) - 19.33$	
Saturday	Directional Distribution: 50% entering, 50% exiting	
<i>T</i> = Number of trips		<i>GFA_{class}</i> = Category of C-Store GFA (enter 1, 2, or 3)
Daily: T is measured in vehicles per day (vpd)		1: < 4,000 square feet
AM, PM, Fri. & Sat. Peak Hour: T is measured in vehicles per hour (vph)		2: 4,000 – 5,999 square feet
<i>VFP</i> = Total number of vehicle-fueling positions ^(c)		3: ≥6,000 square feet
site is less than or greater than 3	00,000. Consult with WisDOT regional traffic staff before pro lation area. WisDOT regional traffic staff reserve the right to	referenced for determining whether the population of the proposed ceeding with calculations for developments that are proposed for modify the population coefficient based on development location,
(b) Daily trip generation equations w equation for a Friday period.	vere generated based on weekday data excluding Friday. Con	sult with WisDOT regional traffic staff prior to utilization of these
(c) Diesel and non-diesel VFPs combined; not including diesel VFPs that when in use, would prevent the use of the non-diesel VFPs.		

¹ Unless directed otherwise, continue to use the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition (TGM11) trip generation rates and equations for gasoline/service stations with C-stores less than 2,000 square feet (ITE Land Use Code 944) and developments (truck stops) that derive the majority of their business from truckers/large commercial vehicle traffic (ITE Land Use Code 950).