

Proportional Share Impact Worksheet

Input appropriate information in green cells

Project Name:
Intersection No.
Major Street¹
Minor Street¹

Through
Lanes¹

of Lanes* = 1
of Lanes* = 1

¹ See "Intersection Description" worksheet for descriptions

1. May Change without notice, call Thang Nguyen 425-587-3869 with questions

DATE:

Daily Project Traffic Entering the Intersection

(Total of both approaches divided by two)

(Total of both approaches divided by two)

	Daily Volumes	Entering Leg Volumes *	
Major Street Volume $V_1 =$	59	53	65
Minor Street Volume $V_2 =$	53.5	83	24

Major

Minor

*Do not leave cell empty for zero volume

Determine Geometric Factors

Number of Lanes		Geometric Factors			
Major Street	Minor Street	f ₁	f ₂	f ₃	f ₄
2	2	1.000	1.330	1.000	1.330
2	1	1.000	1.000	1.000	1.000
1	2	0.833	1.330	0.833	1.330
1	1	0.833	1.000	0.833	1.000

f ₁	f ₂	f ₃	f ₄
0.833	1	0.833	1

Calculate Base Percentages

$P_1 = V_1 / (10,000 \times f_1) =$ 0.71%
 $P_2 = V_2 / (5,000 \times f_2) =$ 1.07%
 $P_3 = V_1 / (15,000 \times f_3) =$ 0.47%
 $P_4 = V_2 / (2,500 \times f_4) =$ 2.14%

Calculate Proportional Share

$S_1 = (P_1 + P_2) / 2 =$ 0.89%
 $S_2 = (P_3 + P_4) / 2 =$ 1.31%

Intersection Proportional Share = Maximum of S1 and S2 = 1.31%

Significant Intersection? yes

1. Number of through lanes. Do not count exclusive turn lanes. Use the smaller number of lanes if the number of lanes is unequal on two legs. For Example, if one minor leg has two lanes and one minor leg has one lane, the number of lanes on the minor leg is one.

Computed By:
 Company: