

SwashWare

HCM-CALC

Project Properties

Analyst		Roadway Name		Analysis Period	AM Peak
Analysis Date	2024-07-16 10:15:34 PM	From		Analysis Module	Two-Lane Highway Segment
Agency		To		Module Version Date	11/25/2016
Location		Analysis Direction		HCM Edition	HCM2016
User Notes					
File Name					

Input Values and Intermediate Calculation Results

Highway Class	1		
Demand, d (veh/h)	Demand, o (veh/h)	D Factor	Peak Hour Factor
26	95	0.21	0.680
Percent No-Passing Zones	Passing Lane (Yes/No)		
30	No		

Grade Adjustment Factor Values			
Terrain	Level		
Grade Adj. Factor PTSF (d)	Grade Adj. Factor PTSF (o)	Grade Adj. Factor ATS (d)	Grade Adj. Factor ATS (o)
1.00	1.00	1.00	1.00

Heavy Vehicle Factor Values					
Terrain	% Grade	Length (mi)	% Trucks	% RVs	
Level	N/A	N/A	42.0	0.0	
Truck PCE PTSF (d)	RV PCE PTSF (d)	Heavy Vehicle Factor PTSF (d)	Truck PCE ATS (d)	RV PCE ATS (d)	Heavy Vehicle Factor ATS (d)
1.10	1.00	0.960	1.90	1.00	0.726
Truck PCE PTSF (o)	RV PCE PTSF (o)	Heavy Vehicle Factor PTSF (o)	Truck PCE ATS (o)	RV PCE ATS (o)	Heavy Vehicle Factor ATS (o)
1.10	1.00	0.960	1.70	1.00	0.773

Free Flow Speed Adjustment Values			
FFS Method	Measured FFS (mi/h)	FFS Prevailing Flow Rate (veh/h)	FFS (mi/h)
Measured		131	41.4

PTSF Analysis Flow Rate (d)	PTSF Analysis Flow Rate (o)	ATS Analysis Flow Rate (d)	ATS Analysis Flow Rate (o)
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(pc/h)	(pc/h)	(pc/h)	(pc/h)
40	146	53	181
PTSF Capacity (veh/h)		ATS Capacity (veh/h)	
1700		1700	
PTSF Coeff. 'a'	PTSF Coeff. 'b'	PTSF f _{np}	ATS f _{np}
-0.0014	0.9730	32.25	1.06

Performance Measures and LOS

v/c ratio	PTSF (%)	Avg. Speed (mi/h)	Pct. FFS
0.03	11.9	38.5	93.1
LOS		Service Measure	
E		ATS	

Service Volumes

	A	B	C	D	E
Lanes	Hourly Volume In Peak Direction				
1	--	--	--	--	--
Lanes	Hourly Volume In Both Directions [D = 0.21]				
2	--	--	--	--	--
Lanes	Annual Average Daily Traffic [K = 0.1]				
2	--	--	--	--	--
	Notes				
--	Not applicable for this facility type.				
*	Cannot be achieved based on input data provided.				
**	No defined LOS threshold for this LOS level.				
***	Service volume the same as for previous LOS level.				