

Highway Capacity Analysis Webinar Series

Including Detailed Information on HCM 6th Edition and HCS7

This webinar series presents lectures, software demonstrations and application examples on the Highway Capacity Manual (HCM) procedures – including updates coming in the 6th Edition. Step-by-step instruction of the HCM methodologies will be provided for each analytical chapter. The Highway Capacity Software (HCS) implements and automates the HCM procedures. Each lecture will be followed by working example problems and a software demonstration using the HCS7 prototype. A comprehensive workbook is provided to include all slides.

The series is organized as follows with all presented from 10:30 AM to 12:00 PM EST. Registration is provided in four sections (Streets, Unsignal, Freeways and Highways) with the Overview included with any registration and a discount for the entire series. All webinars will be limited to the first twenty-five registrations to ensure questions and discussion can be managed appropriately. You can access detailed course descriptions and register here:

Webinar Series Schedule

December 1, 2, 3, 4, 8, 9, 10 & 11

(10:30-12:00 EST)

An outline of the material presented in this webinar series (and the one-day seminar) is below. The webinar is covered in four ninety-minute sessions—including demonstrations of the ongoing development of the Highway Capacity Software (*HCS7*) to be released concurrent with the publication of the HCM Update.

Overview	December 1	HCM and HCS Overview, Major Changes, Principles, Concepts
Streets	December 2,3,4	Signalized Intersections (NEMA, Phase Duration, Multiple-Period Analysis) Urban Streets (Flow Profile, Access Points, Travel Time Reliability, ATDM) Ramp Terminals and Alternative Intersections (DDI, DLT, RCUT, MUT)
Unsignal	December 8	Unsignalized Intersections (TWSC, AWSC, Roundabouts, Corridors)
Freeways	December 9,10	Freeway Segments (Basic, Weaving, Merge & Diverge) Freeway Facilities (Travel Time Reliability, ATDM)
Highways	December 11	Highway Segments (Multilane Highways, Two-Lane Highways)



Alternative Intersections

Interchanges and Alternative Intersections

Interchanges
 Interchange Intersection
 Interchange Type Diamond
 Diverging Diamond

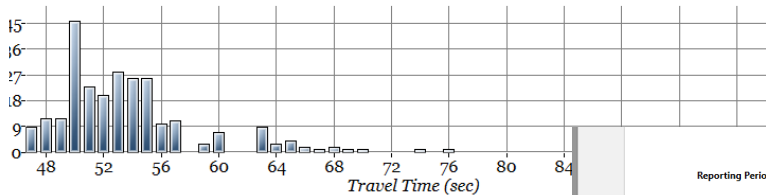
Alternative
 Alternative Intersection
 Intersection Type DLT
 Upstream

MUT
 MUT with TWSC
 RCUT
 DLT
 DCD/DDI

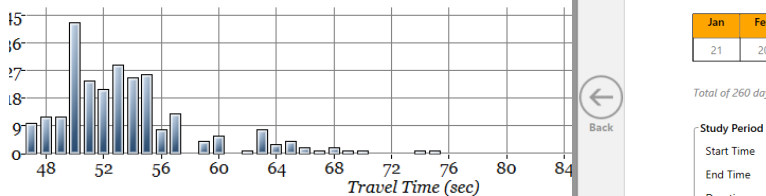
MULTIMODAL INPUT DATA

Signal One Information													
Cycle, s	65.0												
Offset, s	45												
Uncoordinated	No	Green	18.9	36.1	0.0	0.0	0.0	0.0					
Force Mode	Fixed	Yellow	4.0	4.0	0.0	0.0	0.0	0.0					
		Red	1.0	1.0	0.0	0.0	0.0	0.0					
Signal Two Information													
Cycle, s	65.0												
Offset, s	0												
Uncoordinated	No	Green	17.0	11.7	4.8	16.4	0.0	0.0					
Force Mode	Fixed	Yellow	4.0	4.0	0.0	4.0	0.0	0.0					
		Red	1.0	1.0	0.0	1.0	0.0	0.0					
Signal Three Information													
Cycle, s	65.0												
Offset, s	45												
Uncoordinated	No	Green	12.8	42.2	0.0	0.0	0.0	0.0					
Force Mode	Fixed	Yellow	4.0	4.0	0.0	0.0	0.0	0.0					
		Red	1.0	1.0	0.0	0.0	0.0	0.0					
Overall Results		EB1	WB1	EB2	WB2	NB2	SB2	EB3	WB3				
Approach Delay, s/veh		10.8	4.1	42.2	29.5	21.6	24.6	2.5	11.0				
Approach LOS		B	A	D	C	C	C	A	B				
Intersection ETT, s/veh / LOS		28.6				C							

Travel Time Frequency Distribution EB



Travel Time Frequency Distribution WB



Travel Time Reliability

Analysis

Reporting Period Start Date 1/1/2011 End Date 1/1/2012

Mon	Tue	Wed	Thu	Fri	Sat	Sun
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
21	20	23	21	22	22	21	23	22	21	22	22

Total of 260 days have been selected from 1/1/2011 to 1/1/2012 including only weekdays.

Study Period
 Start Time 07:00
 End Time 07:15
 Duration 00:15

Analysis Summary
 Total number of analysis days 260
 Number of datasets per day 1
 Number of standard datasets 260
 Total Number of datasets 260