

## HCS 2010<sup>TM</sup>

### Release 6.50

HCS 2010<sup>TM</sup> Release 6.50 is scheduled for February, following the Highway Capacity and Quality of Service (HCQS) meeting, to allow for updates if necessary because of any approved changes. Here is what is planned:

#### Interchanges

The procedures for HCM 2010 Chapter 22, Interchange Ramp Terminals, will be integrated within the Streets module. After identifying the (typically two) signals as part of an interchange, users will select an interchange type from those covered by methodology (diamond, parclo, SPU) and provide the additional data required (interchange U-turn, turn radius) to perform the analysis. Interchanges will incorporate specific adjustments for lane utilization, traffic pressure, left- and right-turn radius, and additional lost time for internal queuing and demand starvation. Demand, Delay and Level of Service will be provided for each origin-destination pair, as well as general results for each signalized intersection within a consolidated, one-page report.

Interchanges		EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Interchange Intersection	<input checked="" type="checkbox"/>	0			0			0			0		
Interchange Type	Diamond	112	32	112	32	112	32	112	32	112	32		
Type Selection Segment Length, ft	1000	Turn Radius, ft											

#### Streets

The Streets module will add a mechanism (Quick Streets) for importing turning movement count data from any source through an Excel template. The tool will accommodate multiple intersections covering multiple time periods, with plans to add some trip generation and distribution capabilities for use in traffic impact studies later.

A video tutorial will be included in the Streets Help facility to guide users through the new aspects of this module to expedite the learning curve, since it has changed so much from the previous HCS+ Signals interface.

#### Roundabouts

A Quick Entry screen will be added (hopefully within Release 6.50) to facilitate lane configuration definition within a graphical dialog.

#### TWSC

This module will be updated (probably after Release 6.50) to accommodate major streets with six lanes (including modeling U-turns) and the effects of upstream signals (using proportion time blocked data from Streets) with pedestrian level of service to be added later.

## HCM 2010 Reliability

McTrans has been hard at work on the extension of the Urban Streets and Freeway Facilities methodologies to incorporate the procedures included in the draft HCM 2010 Chapters 36 and 37 for Travel Time Reliability. Modeling travel time reliability as the distribution of trips over an extended period of time will include the interaction of recurring variations in demand (by hour of day, day of week, month of year); severe weather (heavy rain, snow, poor visibility); incidents (crashes, stalls, debris); work zones (reduce capacity or influence de-

mand); and special events (sporting events, festivals or concerts). These procedures are intended to overcome the typical HCM analysis of average conditions, typically during the peak fifteen minutes of a peak hour under typical conditions, to extend the analysis to include those times when conditions are much worse, due to incidents, severe weather, unusually high demand levels, or some combination of atypical Streets and Facilities modules within HCS 2010<sup>TM</sup>.

**HCS 2010 / HCM 2010 Training**

Register online:

[mctrans.ce.ufl.edu/training](http://mctrans.ce.ufl.edu/training)

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## Calendar

### Training

<b>Highway Capacity Analysis</b>	February 5-6, 2013	Houston, TX
<b>Highway Capacity Analysis</b>	April 2-3, 2013	Saint Louis, MO
<b>2010 HCM Workshop Online</b>	On Demand	(30-Day Access)

### Conferences

<b>TRB Annual Meeting</b>	January 13-17, 2013	Washington, DC
<b>ITE Annual Meeting</b>	August 4-7, 2013	Boston, MA

## Update Watch

Package	Version	Status	Target	Distribution
<i>HCS 2010</i>	6.50	In Testing	February	<i>HCS 2010</i> Patch Download
TRANSYT-7F	11.33	Complete	Available	Included with <i>HCS 2010</i>
TSIS+T7F	6.3	Complete	Available	Sent to Registered Users

**Online Catalog**     <http://mctrans.ce.ufl.edu/catalog/>     (Searching and ordering software)

**Order Form**     <http://mctrans.ce.ufl.edu/orderform/>     (For purchase orders and checks)

**Training**     <http://mctrans.ce.ufl.edu/training/>     (*HCS 2010*, T7F and CORSIM)