

Instructions for MX values and Actual Split Percentage Analysis

Step1: Go to SCATS History Viewer to the Event tab (for MX Values) and Phase tab (for Actual Split %) and select the specific date and site then export the results as csv file (as shown below)

The screenshot shows the SCATS History Viewer application. The interface includes a menu bar (File, Edit, Tools, Help), a toolbar with a 'Filter...' button, and a tabbed interface with 'Events', 'Phases', 'Signal groups', 'Cycles', 'Timeline', and 'Statistics'. The 'Events' tab is selected. The 'Site number' dropdown is set to '1002'. The 'Events filter' and 'Export...' buttons are visible in the top right. A large table displays event data with columns for 'Time' and 'Event'. The table contains numerous rows of event logs, including phase status flags, signal group changes, and phase terminations. Annotations with arrows point to the 'Site number' dropdown (labeled 'Select Site ID'), the 'Events' tab (labeled 'Select the Events tab'), and the 'Export...' button (labeled 'Export the results as CSV file').

Select Site ID

Select the Events tab

Export the results as CSV file

Time	Event
Thursday, March 10, 2022, 12:00:06 AM EST	Phase status flags: Max Due=On
Thursday, March 10, 2022, 12:00:06 AM EST	Phase termination request: Current phase=A
Thursday, March 10, 2022, 12:00:06 AM EST	Signal group: 4=Not green, 8=Not green
Thursday, March 10, 2022, 12:00:07 AM EST	Phase interval: Phase interval=Yellow
Thursday, March 10, 2022, 12:00:12 AM EST	Phase interval: Phase interval=All red
Thursday, March 10, 2022, 12:00:13 AM EST	Phase demand: A=Off
Thursday, March 10, 2022, 12:00:13 AM EST	Signal group: 2=Green, 6=Green
Thursday, March 10, 2022, 12:00:14 AM EST	Phase termination: Terminated phase=C, MX=1, GT=15, CG=19
Thursday, March 10, 2022, 12:00:14 AM EST	Alarm timer: Timer values=1
Thursday, March 10, 2022, 12:00:14 AM EST	Current phase: Current phase=A, Flags=[1]
Thursday, March 10, 2022, 12:00:14 AM EST	Phase interval: Phase interval=Minimum green
Thursday, March 10, 2022, 12:00:14 AM EST	Phase status flags: No Demands=On, Max Due=Off, Stretch=On
Thursday, March 10, 2022, 12:00:39 AM EST	Phase interval: Phase interval=Rest or extension green
Thursday, March 10, 2022, 12:00:39 AM EST	Controller request termination: Phase=A, State=request termination
Thursday, March 10, 2022, 12:00:40 AM EST	Phase status flags: Request Termination=On
Thursday, March 10, 2022, 12:00:41 AM EST	Controller request termination: Phase=A, State=no request termination
Thursday, March 10, 2022, 12:00:42 AM EST	Phase status flags: Request Termination=Off
Thursday, March 10, 2022, 12:00:42 AM EST	Controller request termination: Phase=A, State=request termination
Thursday, March 10, 2022, 12:00:44 AM EST	Phase status flags: Request Termination=On
Thursday, March 10, 2022, 12:00:55 AM EST	Cycle length: Active=100
Thursday, March 10, 2022, 12:00:56 AM EST	Plan change: IP1
Thursday, March 10, 2022, 12:01:15 AM EST	Controller request termination: Phase=A, State=no request termination
Thursday, March 10, 2022, 12:01:16 AM EST	Phase status flags: Request Termination=Off
Thursday, March 10, 2022, 12:01:18 AM EST	Controller request termination: Phase=A, State=request termination
Thursday, March 10, 2022, 12:01:19 AM EST	Phase status flags: Request Termination=On, Max Due=On
Thursday, March 10, 2022, 12:01:20 AM EST	Phase status flags: Request Termination=Off
Thursday, March 10, 2022, 12:01:25 AM EST	Controller request termination: Phase=A, State=no request termination
Thursday, March 10, 2022, 12:01:27 AM EST	Controller request termination: Phase=A, State=request termination
Thursday, March 10, 2022, 12:01:29 AM EST	Phase demand: C=On
Thursday, March 10, 2022, 12:01:30 AM EST	Phase status flags: No Demands=Off
Thursday, March 10, 2022, 12:01:30 AM EST	Phase termination request: Current phase=C
Thursday, March 10, 2022, 12:01:30 AM EST	Phase termination request confirmation: Current phase=A
Thursday, March 10, 2022, 12:01:31 AM EST	Phase status flags: Mx Ack=On
Thursday, March 10, 2022, 12:01:31 AM EST	Phase termination request: Current phase=C
Thursday, March 10, 2022, 12:01:31 AM EST	Controller request termination: Phase=A, State=no request termination
Thursday, March 10, 2022, 12:01:31 AM EST	Signal group: 2=Not green, 6=Not green
Thursday, March 10, 2022, 12:01:32 AM EST	Phase interval: Phase interval=Yellow
Thursday, March 10, 2022, 12:01:35 AM EST	Cycle generator: Status=restart
Thursday, March 10, 2022, 12:01:37 AM EST	Phase demand: A=On
Thursday, March 10, 2022, 12:01:38 AM EST	Phase interval: Phase interval=All red
Thursday, March 10, 2022, 12:01:39 AM EST	Phase demand: C=Off
Thursday, March 10, 2022, 12:01:39 AM EST	Signal group: 4=Green, 8=Green
Thursday, March 10, 2022, 12:01:40 AM EST	Phase termination: Terminated phase=A, MX=1, GT=15, CG=19

Connected to 10.18.180.17:2012 | File opened: C:\Users\CNSLTA\FI2\scats\History Viewer\Cache\NUR001_20220310.hst

SCATS History Viewer

File Edit Tools Help

Site number: 10028 **Enter the Site ID**

Events Phases Signal groups Cycles Timeline Statistics **Choose the Phase Tab**

1,586 phases found for site 10023

Export...

Export the results as CSV file

Phase	Duration (s)	Start	End	Gapped
Unknown	14	Thursday, March 10, 2022, 12:00:00 AM EST	Thursday, March 10, 2022, 12:00:14 AM EST	
<A>	86	Thursday, March 10, 2022, 12:00:14 AM EST	Thursday, March 10, 2022, 12:01:40 AM EST	
C	15	Thursday, March 10, 2022, 12:01:40 AM EST	Thursday, March 10, 2022, 12:01:55 AM EST	
<A>	34	Thursday, March 10, 2022, 12:01:55 AM EST	Thursday, March 10, 2022, 12:02:29 AM EST	Yes
B	10	Thursday, March 10, 2022, 12:02:29 AM EST	Thursday, March 10, 2022, 12:02:39 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:02:39 AM EST	Thursday, March 10, 2022, 12:02:55 AM EST	
<A>	175	Thursday, March 10, 2022, 12:02:55 AM EST	Thursday, March 10, 2022, 12:05:50 AM EST	
B	11	Thursday, March 10, 2022, 12:05:50 AM EST	Thursday, March 10, 2022, 12:06:01 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:06:01 AM EST	Thursday, March 10, 2022, 12:06:17 AM EST	
<A>	170	Thursday, March 10, 2022, 12:06:17 AM EST	Thursday, March 10, 2022, 12:09:07 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:09:07 AM EST	Thursday, March 10, 2022, 12:09:23 AM EST	
<A>	33	Thursday, March 10, 2022, 12:09:23 AM EST	Thursday, March 10, 2022, 12:09:56 AM EST	Yes
B	11	Thursday, March 10, 2022, 12:09:56 AM EST	Thursday, March 10, 2022, 12:10:07 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:10:07 AM EST	Thursday, March 10, 2022, 12:10:23 AM EST	
<A>	34	Thursday, March 10, 2022, 12:10:23 AM EST	Thursday, March 10, 2022, 12:10:57 AM EST	Yes
B	10	Thursday, March 10, 2022, 12:10:57 AM EST	Thursday, March 10, 2022, 12:11:07 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:11:07 AM EST	Thursday, March 10, 2022, 12:11:23 AM EST	
<A>	56	Thursday, March 10, 2022, 12:11:23 AM EST	Thursday, March 10, 2022, 12:12:19 AM EST	Yes
B	12	Thursday, March 10, 2022, 12:12:19 AM EST	Thursday, March 10, 2022, 12:12:31 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:12:31 AM EST	Thursday, March 10, 2022, 12:12:47 AM EST	
<A>	33	Thursday, March 10, 2022, 12:12:47 AM EST	Thursday, March 10, 2022, 12:13:20 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:13:20 AM EST	Thursday, March 10, 2022, 12:13:36 AM EST	
<A>	33	Thursday, March 10, 2022, 12:13:36 AM EST	Thursday, March 10, 2022, 12:14:09 AM EST	Yes
B	11	Thursday, March 10, 2022, 12:14:09 AM EST	Thursday, March 10, 2022, 12:14:20 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:14:20 AM EST	Thursday, March 10, 2022, 12:14:36 AM EST	
<A>	33	Thursday, March 10, 2022, 12:14:36 AM EST	Thursday, March 10, 2022, 12:15:09 AM EST	Yes
B	14	Thursday, March 10, 2022, 12:15:09 AM EST	Thursday, March 10, 2022, 12:15:23 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:15:23 AM EST	Thursday, March 10, 2022, 12:15:39 AM EST	
<A>	43	Thursday, March 10, 2022, 12:15:39 AM EST	Thursday, March 10, 2022, 12:16:22 AM EST	Yes
B	10	Thursday, March 10, 2022, 12:16:22 AM EST	Thursday, March 10, 2022, 12:16:32 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:16:32 AM EST	Thursday, March 10, 2022, 12:16:48 AM EST	
<A>	35	Thursday, March 10, 2022, 12:16:48 AM EST	Thursday, March 10, 2022, 12:17:23 AM EST	Yes
B	11	Thursday, March 10, 2022, 12:17:23 AM EST	Thursday, March 10, 2022, 12:17:34 AM EST	Yes
C	15	Thursday, March 10, 2022, 12:17:34 AM EST	Thursday, March 10, 2022, 12:17:49 AM EST	
<A>	72	Thursday, March 10, 2022, 12:17:49 AM EST	Thursday, March 10, 2022, 12:19:01 AM EST	
B	13	Thursday, March 10, 2022, 12:19:01 AM EST	Thursday, March 10, 2022, 12:19:14 AM EST	
C	16	Thursday, March 10, 2022, 12:19:14 AM EST	Thursday, March 10, 2022, 12:19:30 AM EST	
<A>	155	Thursday, March 10, 2022, 12:19:30 AM EST	Thursday, March 10, 2022, 12:22:05 AM EST	Yes
B	10	Thursday, March 10, 2022, 12:22:05 AM EST	Thursday, March 10, 2022, 12:22:15 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:22:15 AM EST	Thursday, March 10, 2022, 12:22:31 AM EST	
<A>	35	Thursday, March 10, 2022, 12:22:31 AM EST	Thursday, March 10, 2022, 12:23:06 AM EST	Yes
B	11	Thursday, March 10, 2022, 12:23:06 AM EST	Thursday, March 10, 2022, 12:23:17 AM EST	Yes
C	16	Thursday, March 10, 2022, 12:23:17 AM EST	Thursday, March 10, 2022, 12:23:33 AM EST	

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Step2: Choose on the website the Site ID, the time boundaries as indicated in the image below

SCATS Data Manager

Developed by Abdullah Shabarek

- MX Value Analysis
- Degree of Saturation Analysis
- Degree of Saturation over Phase Timing Analysis
- Travel Time - Variation Routine Analysis
- MX Value & Actual Split Percentage
- Resources and Instructions

MX Value / Actual Split Percentage Analysis

Site ID: 10012 **Select Site ID here**

Lower Time: 14 00 00

Upper Time: 18 00 00 **Select the lower and upper time boundaries for the analysis**

Step3: Upload the files and specify the phase for MX value analysis as indicated below:

The screenshot shows a software interface with four main sections. The first section, 'Select the Phase:', contains a dropdown menu with 'Phase A' selected. The second section, 'Upload CSV Event File from History Viewer', has a 'Browse...' button and a 'No file selected' status. The third section, 'Upload CSV Phase File from History Viewer', also has a 'Browse...' button and a 'No file selected' status. The fourth section contains four buttons: 'Preview MX', 'Preview Phase%', 'Download MX', and 'Download Phase%'. Annotations with arrows point from these sections to explanatory text on the right. An orange arrow points from the 'Select the Phase:' section to the text 'For the MX Value, you need to specify the Phase you need to analyze. For the Actual Phase %, you can ignore this option'. A red arrow points from the 'Upload CSV Event File from History Viewer' section to the text 'Upload the Exported Event File from History Viewer for MX Value Analysisi'. A green arrow points from the 'Upload CSV Phase File from History Viewer' section to the text 'Upload the Exported Phase File from History Viewer for actual split % analysis'. A blue arrow points from the 'Preview MX' and 'Download MX' buttons to the text 'Preview or Download the results'.

Select the Phase:
Phase A

Upload CSV Event File from History Viewer
Browse... No file selected

Upload CSV Phase File from History Viewer
Browse... No file selected

Preview MX **Preview Phase%**
Download MX **Download Phase%**

For the MX Value, you need to specify the Phase you need to analyze. For the Actual Phase %, you can ignore this option

Upload the Exported Event File from History Viewer for MX Value Analysisi

Upload the Exported Phase File from History Viewer for actual split % analysis

Preview or Download the results