

**DLZ OHIO, INC.**  
 SCI-823 Portsmouth Traffic Model  
 Before Travel-Time Study

Study Name : **US 23 SB PM**  
 Study Date : **8/1/2012**  
 Page No. : 1

**Study Summary**

*Runs Used in This Study*

| Run Title    | Start Date | Start Time | Length | Before/After | Run Type |
|--------------|------------|------------|--------|--------------|----------|
| US 23-SB-001 | 07/24/12   | 15:58      | 49656  | Before       | Primary  |
| US 23-SB-002 | 07/24/12   | 16:35      | 49705  | Before       | Primary  |
| US 23-SB-003 | 07/24/12   | 17:10      | 49624  | Before       | Primary  |
| US 23-SB-004 | 07/25/12   | 16:42      | 49694  | Before       | Primary  |
| US 23-SB-005 | 07/25/12   | 17:15      | 49623  | Before       | Primary  |

**Node Info**

| # | Len   | Name       |
|---|-------|------------|
| 1 | 0     |            |
| 2 | 13    | CR 160     |
| 3 | 16320 | COLES BLVD |
| 4 | 7492  | US 52 EB   |
| 5 | 2867  | US 73      |
| 6 | 2458  | SR 8       |
| 7 | 9737  | SR 7       |
| 8 | 10773 | KY 1043    |

Length of Study Route = 49,660 feet

**Notes:**

**DLZ OHIO, INC.**  
 SCI-823 Portsmouth Traffic Model  
 Before Travel-Time Study

Study Name : **US 23 SB PM**  
 Study Date : **8/1/2012**  
 Page No. : **2**

**Overall Output Statistics**

| Node #       | Length        | Node       | Travel Time  | # of Stops | Avg Speed   | Total Delay  | Time <= 0 MPH | Time <= 35 MPH | Time <= 55 MPH |
|--------------|---------------|------------|--------------|------------|-------------|--------------|---------------|----------------|----------------|
| 1            | 0             |            |              |            |             |              |               |                |                |
| 2            | 13            | CR 160     | 2.6          | 0.0        | 3.4         | 2.6          | 0.0           | 2.6            | 2.6            |
| 3            | 16320         | COLES BLVD | 256.8        | 0.4        | 43.3        | 0.0          | 5.0           | 34.4           | 249.2          |
| 4            | 7492          | US 52 EB   | 203.4        | 2.0        | 25.1        | 57.2         | 26.0          | 128.0          | 203.4          |
| 5            | 2867          | US 73      | 162.2        | 3.4        | 12.1        | 106.2        | 35.8          | 162.2          | 162.2          |
| 6            | 2458          | SR 8       | 73.8         | 0.6        | 22.7        | 25.8         | 13.2          | 61.2           | 73.8           |
| 7            | 9737          | SR 7       | 140.8        | 0.4        | 47.2        | 0.0          | 5.4           | 21.2           | 87.0           |
| 8            | 10773         | KY 1043    | 146.0        | 0.2        | 50.3        | 0.0          | 0.0           | 6.6            | 121.0          |
| <b>Total</b> | <b>49,660</b> |            | <b>985.6</b> | <b>7.0</b> | <b>34.4</b> | <b>191.8</b> | <b>85.4</b>   | <b>416.2</b>   | <b>899.2</b>   |

Stats based on 5 BEFORE runs.  
 Stops based on a Stop Speed of 5 MPH.  
 Total Delay based on a Normal Speed of 35 MPH.

**DLZ OHIO, INC.**  
 SCI-823 Portsmouth Traffic Model  
 Before Travel-Time Study

Study Name : **US 23 SB PM**  
 Study Date : **8/1/2012**  
 Page No. : **3**

**Fuel Consumption & Emissions**

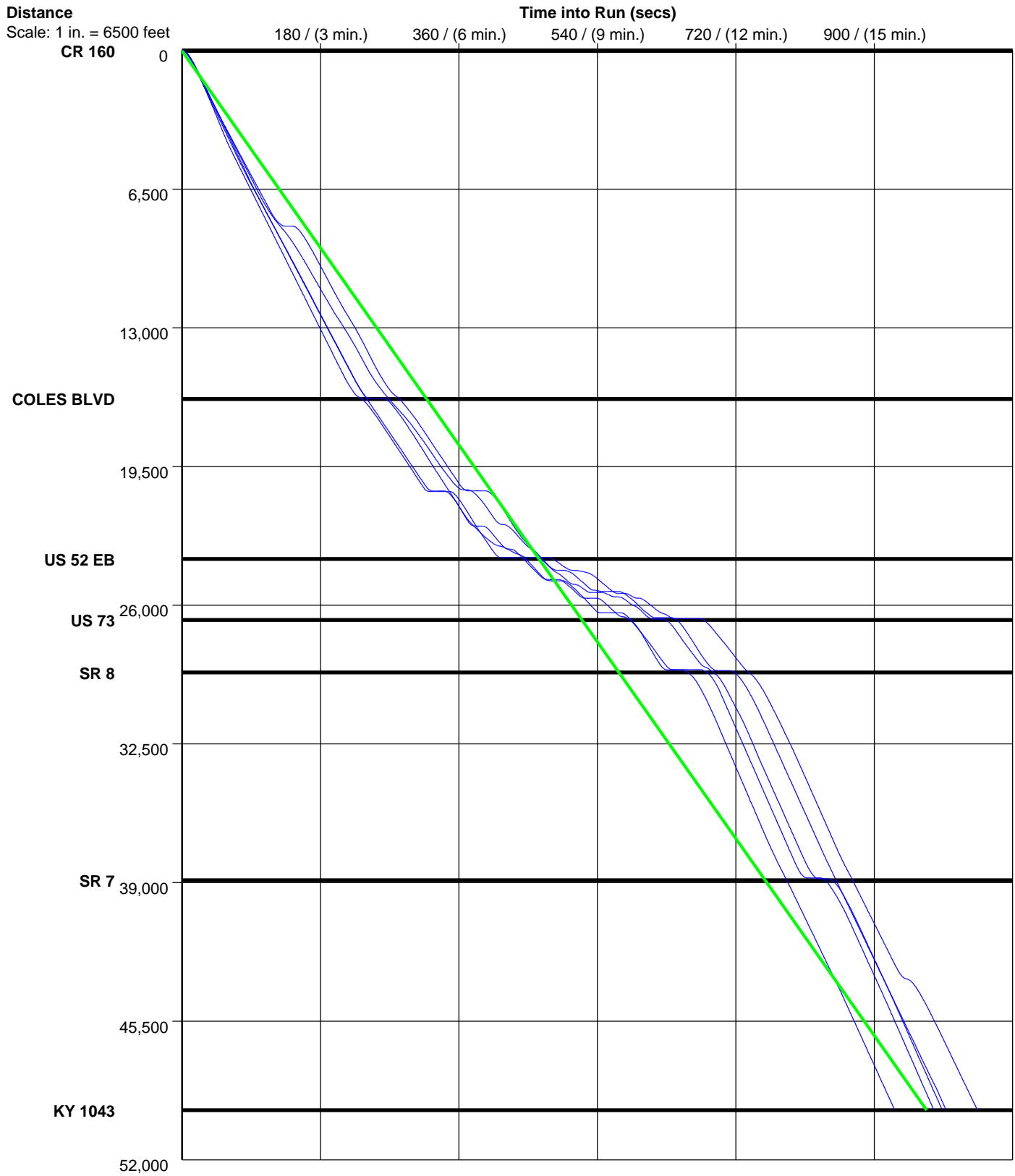
| Node #       | Length        | Node Name  | Fuel (gal)    | HC (grams)     | CO (grams)      | NOx (grams)    |
|--------------|---------------|------------|---------------|----------------|-----------------|----------------|
| 1            | 0             |            |               |                |                 |                |
| 2            | 13            | CR 160     | 0.0007        | 0.0738         | 0.2678          | 0.0432         |
| 3            | 16320         | COLES BLVD | 0.1448        | 9.4375         | 116.1949        | 4.8536         |
| 4            | 7492          | US 52 EB   | 0.0721        | 6.3538         | 58.5913         | 3.2059         |
| 5            | 2867          | US 73      | 0.0428        | 4.4053         | 31.0338         | 2.1046         |
| 6            | 2458          | SR 8       | 0.0256        | 2.4720         | 22.9931         | 1.3502         |
| 7            | 9737          | SR 7       | 0.0950        | 6.0918         | 81.1847         | 3.4494         |
| 8            | 10773         | KY 1043    | 0.0947        | 4.7168         | 59.9708         | 2.0130         |
| <b>Total</b> | <b>49,660</b> |            | <b>0.4756</b> | <b>33.5509</b> | <b>370.2364</b> | <b>17.0199</b> |

Stats based on 5 BEFORE runs.

**DLZ OHIO, INC.**  
 SCI-823 Portsmouth Traffic Model  
 Before Travel-Time Study

Study Name : **US 23 SB PM**  
 Study Date : **8/1/2012**  
 Page No. : **4**

**Time/Space Trajectories of All Runs**



**Solid Line is Normal Speed of 35 MPH**