# Congestion Management Plan Update

Montgomery MPO

## *PC-Travel Reports for study: S US-231 AM SB Study*


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# Congestion
# Management Plan Update
Montgomery MPO

Study Name : **S US-231 AM SB Study**
Study Date : **12/11/2013**
Page No. : **2**

## Study Summary

***Runs Used in This Study***

| Run Title | Start Date | Start Time | Length | Before/ After | Run Type |
|---|---|---|---|---|---|
| S US-231 AM-SB-001 t | 12/11/13 | 08:22 | 20123 | Before | Secondary |
| S US-231 AM-SB-002 t | 12/11/13 | 08:40 | 20011 | Before | Secondary |
| S US-231 AM-SB-003 t | 12/11/13 | 08:55 | 20014 | Before | Secondary |

***Notes:***

***Node Info***

| # | Len | Name |
|---|---|---|
| 1 | 0 | South Blvd |
| 2 | 1815 | Virginia Loop Rd / |
| 3 | 1124 | Catherine Dr |
| 4 | 446 | Park Towne Way |
| 5 | 1813 | Business Park Dr |
| 6 | 2436 | Radio Rd |
| 7 | 668 | Cherry Hill Rd / Kyser Ct |
| 8 | 796 | Provost Ave / Bell Rd |
| 9 | 1018 | Jack Pine Dr |
| 10 | 1476 | Brewbaker Dr |
| 11 | 3253 | Perimeter Pkwy |
| 12 | 1138 | Perimeter Pkwy |
| 13 | 2222 | Unnamed Rd |
| 14 | 1881 | Taylor Rd |

Length of Study Route = 20,086 feet

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Study Name : **S US-231 AM SB Study**
Study Date : **12/11/2013**
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## Overall Output Statistics

| Node # | Length | Node | Travel Time | # of Stops | Avg Speed | Total Delay | Time <= 0 MPH | Time <= 40 MPH | Time <= 55 MPH |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | South Blvd | | | | | | | |
| 2 | 1815 | Virginia Loop Rd / Christine | 30.0 | 0.0 | 41.3 | 6.7 | 0.0 | 11.7 | 26.7 |
| 3 | 1124 | Catherine Dr | 13.0 | 0.0 | 59.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| 4 | 446 | Park Towne Way | 5.3 | 0.0 | 57.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 | 1813 | Business Park Dr | 19.3 | 0.0 | 63.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 | 2436 | Radio Rd | 26.0 | 0.0 | 63.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 | 668 | Cherry Hill Rd / Kyser Ct | 7.0 | 0.0 | 65.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8 | 796 | Provost Ave / Bell Rd | 22.3 | 0.3 | 24.3 | 13.3 | 3.0 | 14.7 | 15.0 |
| 9 | 1018 | Jack Pine Dr | 12.3 | 0.0 | 56.3 | 1.0 | 0.0 | 1.7 | 4.0 |
| 10 | 1476 | Brewbaker Dr | 14.7 | 0.0 | 68.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 3253 | Perimeter Pkwy | 31.7 | 0.0 | 70.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 1138 | Perimeter Pkwy | 11.3 | 0.0 | 68.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 2222 | Unnamed Rd | 21.7 | 0.0 | 69.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 1881 | Taylor Rd | 18.3 | 0.0 | 70.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Total** | **20,086** | | **233.0** | **0.3** | **58.8** | **21.0** | **3.0** | **28.0** | **48.7** |

Stats based on 3 BEFORE runs.
Stops based on a Stop Speed of 5 MPH.
Total Delay based on a Normal Speed of 55 MPH.

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Study Name : **S US-231 AM SB Study**
Study Date : **12/11/2013**
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## Detailed Statistics By Run

**Travel Time (sec) by Section**

| Node # | Length | Node Name | Run #1 (S US-231 AM-SB-001 t) | Run #2 (S US-231 AM-SB-002 t) | Run #3 (S US-231 AM-SB-003 t) |
|---|---|---|---|---|---|
| 1 | 0 | South Blvd | | | |
| 2 | 1815 | Virginia Loop Rd / | 31 | 29 | 30 |
| 3 | 1124 | Catherine Dr | 12 | 14 | 13 |
| 4 | 446 | Park Towne Way | 5 | 6 | 5 |
| 5 | 1813 | Business Park Dr | 19 | 20 | 19 |
| 6 | 2436 | Radio Rd | 25 | 27 | 26 |
| 7 | 668 | Cherry Hill Rd / Kyser Ct | 7 | 7 | 7 |
| 8 | 796 | Provost Ave / Bell Rd | 50 | 8 | 9 |
| 9 | 1018 | Jack Pine Dr | 16 | 11 | 10 |
| 10 | 1476 | Brewbaker Dr | 15 | 14 | 15 |
| 11 | 3253 | Perimeter Pkwy | 31 | 30 | 34 |
| 12 | 1138 | Perimeter Pkwy | 11 | 11 | 12 |
| 13 | 2222 | Unnamed Rd | 21 | 21 | 23 |
| 14 | 1881 | Taylor Rd | 18 | 17 | 20 |
| **Totals** | **20086** | | **261** | **215** | **223** |

# Congestion Management Plan Update

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Study Name : **S US-231 AM SB Study**
Study Date : **12/11/2013**
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## Detailed Statistics By Run

**Average Speed (MPH) by Section**

| Node # | Length | Node Name | Run #1 (S US-231 AM-SB-001 t) | Run #2 (S US-231 AM-SB-002 t) | Run #3 (S US-231 AM-SB-003 t) |
|---|---|---|---|---|---|
| 1 | 0 | South Blvd | | | |
| 2 | 1815 | Virginia Loop Rd / | 41.1 | 42.9 | 43.2 |
| 3 | 1124 | Catherine Dr | 60.8 | 54.7 | 58.5 |
| 4 | 446 | Park Towne Way | 61.4 | 56.5 | 58.6 |
| 5 | 1813 | Business Park Dr | 65.2 | 60.2 | 63.4 |
| 6 | 2436 | Radio Rd | 66.8 | 62.9 | 65.1 |
| 7 | 668 | Cherry Hill Rd / Kyser Ct | 63.9 | 62.9 | 62.7 |
| 8 | 796 | Provost Ave / Bell Rd | 11.0 | 65.0 | 62.4 |
| 9 | 1018 | Jack Pine Dr | 45.3 | 66.9 | 65.6 |
| 10 | 1476 | Brewbaker Dr | 66.1 | 71.1 | 68.1 |
| 11 | 3253 | Perimeter Pkwy | 71.1 | 73.5 | 65.2 |
| 12 | 1138 | Perimeter Pkwy | 71.3 | 72.6 | 66.8 |
| 13 | 2222 | Unnamed Rd | 72.4 | 73.0 | 64.4 |
| 14 | 1881 | Taylor Rd | 71.6 | 72.8 | 64.0 |
| **Totals** | **20086** | | **52.6** | **63.7** | **61.5** |

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Study Name : **S US-231 AM SB Study**
Study Date : **12/11/2013**
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## Detailed Statistics By Run

**Total Delay (sec) by Section**

| Node # | Length | Node Name | Run #1 (S US-231 AM-SB-001 t) | Run #2 (S US-231 AM-SB-002 t) | Run #3 (S US-231 AM-SB-003 t) |
|---|---|---|---|---|---|
| 1 | 0 | South Blvd | | | |
| 2 | 1815 | Virginia Loop Rd / | 8 | 6 | 6 |
| 3 | 1124 | Catherine Dr | 0 | 0 | 0 |
| 4 | 446 | Park Towne Way | 0 | 0 | 0 |
| 5 | 1813 | Business Park Dr | 0 | 0 | 0 |
| 6 | 2436 | Radio Rd | 0 | 0 | 0 |
| 7 | 668 | Cherry Hill Rd / Kyser Ct | 0 | 0 | 0 |
| 8 | 796 | Provost Ave / Bell Rd | 40 | 0 | 0 |
| 9 | 1018 | Jack Pine Dr | 3 | 0 | 0 |
| 10 | 1476 | Brewbaker Dr | 0 | 0 | 0 |
| 11 | 3253 | Perimeter Pkwy | 0 | 0 | 0 |
| 12 | 1138 | Perimeter Pkwy | 0 | 0 | 0 |
| 13 | 2222 | Unnamed Rd | 0 | 0 | 0 |
| 14 | 1881 | Taylor Rd | 0 | 0 | 0 |
| **Totals** | **20086** | | **51** | **6** | **6** |

Total Delay based on a Normal Speed of 55 MPH.

# Congestion Management Plan Update

Montgomery MPO

Study Name : **S US-231 AM SB Study**
Study Date : **12/11/2013**
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## Detailed Statistics By Run

**Time <= 0 MPH by Section**

| Node # | Length | Node Name | Run #1 (S US-231 AM-SB-001 t) | Run #2 (S US-231 AM-SB-002 t) | Run #3 (S US-231 AM-SB-003 t) |
|---|---|---|---|---|---|
| 1 | 0 | South Blvd | | | |
| 2 | 1815 | Virginia Loop Rd / | 0 | 0 | 0 |
| 3 | 1124 | Catherine Dr | 0 | 0 | 0 |
| 4 | 446 | Park Towne Way | 0 | 0 | 0 |
| 5 | 1813 | Business Park Dr | 0 | 0 | 0 |
| 6 | 2436 | Radio Rd | 0 | 0 | 0 |
| 7 | 668 | Cherry Hill Rd / Kyser Ct | 0 | 0 | 0 |
| 8 | 796 | Provost Ave / Bell Rd | 9 | 0 | 0 |
| 9 | 1018 | Jack Pine Dr | 0 | 0 | 0 |
| 10 | 1476 | Brewbaker Dr | 0 | 0 | 0 |
| 11 | 3253 | Perimeter Pkwy | 0 | 0 | 0 |
| 12 | 1138 | Perimeter Pkwy | 0 | 0 | 0 |
| 13 | 2222 | Unnamed Rd | 0 | 0 | 0 |
| 14 | 1881 | Taylor Rd | 0 | 0 | 0 |
| **Totals** | **20086** | | **9** | **0** | **0** |

# Congestion Management Plan Update

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Study Name : **S US-231 AM SB Study**
Study Date : **12/11/2013**
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## Detailed Statistics By Run

**Time <= 40 MPH by Section**

| Node # | Length | Node Name | Run #1 (S US-231 AM-SB-001 t) | Run #2 (S US-231 AM-SB-002 t) | Run #3 (S US-231 AM-SB-003 t) |
|---|---|---|---|---|---|
| 1 | 0 | South Blvd | | | |
| 2 | 1815 | Virginia Loop Rd / | 14 | 11 | 10 |
| 3 | 1124 | Catherine Dr | 0 | 0 | 0 |
| 4 | 446 | Park Towne Way | 0 | 0 | 0 |
| 5 | 1813 | Business Park Dr | 0 | 0 | 0 |
| 6 | 2436 | Radio Rd | 0 | 0 | 0 |
| 7 | 668 | Cherry Hill Rd / Kyser Ct | 0 | 0 | 0 |
| 8 | 796 | Provost Ave / Bell Rd | 44 | 0 | 0 |
| 9 | 1018 | Jack Pine Dr | 5 | 0 | 0 |
| 10 | 1476 | Brewbaker Dr | 0 | 0 | 0 |
| 11 | 3253 | Perimeter Pkwy | 0 | 0 | 0 |
| 12 | 1138 | Perimeter Pkwy | 0 | 0 | 0 |
| 13 | 2222 | Unnamed Rd | 0 | 0 | 0 |
| 14 | 1881 | Taylor Rd | 0 | 0 | 0 |
| **Totals** | **20086** | | **63** | **11** | **10** |

# Congestion Management Plan Update

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Study Name : **S US-231 AM SB Study**
Study Date : **12/11/2013**
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## Detailed Statistics By Run

**Time <= 55 MPH by Section**

| Node # | Length | Node Name | Run #1 (S US-231 AM-SB-001 t) | Run #2 (S US-231 AM-SB-002 t) | Run #3 (S US-231 AM-SB-003 t) |
|---|---|---|---|---|---|
| 1 | 0 | South Blvd | | | |
| 2 | 1815 | Virginia Loop Rd / | 28 | 29 | 23 |
| 3 | 1124 | Catherine Dr | 0 | 9 | 0 |
| 4 | 446 | Park Towne Way | 0 | 0 | 0 |
| 5 | 1813 | Business Park Dr | 0 | 0 | 0 |
| 6 | 2436 | Radio Rd | 0 | 0 | 0 |
| 7 | 668 | Cherry Hill Rd / Kyser Ct | 0 | 0 | 0 |
| 8 | 796 | Provost Ave / Bell Rd | 45 | 0 | 0 |
| 9 | 1018 | Jack Pine Dr | 12 | 0 | 0 |
| 10 | 1476 | Brewbaker Dr | 0 | 0 | 0 |
| 11 | 3253 | Perimeter Pkwy | 0 | 0 | 0 |
| 12 | 1138 | Perimeter Pkwy | 0 | 0 | 0 |
| 13 | 2222 | Unnamed Rd | 0 | 0 | 0 |
| 14 | 1881 | Taylor Rd | 0 | 0 | 0 |
| **Totals** | **20086** | | **85** | **38** | **23** |

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Study Name : **S US-231 AM SB Study**
Study Date : **12/11/2013**
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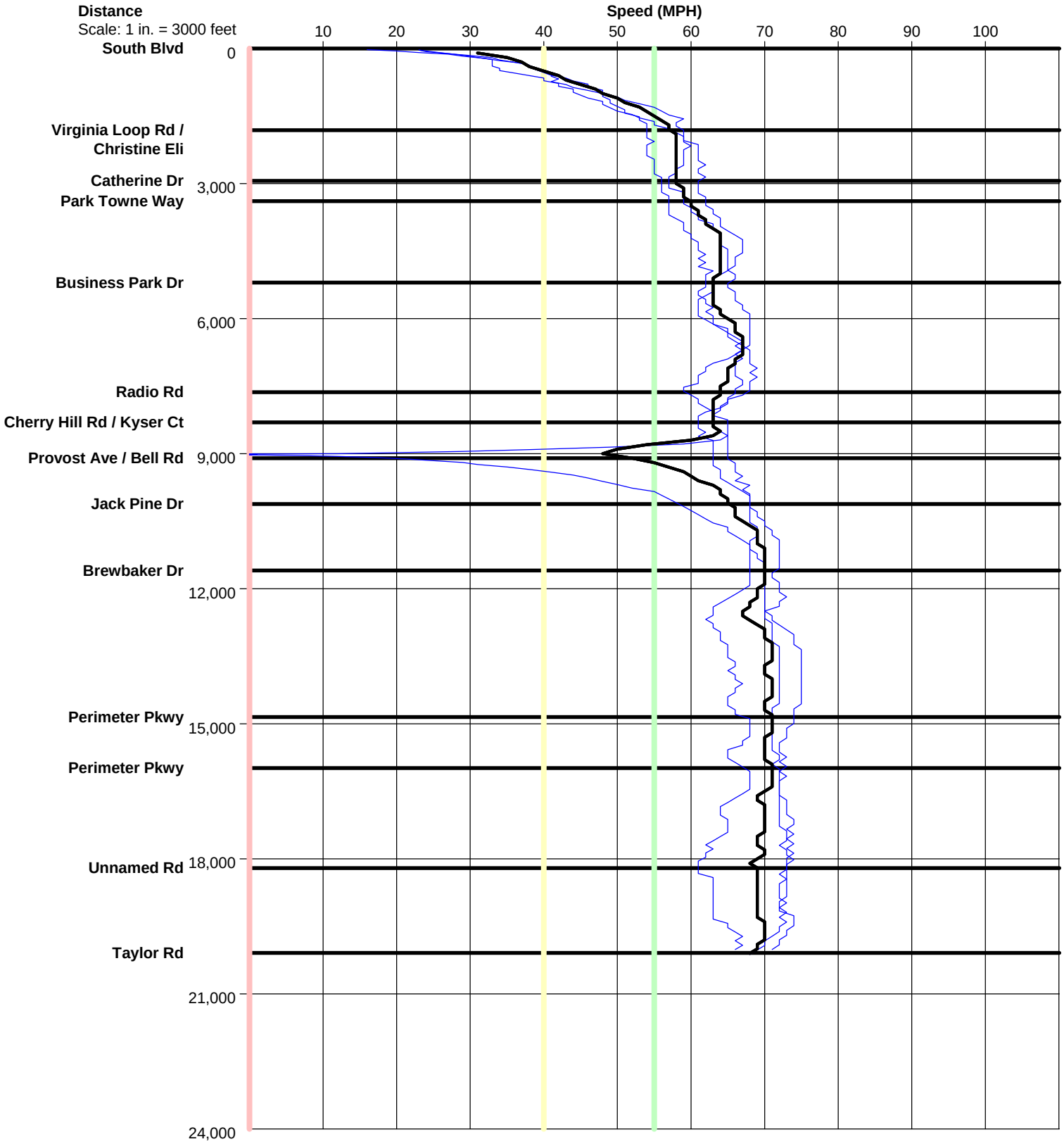
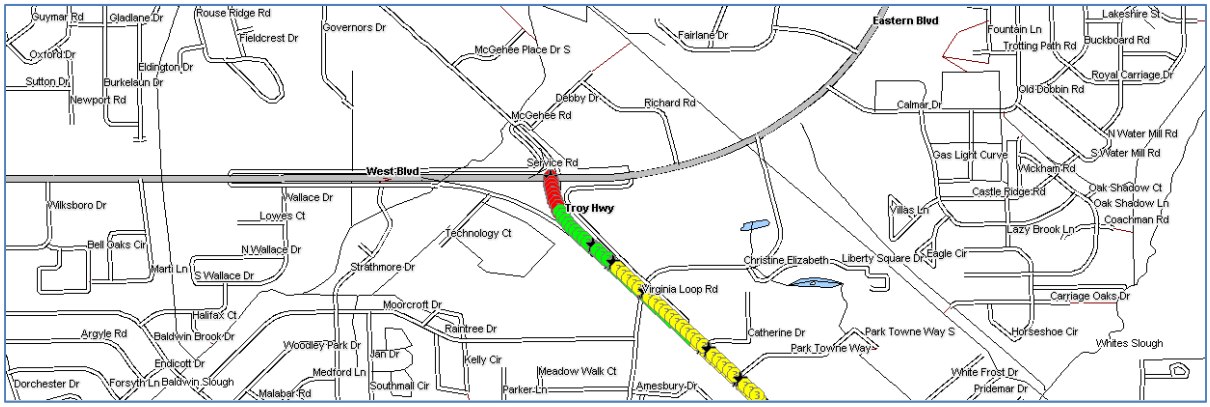
## Speed/Distance Profiles of All Runs



# S US-231 AM SB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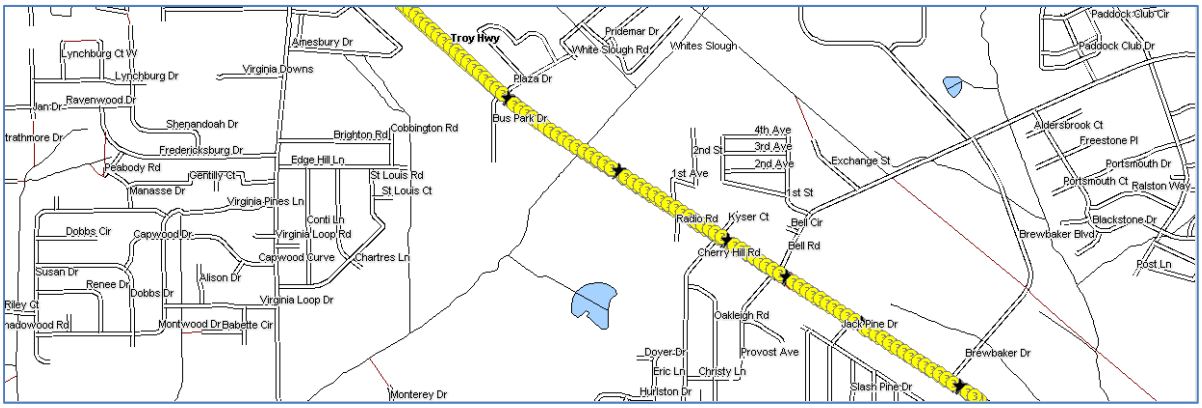
Rouse Ridge Rd
Fieldcrest Dr
Governors Dr
Oxford Dr
Sutton Dr
Burkelsun Dr
Eddington Dr
Newport Rd
McGehee Place Dr S
Fairlane Dr
Eastern Blvd
Fountain Ln
Trotting Path Rd
Lakeshire St
Buckboard Rd
Royal Carriage Dr
Old Dobbin Rd
Debby Dr
Richard Rd
McGehee Rd
Calmar Dr
N Water Mill Rd
S Water Mill Rd
Gas Light Curve
Wickham Rd
Service Rd
West Blvd
Castle Ridge Rd
Oak Shadow Ct
Oak Shadow Ln
Coachman Rd
Wilksboro Dr
Wallace Dr
Lowes Ct
Troy Hwy
Villas Ln
Lazy Brook Ln
Technology Ct
Bell Oaks Cir
N Wallace Dr
Marti Ln
S Wallace Dr
Strathmore Dr
Christine Elizabeth
Liberty Square Dr
Eagle Cir
Virginia Loop Rd
Carriage Oaks Dr
Moorcroft Dr
Halifax Ct
Argyle Rd
Baldwin Brook Dr
Raintree Dr
Catherine Dr
Park Towne Way S
Horseshoe Cir
Whites Slough
Woodley Park Dr
Park Towne Way
Endicott Dr
Jan Dr
Kelly Cir
Medford Ln
Meadow Walk Ct
White Frost Dr
Dorchester Dr
Forsyth Ln
Baldwin Slough
Malabar Rd
Southmall Cir
Parker Ln
Amesbury Dr
Pridemar Dr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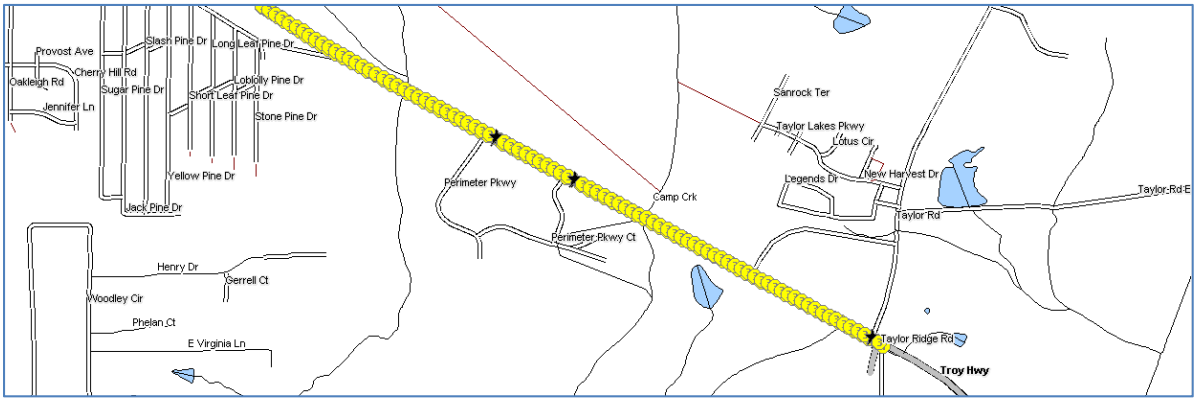
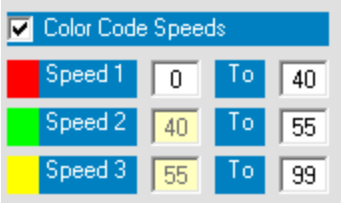
Amesbury Dr
Troy Hwy
Pridemar Dr
White Slough Rd
Whites Slough
Paddock Club Cir
Paddock Club Dr
Lynchburg Dr
Virginia Downs
Plaza Dr
Ravenwood Dr
Bus Park Dr
Shenandoah Dr
Cobbington Rd
Brighton Rd
Fredericksburg Dr
Edge Hill Ln
Peabody Rd
Gentilly Ct
St Louis Rd
St Louis Ct
Manasse Dr
Virginia Pines Ln
Conti Ln
Dobbs Cir
Capwood Dr
Virginia Loop Rd
Capwood Curve
Chartres Ln
Susan Dr
Renee Dr
Alison Dr
Dobbs Dr
Virginia Loop Dr
Montwood Dr
Babette Cir
4th Ave
3rd Ave
2nd Ave
2nd St
1st Ave
1st St
Exchange St
Radio Rd
Kyser Ct
Bell Cir
Bell Rd
Cherry Hill Rd
Oakleigh Rd
Jack Pine Dr
Dover Dr
Provost Ave
Eric Ln
Christy Ln
Hunston Dr
Slash Pine Dr
Monterey Dr
Aldersbrook Ct
Freestone Pl
Portsmouth Dr
Portsmouth Ct
Ralston Way
Blackstone Dr
Brewbaker Blvd
Post Ln
Brewbaker Dr


Provost Ave
Slash Pine Dr
Long Leaf Pine Dr
Cherry Hill Rd
Oakleigh Rd
Sugar Pine Dr
Loblolly Pine Dr
Short Leaf Pine Dr
Jennifer Ln
Stone Pine Dr
Sanrock Ter
Taylor Lakes Pkwy
Lotus Cir
Yellow Pine Dr
Perimeter Pkwy
Legends Dr
New Harvest Dr
Taylor Rd E
Camp Crk
Jack Pine Dr
Taylor Rd
Perimeter Pkwy Ct
Henry Dr
Serrell Ct
Woodley Cir
Phelan Ct
E Virginia Ln
Taylor Ridge Rd
Troy Hwy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Speed 2 40 To 55
Speed 3 55 To 99