

# Binghamton Metropolitan Transportation Study

P.O Box 1766  
Binghamton, NY 13902

Bobby and Matt  
NY 434 and Sycamore and Rano  
Vestal  
Cool

File Name : Not Named 10  
Site Code : 00000225  
Start Date : 6/20/2013  
Page No : 1

## Groups Printed- Unshifted - Heavy Vehicles

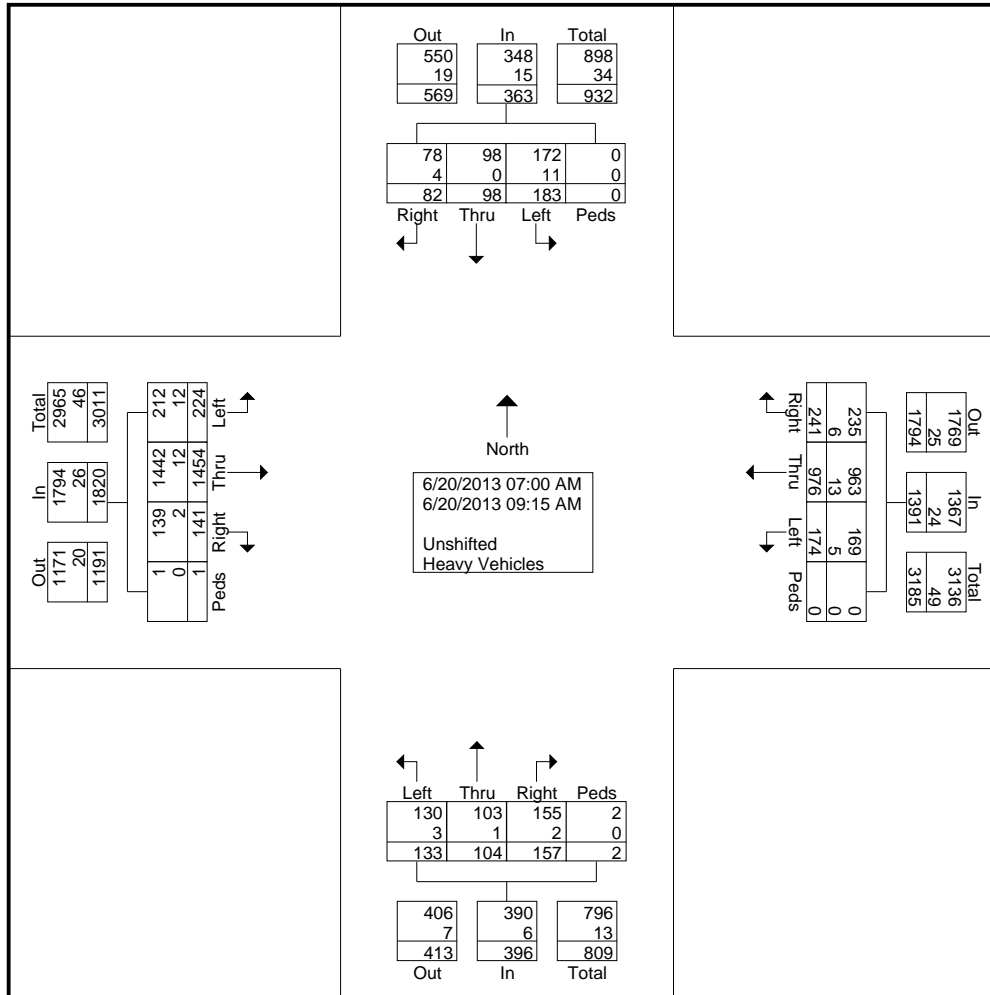
| Start Time       | From North |      |      |      |            | From East |      |      |      |            | From South |      |      |      |            | From West |      |      |      |            | Int. Total |
|------------------|------------|------|------|------|------------|-----------|------|------|------|------------|------------|------|------|------|------------|-----------|------|------|------|------------|------------|
|                  | Right      | Thru | Left | Peds | App. Total | Right     | Thru | Left | Peds | App. Total | Right      | Thru | Left | Peds | App. Total | Right     | Thru | Left | Peds | App. Total |            |
| 07:00 AM         | 2          | 7    | 6    | 0    | 15         | 17        | 82   | 21   | 0    | 120        | 6          | 6    | 9    | 0    | 21         | 11        | 94   | 9    | 0    | 114        | 270        |
| 07:15 AM         | 4          | 5    | 15   | 0    | 24         | 17        | 90   | 11   | 0    | 118        | 17         | 4    | 8    | 0    | 29         | 7         | 119  | 17   | 0    | 143        | 314        |
| 07:30 AM         | 10         | 0    | 11   | 0    | 21         | 18        | 92   | 20   | 0    | 130        | 15         | 7    | 21   | 0    | 43         | 9         | 174  | 21   | 1    | 205        | 399        |
| 07:45 AM         | 5          | 6    | 18   | 0    | 29         | 23        | 94   | 13   | 0    | 130        | 16         | 5    | 16   | 0    | 37         | 7         | 205  | 17   | 0    | 229        | 425        |
| Total            | 21         | 18   | 50   | 0    | 89         | 75        | 358  | 65   | 0    | 498        | 54         | 22   | 54   | 0    | 130        | 34        | 592  | 64   | 1    | 691        | 1408       |
| 08:00 AM         | 9          | 7    | 11   | 0    | 27         | 28        | 93   | 20   | 0    | 141        | 17         | 15   | 6    | 2    | 40         | 16        | 151  | 16   | 0    | 183        | 391        |
| 08:15 AM         | 10         | 17   | 20   | 0    | 47         | 24        | 83   | 18   | 0    | 125        | 17         | 8    | 11   | 0    | 36         | 20        | 153  | 21   | 0    | 194        | 402        |
| 08:30 AM         | 12         | 14   | 26   | 0    | 52         | 21        | 97   | 10   | 0    | 128        | 17         | 12   | 13   | 0    | 42         | 15        | 152  | 26   | 0    | 193        | 415        |
| 08:45 AM         | 8          | 10   | 20   | 0    | 38         | 23        | 106  | 19   | 0    | 148        | 12         | 12   | 20   | 0    | 44         | 14        | 130  | 34   | 0    | 178        | 408        |
| Total            | 39         | 48   | 77   | 0    | 164        | 96        | 379  | 67   | 0    | 542        | 63         | 47   | 50   | 2    | 162        | 65        | 586  | 97   | 0    | 748        | 1616       |
| 09:00 AM         | 9          | 14   | 28   | 0    | 51         | 39        | 124  | 22   | 0    | 185        | 22         | 18   | 13   | 0    | 53         | 23        | 138  | 35   | 0    | 196        | 485        |
| 09:15 AM         | 13         | 18   | 28   | 0    | 59         | 31        | 115  | 20   | 0    | 166        | 18         | 17   | 16   | 0    | 51         | 19        | 138  | 28   | 0    | 185        | 461        |
| Grand Total      | 82         | 98   | 183  | 0    | 363        | 241       | 976  | 174  | 0    | 1391       | 157        | 104  | 133  | 2    | 396        | 141       | 1454 | 224  | 1    | 1820       | 3970       |
| Apprch %         | 22.6       | 27   | 50.4 | 0    |            | 17.3      | 70.2 | 12.5 | 0    |            | 39.6       | 26.3 | 33.6 | 0.5  |            | 7.7       | 79.9 | 12.3 | 0.1  |            |            |
| Total %          | 2.1        | 2.5  | 4.6  | 0    | 9.1        | 6.1       | 24.6 | 4.4  | 0    | 35         | 4          | 2.6  | 3.4  | 0.1  | 10         | 3.6       | 36.6 | 5.6  | 0    | 45.8       |            |
| Unshifted        | 78         | 98   | 172  | 0    | 348        | 235       | 963  | 169  | 0    | 1367       | 155        | 103  | 130  | 2    | 390        | 139       | 1442 | 212  | 1    | 1794       | 3899       |
| % Unshifted      | 95.1       | 100  | 94   | 0    | 95.9       | 97.5      | 98.7 | 97.1 | 0    | 98.3       | 98.7       | 99   | 97.7 | 100  | 98.5       | 98.6      | 99.2 | 94.6 | 100  | 98.6       | 98.2       |
| Heavy Vehicles   | 4          | 0    | 11   | 0    | 15         | 6         | 13   | 5    | 0    | 24         | 2          | 1    | 3    | 0    | 6          | 2         | 12   | 12   | 0    | 26         | 71         |
| % Heavy Vehicles | 4.9        | 0    | 6    | 0    | 4.1        | 2.5       | 1.3  | 2.9  | 0    | 1.7        | 1.3        | 1    | 2.3  | 0    | 1.5        | 1.4       | 0.8  | 5.4  | 0    | 1.4        | 1.8        |

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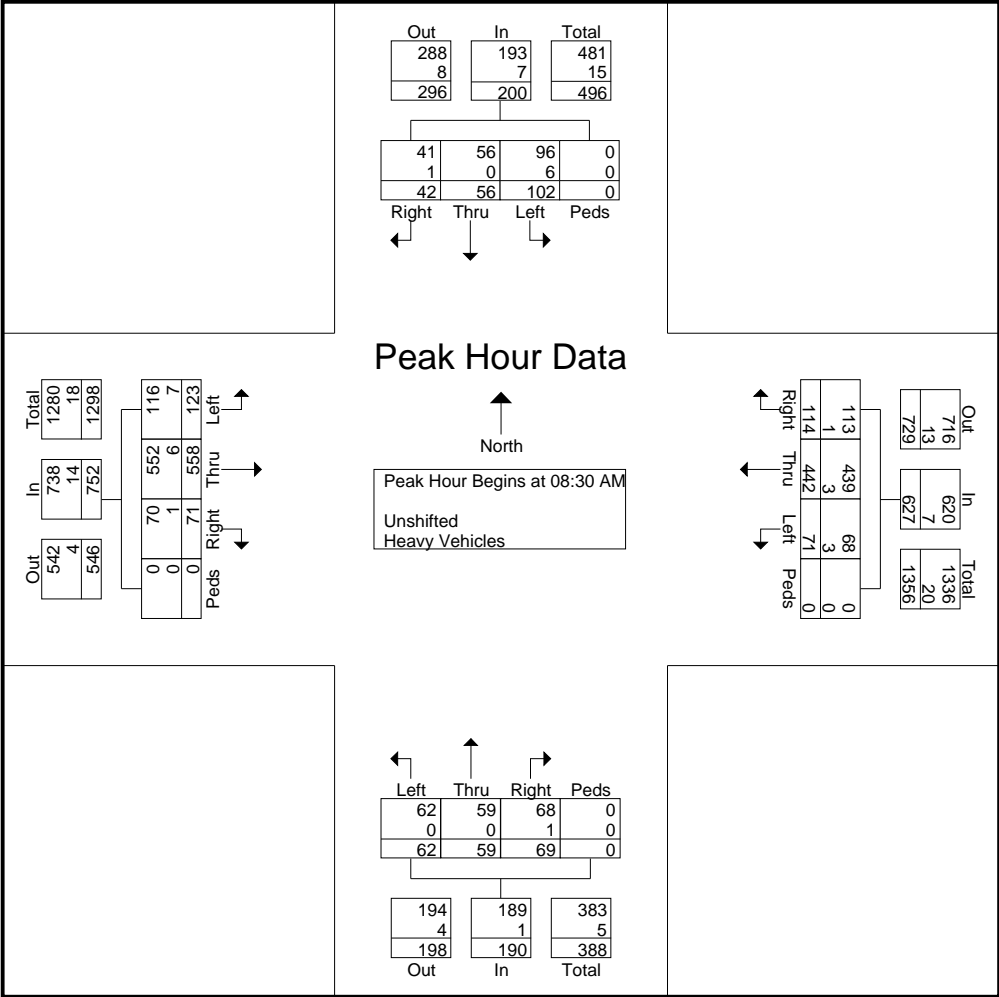
| Start Time   | From North |           |           |      |            | From East |            |           |      |            | From South |           |           |      |            | From West |            |           |      |            | Int. Total |
|--|------------|-----------|-----------|------|------------|-----------|------------|-----------|------|------------|------------|-----------|-----------|------|------------|-----------|------------|-----------|------|------------|------------|
|  | Right      | Thru      | Left      | Peds | App. Total | Right     | Thru       | Left      | Peds | App. Total | Right      | Thru      | Left      | Peds | App. Total | Right     | Thru       | Left      | Peds | App. Total |            |
| Peak Hour Analysis From 07:00 AM to 09:15 AM - Peak 1 of 1 |            |           |           |      |            |           |            |           |      |            |            |           |           |      |            |           |            |           |      |            |            |
| Peak Hour for Entire Intersection Begins at 08:30 AM       |            |           |           |      |            |           |            |           |      |            |            |           |           |      |            |           |            |           |      |            |            |
| 08:30 AM   | 12         | 14        | 26        | 0    | 52         | 21        | 97         | 10        | 0    | 128        | 17         | 12        | 13        | 0    | 42         | 15        | <b>152</b> | 26        | 0    | 193        | 415        |
| 08:45 AM   | 8          | 10        | 20        | 0    | 38         | 23        | 106        | 19        | 0    | 148        | 12         | 12        | <b>20</b> | 0    | 44         | 14        | 130        | 34        | 0    | 178        | 408        |
| 09:00 AM   | 9          | 14        | <b>28</b> | 0    | 51         | <b>39</b> | <b>124</b> | <b>22</b> | 0    | <b>185</b> | <b>22</b>  | <b>18</b> | 13        | 0    | <b>53</b>  | <b>23</b> | 138        | <b>35</b> | 0    | <b>196</b> | <b>485</b> |
| 09:15 AM   | <b>13</b>  | <b>18</b> | 28        | 0    | <b>59</b>  | 31        | 115        | 20        | 0    | 166        | 18         | 17        | 16        | 0    | 51         | 19        | 138        | 28        | 0    | 185        | 461        |
| Total Volume   | 42         | 56        | 102       | 0    | 200        | 114       | 442        | 71        | 0    | 627        | 69         | 59        | 62        | 0    | 190        | 71        | 558        | 123       | 0    | 752        | 1769       |
| % App. Total   | 21         | 28        | 51        | 0    |            | 18.2      | 70.5       | 11.3      | 0    |            | 36.3       | 31.1      | 32.6      | 0    |            | 9.4       | 74.2       | 16.4      | 0    |            |            |
| PHF  | .808       | .778      | .911      | .000 | .847       | .731      | .891       | .807      | .000 | .847       | .784       | .819      | .775      | .000 | .896       | .772      | .918       | .879      | .000 | .959       | .912       |
| Unshifted  | 41         | 56        | 96        | 0    | 193        | 113       | 439        | 68        | 0    | 620        | 68         | 59        | 62        | 0    | 189        | 70        | 552        | 116       | 0    | 738        | 1740       |
| % Unshifted  | 97.6       | 100       | 94.1      | 0    | 96.5       | 99.1      | 99.3       | 95.8      | 0    | 98.9       | 98.6       | 100       | 100       | 0    | 99.5       | 98.6      | 98.9       | 94.3      | 0    | 98.1       | 98.4       |
| Heavy Vehicles   | 1          | 0         | 6         | 0    | 7          | 1         | 3          | 3         | 0    | 7          | 1          | 0         | 0         | 0    | 1          | 1         | 6          | 7         | 0    | 14         | 29         |
| % Heavy Vehicles   | 2.4        | 0         | 5.9       | 0    | 3.5        | 0.9       | 0.7        | 4.2       | 0    | 1.1        | 1.4        | 0         | 0         | 0.5  | 1.4        | 1.1       | 5.7        | 0         | 1.9  | 1.6        |            |

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| Start Time   | From North |      |      |      |            | From East |      |      |      |            | From South |      |      |      |            | From West |      |      |      |            | Int. Total |
|--|------------|------|------|------|------------|-----------|------|------|------|------------|------------|------|------|------|------------|-----------|------|------|------|------------|------------|
|  | Right      | Thru | Left | Peds | App. Total | Right     | Thru | Left | Peds | App. Total | Right      | Thru | Left | Peds | App. Total | Right     | Thru | Left | Peds | App. Total |            |
| Peak Hour Analysis From 07:00 AM to 09:15 AM - Peak 1 of 1 |            |      |      |      |            |           |      |      |      |            |            |      |      |      |            |           |      |      |      |            |            |
| Peak Hour for Each Approach Begins at:                     |            |      |      |      |            |           |      |      |      |            |            |      |      |      |            |           |      |      |      |            |            |
|  | 08:30 AM   |      |      |      |            | 08:30 AM  |      |      |      |            | 08:30 AM   |      |      |      |            | 07:30 AM  |      |      |      |            |            |
| +0 mins.   | 12         | 14   | 26   | 0    | 52         | 21        | 97   | 10   | 0    | 128        | 17         | 12   | 13   | 0    | 42         | 9         | 174  | 21   | 1    | 205        |            |
| +15 mins.  | 8          | 10   | 20   | 0    | 38         | 23        | 106  | 19   | 0    | 148        | 12         | 12   | 20   | 0    | 44         | 7         | 205  | 17   | 0    | 229        |            |
| +30 mins.  | 9          | 14   | 28   | 0    | 51         | 39        | 124  | 22   | 0    | 185        | 22         | 18   | 13   | 0    | 53         | 16        | 151  | 16   | 0    | 183        |            |
| +45 mins.  | 13         | 18   | 28   | 0    | 59         | 31        | 115  | 20   | 0    | 166        | 18         | 17   | 16   | 0    | 51         | 20        | 153  | 21   | 0    | 194        |            |
| Total Volume   | 42         | 56   | 102  | 0    | 200        | 114       | 442  | 71   | 0    | 627        | 69         | 59   | 62   | 0    | 190        | 52        | 683  | 75   | 1    | 811        |            |
| % App. Total   | 21         | 28   | 51   | 0    |            | 18.2      | 70.5 | 11.3 | 0    |            | 36.3       | 31.1 | 32.6 | 0    |            | 6.4       | 84.2 | 9.2  | 0.1  |            |            |
| PHF  | .808       | .778 | .911 | .000 | .847       | .731      | .891 | .807 | .000 | .847       | .784       | .819 | .775 | .000 | .896       | .650      | .833 | .893 | .250 | .885       |            |
| Unshifted  | 41         | 56   | 96   | 0    | 193        | 113       | 439  | 68   | 0    | 620        | 68         | 59   | 62   | 0    | 189        | 52        | 678  | 70   | 1    | 801        |            |
| % Unshifted  | 97.6       | 100  | 94.1 | 0    | 96.5       | 99.1      | 99.3 | 95.8 | 0    | 98.9       | 98.6       | 100  | 100  | 0    | 99.5       | 100       | 99.3 | 93.3 | 100  | 98.8       |            |
| Heavy Vehicles   | 1          | 0    | 6    | 0    | 7          | 1         | 3    | 3    | 0    | 7          | 1          | 0    | 0    | 0    | 1          | 0         | 5    | 5    | 0    | 10         |            |
| % Heavy Vehicles   | 2.4        | 0    | 5.9  | 0    | 3.5        | 0.9       | 0.7  | 4.2  | 0    | 1.1        | 1.4        | 0    | 0    | 0    | 0.5        | 0         | 0.7  | 6.7  | 0    | 1.2        |            |

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