

# Intersection Traffic Counts

Intersection: #10 CSAH101 & Hutchins Dr

Count Date(s): Thu, Mar 1, 2018

Peaks: 6-9:30AM, 11AM-1PM, 2:30-6PM

Prepared by: Associated Consulting Services LLC

www.acsteam.com

(612) 568-3227

| All Vehicles_Entire Duration (6-9:30AM, 11AM-1PM, 2:30-6PM) at #10 CSAH101 & Hutchins Dr |                         |     |      |     |      |      |                       |     |     |     |      |      |                         |     |      |     |      |      |                       |      |     |     |      |      |                  |                  |
|--|-------------------------|-----|------|-----|------|------|-----------------------|-----|-----|-----|------|------|-------------------------|-----|------|-----|------|------|-----------------------|------|-----|-----|------|------|------------------|------------------|
| Start Time   | From North (Southbound) |     |      |     |      |      | From East (Westbound) |     |     |     |      |      | From South (Northbound) |     |      |     |      |      | From West (Eastbound) |      |     |     |      |      | 15-min Veh Total | 15-min Ped Total |
|  | U                       | L   | T    | R   | App  | Ped* | U                     | L   | T   | R   | App  | Ped* | U                       | L   | T    | R   | App  | Ped* | U                     | L    | T   | R   | App  | Ped* |                  |                  |
| 6:00   | -                       | 5   | 18   | 5   | 28   | -    | -                     | -   | -   | -   | -    | -    | -                       | 4   | 38   | 1   | 43   | -    | -                     | 1    | -   | -   | -    | 72   | -                |                  |
| 6:15   | 1                       | 2   | 19   | 12  | 34   | -    | -                     | 1   | -   | 2   | 3    | -    | -                       | 2   | 47   | 1   | 50   | -    | -                     | 4    | -   | 1   | 5    | -    | 92               | -                |
| 6:30   | -                       | 4   | 42   | 10  | 56   | -    | -                     | -   | 1   | 2   | 3    | -    | 2                       | 3   | 73   | 1   | 79   | -    | -                     | 6    | -   | -   | 6    | -    | 144              | -                |
| 6:45   | -                       | 7   | 104  | 15  | 126  | -    | -                     | 2   | -   | 2   | 4    | -    | 1                       | 4   | 84   | 2   | 91   | -    | -                     | 4    | 1   | 4   | 9    | -    | 230              | -                |
| 7:00   | -                       | 5   | 138  | 14  | 157  | -    | -                     | 4   | -   | 1   | 5    | -    | 3                       | 5   | 120  | 5   | 133  | -    | -                     | 18   | 1   | 5   | 24   | -    | 319              | -                |
| 7:15   | -                       | 3   | 145  | 31  | 179  | -    | -                     | 1   | 1   | 4   | 6    | -    | 2                       | 12  | 176  | 6   | 196  | 1    | -                     | 22   | -   | 4   | 26   | -    | 407              | 1                |
| 7:30   | 1                       | 4   | 190  | 48  | 243  | -    | -                     | -   | 3   | -   | 3    | -    | 2                       | 23  | 185  | 2   | 212  | -    | -                     | 31   | 5   | 5   | 41   | -    | 499              | -                |
| 7:45   | -                       | 10  | 167  | 52  | 229  | -    | -                     | 2   | 5   | 4   | 11   | -    | 6                       | 22  | 191  | 16  | 235  | -    | -                     | 41   | 3   | 5   | 49   | -    | 524              | -                |
| 8:00   | 2                       | 5   | 114  | 23  | 144  | -    | -                     | 7   | 1   | 4   | 12   | -    | -                       | 8   | 154  | 5   | 167  | -    | -                     | 38   | 2   | 4   | 44   | 1    | 367              | 1                |
| 8:15   | -                       | 1   | 154  | 22  | 177  | -    | -                     | 3   | -   | 2   | 5    | -    | 2                       | 7   | 156  | 5   | 170  | -    | -                     | 19   | 3   | 4   | 26   | -    | 378              | -                |
| 8:30   | 1                       | 6   | 117  | 25  | 149  | -    | -                     | 1   | 1   | 2   | 4    | -    | -                       | 9   | 192  | 3   | 204  | -    | -                     | 19   | 2   | 6   | 27   | -    | 384              | -                |
| 8:45   | -                       | 8   | 89   | 18  | 115  | -    | -                     | 5   | -   | 4   | 9    | -    | -                       | 8   | 119  | 8   | 135  | -    | -                     | 18   | -   | 8   | 26   | -    | 285              | -                |
| 9:00   | 2                       | 6   | 90   | 19  | 117  | -    | -                     | 2   | -   | 4   | 6    | -    | -                       | 7   | 86   | 7   | 100  | -    | -                     | 16   | 1   | 2   | 19   | -    | 242              | -                |
| 9:15   | 3                       | 6   | 56   | 6   | 71   | -    | -                     | 2   | -   | 7   | 9    | -    | -                       | 5   | 111  | 2   | 118  | -    | -                     | 27   | -   | 4   | 31   | -    | 229              | -                |
| 9:30   | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 9:45   | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 10:00  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 10:15  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 10:30  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 10:45  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 11:00  | 3                       | 5   | 72   | 11  | 91   | -    | -                     | 5   | -   | 16  | 21   | -    | -                       | 9   | 98   | 5   | 112  | -    | -                     | 32   | 1   | 10  | 43   | -    | 267              | -                |
| 11:15  | 2                       | 11  | 91   | 9   | 113  | -    | -                     | 5   | 2   | 8   | 15   | -    | -                       | 12  | 84   | 3   | 99   | -    | -                     | 28   | -   | 9   | 37   | -    | 264              | -                |
| 11:30  | 6                       | 10  | 92   | 18  | 126  | -    | -                     | 3   | 1   | 11  | 15   | -    | 1                       | 6   | 92   | 11  | 110  | -    | -                     | 35   | -   | 11  | 46   | -    | 297              | -                |
| 11:45  | 3                       | 17  | 83   | 22  | 125  | 1    | -                     | 7   | 1   | 14  | 22   | -    | 2                       | 8   | 80   | 12  | 102  | 1    | -                     | 29   | 1   | 10  | 40   | -    | 289              | 2                |
| 12:00  | 4                       | 16  | 94   | 11  | 125  | -    | -                     | 7   | 4   | 15  | 26   | 1    | -                       | 9   | 100  | 6   | 115  | -    | -                     | 46   | 2   | 8   | 56   | -    | 322              | 1                |
| 12:15  | 4                       | 14  | 96   | 18  | 132  | -    | -                     | 3   | 3   | 16  | 22   | -    | -                       | 4   | 100  | 7   | 111  | -    | -                     | 31   | 3   | 4   | 38   | -    | 303              | -                |
| 12:30  | 3                       | 11  | 90   | 16  | 120  | -    | -                     | 12  | -   | 9   | 21   | -    | -                       | 10  | 91   | 11  | 112  | 2    | -                     | 45   | 2   | 14  | 61   | -    | 314              | 2                |
| 12:45  | 2                       | 16  | 89   | 13  | 120  | -    | -                     | 7   | 2   | 20  | 29   | -    | -                       | 16  | 93   | 11  | 120  | 1    | -                     | 37   | 4   | 7   | 48   | -    | 317              | 1                |
| 13:00  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 13:15  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 13:30  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 13:45  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 14:00  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 14:15  | -                       | -   | -    | -   | -    | -    | -                     | -   | -   | -   | -    | -    | -                       | -   | -    | -   | -    | -    | -                     | -    | -   | -   | -    | -    | -                | -                |
| 14:30  | 5                       | 13  | 130  | 16  | 164  | -    | -                     | 10  | 1   | 10  | 21   | -    | -                       | 9   | 106  | 10  | 125  | -    | -                     | 50   | 3   | 4   | 57   | -    | 367              | -                |
| 14:45  | 5                       | 15  | 123  | 16  | 159  | -    | -                     | 9   | 2   | 20  | 31   | -    | -                       | 10  | 156  | 13  | 179  | 1    | -                     | 77   | 3   | 16  | 96   | -    | 465              | 1                |
| 15:00  | 4                       | 20  | 124  | 20  | 168  | -    | -                     | 8   | 1   | 16  | 25   | -    | -                       | 6   | 141  | 8   | 155  | 2    | -                     | 56   | -   | 8   | 64   | 1    | 412              | 3                |
| 15:15  | 3                       | 12  | 144  | 19  | 178  | -    | -                     | 2   | -   | 13  | 15   | -    | -                       | 15  | 150  | 1   | 166  | -    | -                     | 40   | 3   | 10  | 53   | 2    | 412              | 2                |
| 15:30  | 2                       | 18  | 128  | 26  | 174  | -    | -                     | 1   | 2   | 11  | 14   | -    | 1                       | 17  | 187  | 5   | 210  | -    | -                     | 42   | 1   | 15  | 58   | -    | 456              | -                |
| 15:45  | 4                       | 18  | 142  | 28  | 192  | -    | -                     | 10  | 3   | 26  | 39   | -    | 1                       | 14  | 147  | 10  | 172  | -    | -                     | 26   | -   | 23  | 49   | 4    | 452              | 4                |
| 16:00  | -                       | 10  | 162  | 19  | 191  | 2    | -                     | 9   | -   | 18  | 27   | -    | -                       | 17  | 147  | 6   | 170  | -    | -                     | 38   | 5   | 8   | 51   | 5    | 439              | 7                |
| 16:15  | 2                       | 6   | 157  | 25  | 190  | -    | -                     | 2   | 2   | 18  | 22   | -    | -                       | 12  | 144  | 8   | 164  | -    | -                     | 42   | 2   | 15  | 59   | 1    | 435              | 1                |
| 16:30  | 5                       | 12  | 140  | 21  | 178  | -    | -                     | 5   | 1   | 10  | 16   | -    | -                       | 11  | 164  | 8   | 183  | -    | -                     | 55   | 2   | 11  | 68   | -    | 445              | -                |
| 16:45  | 2                       | 17  | 160  | 33  | 212  | 1    | -                     | 10  | 2   | 17  | 29   | -    | -                       | 9   | 217  | 9   | 235  | -    | -                     | 46   | 1   | 9   | 56   | 5    | 532              | 6                |
| 17:00  | 1                       | 9   | 182  | 14  | 206  | 1    | -                     | 12  | 3   | 25  | 40   | -    | -                       | 16  | 212  | 8   | 236  | -    | -                     | 49   | 3   | 12  | 64   | 1    | 546              | 2                |
| 17:15  | 1                       | 11  | 147  | 28  | 187  | -    | -                     | 8   | 3   | 20  | 31   | -    | -                       | 15  | 218  | 7   | 240  | -    | -                     | 61   | -   | 4   | 65   | -    | 523              | -                |
| 17:30  | 2                       | 13  | 141  | 22  | 178  | -    | -                     | 3   | 3   | 12  | 18   | -    | -                       | 16  | 166  | 12  | 194  | -    | -                     | 42   | -   | 9   | 51   | -    | 441              | -                |
| 17:45  | 3                       | 11  | 148  | 22  | 184  | -    | -                     | 12  | 2   | 15  | 29   | -    | -                       | 15  | 161  | 7   | 183  | -    | -                     | 36   | 3   | 13  | 52   | -    | 448              | -                |
| <b>Total</b>   | 76                      | 357 | 4178 | 727 | 5338 | 5    | -                     | 180 | 50  | 378 | 608  | 1    | 23                      | 375 | 4786 | 242 | 5426 | 8    | -                     | 1207 | 57  | 282 | 1546 | 20   | 12918            | 34               |
| <b>% App</b>   | 1%                      | 7%  | 78%  | 14% | 100% | -    | -                     | 30% | 8%  | 62% | 100% | -    | 0%                      | 7%  | 88%  | 4%  | 100% | -    | -                     | 78%  | 4%  | 18% | 100% | -    | -                | -                |
| <b>% Total</b>   | 1%                      | 3%  | 32%  | 6%  | 41%  | 15%  | -                     | 1%  | 0%  | 3%  | 5%   | 3%   | 0%                      | 3%  | 37%  | 2%  | 42%  | 24%  | -                     | 9%   | 0%  | 2%  | 12%  | 59%  | 100%             | 100%             |
| <b>Passenger Vehicles</b>  | 76                      | 350 | 4057 | 711 | 5194 | -    | -                     | 175 | 47  | 365 | 587  | -    | 23                      | 369 | 4672 | 235 | 5299 | -    | -                     | 1181 | 48  | 277 | 1506 | -    | 12586            | -                |
| <b>Passenger Vehicles %</b>  | 100%                    | 98% | 97%  | 98% | 97%  | -    | -                     | 97% | 94% | 97% | 97%  | -    | 100%                    | 98% | 98%  | 97% | 98%  | -    | -                     | 98%  | 84% | 98% | 97%  | -    | 97%              | -                |
| <b>HC Vehicles</b>   | -                       | 7   | 121  | 16  | 144  | -    | -                     | 5   | 3   | 13  | 21   | -    | -                       | 6   | 114  | 7   | 127  | -    | -                     | 26   | 9   | 5   | 40   | -    | 332              | -                |
| <b>HC Vehicles %</b>   | -                       | 2%  | 3%   | 2%  | 3%   | -    | -                     | 3%  | 6%  | 3%  | 3%   | -    | -                       | 2%  | 2%   | 3%  | 2%   | -    | -                     | 2%   | 16% | 2%  | 3%   | -    | 3%               | -                |

U = U-Turn, L = Left, T = Thru, R = Right, App = Approach Total  
 asterisk (\*) indicates pedestrians and bicyclists on crosswalk  
 dash (-) in the table indicates zero or not applicable  
 % App = percentage of specific movement total in relation to its approach total  
 % Total = percentage of specific movement total in relation to its intersection total  
 Passenger Vehicles % = percentage of passenger vehicle total in a specific movement  
 HC Vehicles % = percentage of heavy commercial vehicle total in a specific movement

# Intersection Traffic Counts

**Intersection:** #10 CSAH101 & Hutchins Dr  
**Count Date(s):** Thu, Mar 1, 2018  
**Peaks:** 6-9:30AM, 11AM-1PM, 2:30-6PM

**Prepared by:** Associated Consulting Services LLC  
 www.acsteam.com  
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| All Vehicles_AM Peak (7:15AM-8:15AM) at #10 CSAH101 & Hutchins Dr |                         |       |       |       |       |      |                       |       |       |       |       |      |                         |       |       |       |       |      |                       |       |       |       |       |      |                  |                  |      |
|---|-------------------------|-------|-------|-------|-------|------|-----------------------|-------|-------|-------|-------|------|-------------------------|-------|-------|-------|-------|------|-----------------------|-------|-------|-------|-------|------|------------------|------------------|------|
| Start Time  | From North (Southbound) |       |       |       |       |      | From East (Westbound) |       |       |       |       |      | From South (Northbound) |       |       |       |       |      | From West (Eastbound) |       |       |       |       |      | 15-min Veh Total | 15-min Ped Total |      |
|   | U                       | L     | T     | R     | App   | Ped* | U                     | L     | T     | R     | App   | Ped* | U                       | L     | T     | R     | App   | Ped* | U                     | L     | T     | R     | App   | Ped* |                  |                  |      |
| 7:15  | -                       | 3     | 145   | 31    | 179   | -    | -                     | 1     | 1     | 4     | 6     | -    | 2                       | 12    | 176   | 6     | 196   | 1    | -                     | 22    | -     | 4     | 26    | -    | -                | 407              | 1    |
| 7:30  | 1                       | 4     | 190   | 48    | 243   | -    | -                     | -     | 3     | -     | 3     | -    | 2                       | 23    | 185   | 2     | 212   | -    | -                     | 31    | 5     | 5     | 41    | -    | -                | 499              | -    |
| 7:45  | -                       | 10    | 167   | 52    | 229   | -    | -                     | 2     | 5     | 4     | 11    | -    | 6                       | 22    | 191   | 16    | 235   | -    | -                     | 41    | 3     | 5     | 49    | -    | -                | 524              | -    |
| 8:00  | 2                       | 5     | 114   | 23    | 144   | -    | -                     | 7     | 1     | 4     | 12    | -    | -                       | 8     | 154   | 5     | 167   | -    | -                     | 38    | 2     | 4     | 44    | 1    | -                | 367              | 1    |
| <b>Total</b>  | 3                       | 22    | 616   | 154   | 795   | -    | -                     | 10    | 10    | 12    | 32    | -    | 10                      | 65    | 706   | 29    | 810   | 1    | -                     | 132   | 10    | 18    | 160   | 1    | -                | 1797             | 2    |
| <b>% App</b>  | 0%                      | 3%    | 77%   | 19%   | 100%  | -    | -                     | 31%   | 31%   | 38%   | 100%  | -    | 1%                      | 8%    | 87%   | 4%    | 100%  | -    | -                     | 83%   | 6%    | 11%   | 100%  | -    | -                | -                | -    |
| <b>% Total</b>  | 0%                      | 1%    | 34%   | 9%    | 44%   | -    | -                     | 1%    | 1%    | 1%    | 2%    | -    | 1%                      | 4%    | 39%   | 2%    | 45%   | 50%  | -                     | 7%    | 1%    | 1%    | 9%    | 50%  | -                | 100%             | 100% |
| <b>PHF</b>  | 0.375                   | 0.550 | 0.811 | 0.740 | 0.818 | -    | -                     | 0.357 | 0.500 | 0.750 | 0.667 | -    | 0.417                   | 0.707 | 0.924 | 0.453 | 0.862 | -    | -                     | 0.805 | 0.500 | 0.900 | 0.816 | -    | -                | 0.857            | -    |
| <b>Passenger Vehicles</b>   | 3                       | 21    | 590   | 150   | 764   | -    | -                     | 7     | 8     | 11    | 26    | -    | 10                      | 64    | 699   | 29    | 802   | -    | -                     | 121   | 3     | 17    | 141   | -    | -                | 1733             | -    |
| <b>Passenger Vehicles %</b>                                       | 100%                    | 95%   | 96%   | 97%   | 96%   | -    | -                     | 70%   | 80%   | 92%   | 81%   | -    | 100%                    | 98%   | 99%   | 100%  | 99%   | -    | -                     | 92%   | 30%   | 94%   | 88%   | -    | -                | 96%              | -    |
| <b>HC Vehicles</b>  | -                       | 1     | 26    | 4     | 31    | -    | -                     | 3     | 2     | 1     | 6     | -    | -                       | 1     | 7     | -     | 8     | -    | -                     | 11    | 7     | 1     | 19    | -    | -                | 64               | -    |
| <b>HC Vehicles %</b>  | -                       | 5%    | 4%    | 3%    | 4%    | -    | -                     | 30%   | 20%   | 8%    | 19%   | -    | -                       | 2%    | 1%    | -     | 1%    | -    | -                     | 8%    | 70%   | 6%    | 12%   | -    | -                | 4%               | -    |

| All Vehicles_Midday Peak (12:00PM-1:00PM) at #10 CSAH101 & Hutchins Dr |                         |       |       |       |       |      |                       |       |       |       |       |      |                         |       |       |       |       |      |                       |       |       |       |       |      |                  |                  |      |
|--|-------------------------|-------|-------|-------|-------|------|-----------------------|-------|-------|-------|-------|------|-------------------------|-------|-------|-------|-------|------|-----------------------|-------|-------|-------|-------|------|------------------|------------------|------|
| Start Time   | From North (Southbound) |       |       |       |       |      | From East (Westbound) |       |       |       |       |      | From South (Northbound) |       |       |       |       |      | From West (Eastbound) |       |       |       |       |      | 15-min Veh Total | 15-min Ped Total |      |
|  | U                       | L     | T     | R     | App   | Ped* | U                     | L     | T     | R     | App   | Ped* | U                       | L     | T     | R     | App   | Ped* | U                     | L     | T     | R     | App   | Ped* |                  |                  |      |
| 12:00  | 4                       | 16    | 94    | 11    | 125   | -    | -                     | 7     | 4     | 15    | 26    | 1    | -                       | 9     | 100   | 6     | 115   | -    | -                     | 46    | 2     | 8     | 56    | -    | -                | 322              | 1    |
| 12:15  | 4                       | 14    | 96    | 18    | 132   | -    | -                     | 3     | 3     | 16    | 22    | -    | -                       | 4     | 100   | 7     | 111   | -    | -                     | 31    | 3     | 4     | 38    | -    | -                | 303              | -    |
| 12:30  | 3                       | 11    | 90    | 16    | 120   | -    | -                     | 12    | -     | 9     | 21    | -    | -                       | 10    | 91    | 11    | 112   | 2    | -                     | 45    | 2     | 14    | 61    | -    | -                | 314              | 2    |
| 12:45  | 2                       | 16    | 89    | 13    | 120   | -    | -                     | 7     | 2     | 20    | 29    | -    | -                       | 16    | 93    | 11    | 120   | 1    | -                     | 37    | 4     | 7     | 48    | -    | -                | 317              | 1    |
| <b>Total</b>   | 13                      | 57    | 369   | 58    | 497   | -    | -                     | 29    | 9     | 60    | 98    | 1    | -                       | 39    | 384   | 35    | 458   | 3    | -                     | 159   | 11    | 33    | 203   | -    | -                | 1256             | 4    |
| <b>% App</b>   | 3%                      | 11%   | 74%   | 12%   | 100%  | -    | -                     | 30%   | 9%    | 61%   | 100%  | -    | -                       | 9%    | 84%   | 8%    | 100%  | -    | -                     | 78%   | 5%    | 16%   | 100%  | -    | -                | -                | -    |
| <b>% Total</b>   | 1%                      | 5%    | 29%   | 5%    | 40%   | -    | -                     | 2%    | 1%    | 5%    | 8%    | 25%  | -                       | 3%    | 31%   | 3%    | 36%   | 75%  | -                     | 13%   | 1%    | 3%    | 16%   | -    | -                | 100%             | 100% |
| <b>PHF</b>   | 0.813                   | 0.891 | 0.961 | 0.806 | 0.941 | -    | -                     | 0.604 | 0.563 | 0.750 | 0.845 | -    | -                       | 0.609 | 0.960 | 0.795 | 0.954 | -    | -                     | 0.864 | 0.688 | 0.589 | 0.832 | -    | -                | 0.975            | -    |
| <b>Passenger Vehicles</b>  | 13                      | 56    | 355   | 57    | 481   | -    | -                     | 28    | 9     | 58    | 95    | -    | -                       | 39    | 373   | 34    | 446   | -    | -                     | 158   | 9     | 33    | 200   | -    | -                | 1222             | -    |
| <b>Passenger Vehicles %</b>  | 100%                    | 98%   | 96%   | 98%   | 97%   | -    | -                     | 97%   | 100%  | 97%   | 97%   | -    | -                       | 100%  | 97%   | 97%   | 97%   | -    | -                     | 99%   | 82%   | 100%  | 99%   | -    | -                | 97%              | -    |
| <b>HC Vehicles</b>   | -                       | 1     | 14    | 1     | 16    | -    | -                     | 1     | -     | 2     | 3     | -    | -                       | -     | 11    | 1     | 12    | -    | -                     | 1     | 2     | -     | 3     | -    | -                | 34               | -    |
| <b>HC Vehicles %</b>   | -                       | 2%    | 4%    | 2%    | 3%    | -    | -                     | 3%    | -     | 3%    | 3%    | -    | -                       | -     | 3%    | 3%    | 3%    | -    | -                     | 1%    | 18%   | -     | 1%    | -    | -                | 3%               | -    |

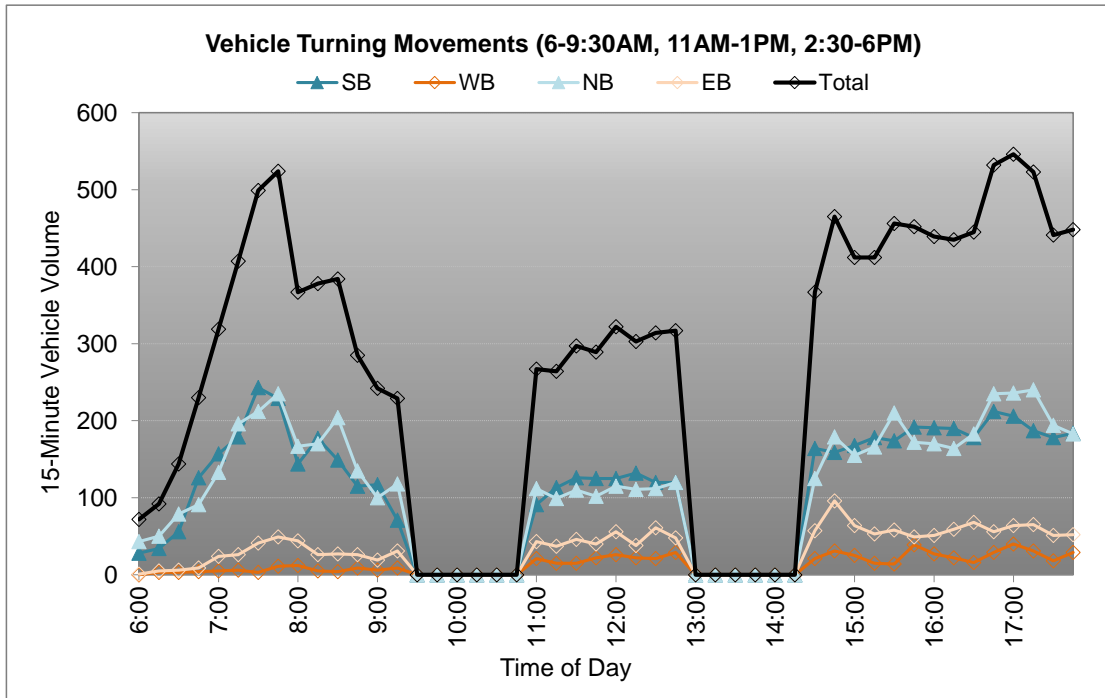
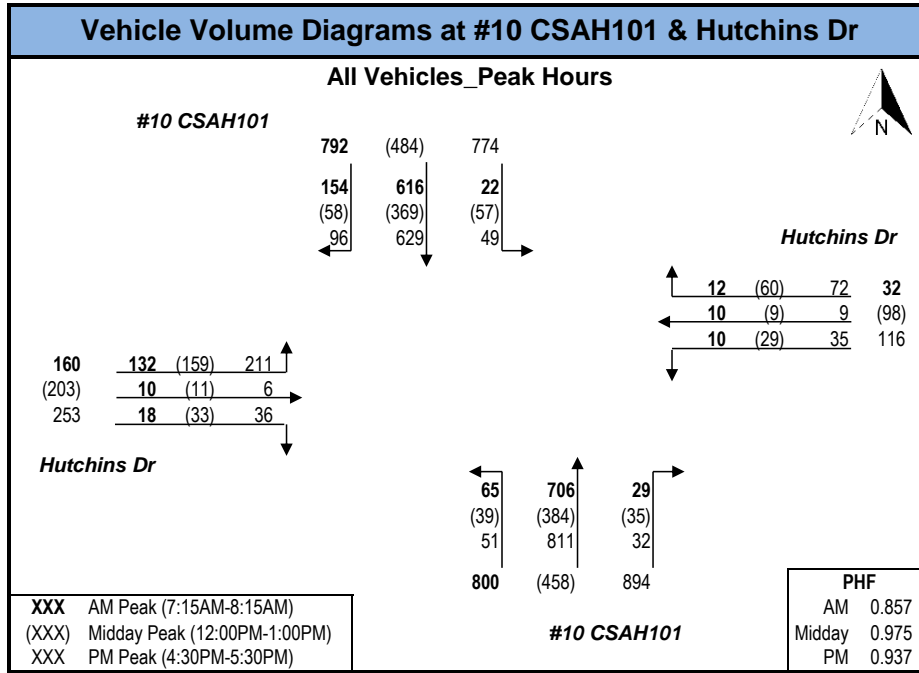
| All Vehicles_PM Peak (4:30PM-5:30PM) at #10 CSAH101 & Hutchins Dr |                         |       |       |       |       |      |                       |       |       |       |       |      |                         |       |       |       |       |      |                       |       |       |       |       |      |                  |                  |      |
|---|-------------------------|-------|-------|-------|-------|------|-----------------------|-------|-------|-------|-------|------|-------------------------|-------|-------|-------|-------|------|-----------------------|-------|-------|-------|-------|------|------------------|------------------|------|
| Start Time  | From North (Southbound) |       |       |       |       |      | From East (Westbound) |       |       |       |       |      | From South (Northbound) |       |       |       |       |      | From West (Eastbound) |       |       |       |       |      | 15-min Veh Total | 15-min Ped Total |      |
|   | U                       | L     | T     | R     | App   | Ped* | U                     | L     | T     | R     | App   | Ped* | U                       | L     | T     | R     | App   | Ped* | U                     | L     | T     | R     | App   | Ped* |                  |                  |      |
| 16:30   | 5                       | 12    | 140   | 21    | 178   | -    | -                     | 5     | 1     | 10    | 16    | -    | -                       | 11    | 164   | 8     | 183   | -    | -                     | 55    | 2     | 11    | 68    | -    | -                | 445              | -    |
| 16:45   | 2                       | 17    | 160   | 33    | 212   | 1    | -                     | 10    | 2     | 17    | 29    | -    | -                       | 9     | 217   | 9     | 235   | -    | -                     | 46    | 1     | 9     | 56    | 5    | -                | 532              | 6    |
| 17:00   | 1                       | 9     | 182   | 14    | 206   | 1    | -                     | 12    | 3     | 25    | 40    | -    | -                       | 16    | 212   | 8     | 236   | -    | -                     | 49    | 3     | 12    | 64    | 1    | -                | 546              | 2    |
| 17:15   | 1                       | 11    | 147   | 28    | 187   | -    | -                     | 8     | 3     | 20    | 31    | -    | -                       | 15    | 218   | 7     | 240   | -    | -                     | 61    | -     | 4     | 65    | -    | -                | 523              | -    |
| <b>Total</b>  | 9                       | 49    | 629   | 96    | 783   | 2    | -                     | 35    | 9     | 72    | 116   | -    | -                       | 51    | 811   | 32    | 894   | -    | -                     | 211   | 6     | 36    | 253   | 6    | -                | 2046             | 8    |
| <b>% App</b>  | 1%                      | 6%    | 80%   | 12%   | 100%  | -    | -                     | 30%   | 8%    | 62%   | 100%  | -    | -                       | 6%    | 91%   | 4%    | 100%  | -    | -                     | 83%   | 2%    | 14%   | 100%  | -    | -                | -                | -    |
| <b>% Total</b>  | 0%                      | 2%    | 31%   | 5%    | 38%   | 25%  | -                     | 2%    | 0%    | 4%    | 6%    | -    | -                       | 2%    | 40%   | 2%    | 44%   | -    | -                     | 10%   | 0%    | 2%    | 12%   | 75%  | -                | 100%             | 100% |
| <b>PHF</b>  | 0.450                   | 0.721 | 0.864 | 0.727 | 0.923 | -    | -                     | 0.729 | 0.750 | 0.720 | 0.725 | -    | -                       | 0.797 | 0.930 | 0.889 | 0.931 | -    | -                     | 0.865 | 0.500 | 0.750 | 0.930 | -    | -                | 0.937            | -    |
| <b>Passenger Vehicles</b>   | 9                       | 49    | 624   | 94    | 776   | -    | -                     | 35    | 9     | 70    | 114   | -    | -                       | 50    | 803   | 32    | 885   | -    | -                     | 209   | 6     | 36    | 251   | -    | -                | 2026             | -    |
| <b>Passenger Vehicles %</b>                                       | 100%                    | 100%  | 99%   | 98%   | 99%   | -    | -                     | 100%  | 100%  | 97%   | 98%   | -    | -                       | 98%   | 99%   | 100%  | 99%   | -    | -                     | 99%   | 100%  | 100%  | 99%   | -    | -                | 99%              | -    |
| <b>HC Vehicles</b>  | -                       | -     | 5     | 2     | 7     | -    | -                     | -     | -     | 2     | 2     | -    | -                       | 1     | 8     | -     | 9     | -    | -                     | 2     | -     | -     | 2     | -    | -                | 20               | -    |
| <b>HC Vehicles %</b>  | -                       | -     | 1%    | 2%    | 1%    | -    | -                     | -     | -     | 3%    | 2%    | -    | -                       | 2%    | 1%    | -     | 1%    | -    | -                     | 1%    | -     | -     | 1%    | -    | -                | 1%               | -    |

U = U-Turn, L = Left, T = Thru, R = Right, App = Approach Total  
 asterisk (\*) indicates pedestrians and bicyclists on crosswalk  
 dash (-) in the table indicates zero or not applicable  
 % App = percentage of specific movement total in relation to its approach total  
 % Total = percentage of specific movement total in relation to its intersection total  
 Passenger Vehicles % = percentage of passenger vehicle total in a specific movement  
 HC Vehicles % = percentage of heavy commercial vehicle total in a specific movement

# Intersection Traffic Counts

**Intersection:** #10 CSAH101 & Hutchins Dr  
**Count Date(s):** Thu, Mar 1, 2018  
**Peaks:** 6-9:30AM, 11AM-1PM, 2:30-6PM

**Prepared by:** Associated Consulting Services LLC  
 www.acsteam.com  
 (612) 568-3227



# Intersection Traffic Counts

Intersection: #10 CSAH101 & Hutchins Dr

Count Date(s): Thu, Mar 1, 2018

Peaks: 6-9:30AM, 11AM-1PM, 2:30-6PM

Prepared by: Associated Consulting Services LLC

www.acsteam.com

(612) 568-3227

| Passenger Vehicles Entire Duration (6-9:30AM, 11AM-1PM, 2:30-6PM) at #10 CSAH101 & Hutchins Dr |                         |    |     |    |      |                       |    |   |    |      |                         |    |     |    |      |                       |    |   |    |      |
|--|-------------------------|----|-----|----|------|-----------------------|----|---|----|------|-------------------------|----|-----|----|------|-----------------------|----|---|----|------|
| Start Time   | From North (Southbound) |    |     |    |      | From East (Westbound) |    |   |    |      | From South (Northbound) |    |     |    |      | From West (Eastbound) |    |   |    |      |
|  | U                       | L  | T   | R  | Ped* | U                     | L  | T | R  | Ped* | U                       | L  | T   | R  | Ped* | U                     | L  | T | R  | Ped* |
| 6:00   | -                       | 5  | 18  | 5  | -    | -                     | -  | - | -  | -    | -                       | 4  | 36  | 1  | -    | -                     | 1  | - | -  | -    |
| 6:15   | 1                       | 2  | 19  | 10 | -    | -                     | 1  | - | 1  | -    | -                       | 2  | 45  | -  | -    | -                     | 3  | - | -  | -    |
| 6:30   | -                       | 4  | 37  | 10 | -    | -                     | -  | 1 | 2  | -    | 2                       | 3  | 72  | 1  | -    | -                     | 6  | - | -  | -    |
| 6:45   | -                       | 7  | 103 | 15 | -    | -                     | 2  | - | 2  | -    | 1                       | 4  | 82  | 2  | -    | -                     | 4  | 1 | 3  | -    |
| 7:00   | -                       | 4  | 132 | 14 | -    | -                     | 4  | - | 1  | -    | 3                       | 5  | 118 | 4  | -    | -                     | 18 | 1 | 5  | -    |
| 7:15   | -                       | 3  | 138 | 31 | -    | -                     | 1  | - | 4  | -    | 2                       | 12 | 173 | 6  | 1    | -                     | 21 | - | 3  | -    |
| 7:30   | 1                       | 4  | 180 | 45 | -    | -                     | -  | 3 | -  | -    | 2                       | 23 | 183 | 2  | -    | -                     | 25 | 2 | 5  | -    |
| 7:45   | -                       | 10 | 162 | 52 | -    | -                     | 2  | 5 | 4  | -    | 6                       | 21 | 189 | 16 | -    | -                     | 38 | - | 5  | -    |
| 8:00   | 2                       | 4  | 110 | 22 | -    | -                     | 4  | - | 3  | -    | -                       | 8  | 154 | 5  | -    | -                     | 37 | 1 | 4  | 1    |
| 8:15   | -                       | 1  | 149 | 22 | -    | -                     | 2  | - | 2  | -    | 2                       | 7  | 148 | 5  | -    | -                     | 18 | 3 | 3  | -    |
| 8:30   | 1                       | 5  | 115 | 23 | -    | -                     | 1  | 1 | 1  | -    | -                       | 9  | 185 | 3  | -    | -                     | 19 | 2 | 6  | -    |
| 8:45   | -                       | 8  | 86  | 18 | -    | -                     | 5  | - | 3  | -    | -                       | 8  | 108 | 8  | -    | -                     | 17 | - | 8  | -    |
| 9:00   | 2                       | 6  | 86  | 19 | -    | -                     | 2  | - | 4  | -    | -                       | 7  | 82  | 6  | -    | -                     | 16 | 1 | 1  | -    |
| 9:15   | 3                       | 6  | 53  | 6  | -    | -                     | 2  | - | 7  | -    | -                       | 4  | 109 | 2  | -    | -                     | 27 | - | 4  | -    |
| 9:30   | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 9:45   | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 10:00  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 10:15  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 10:30  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 10:45  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 11:00  | 3                       | 5  | 69  | 11 | -    | -                     | 5  | - | 15 | -    | -                       | 9  | 93  | 5  | -    | -                     | 32 | 1 | 10 | -    |
| 11:15  | 2                       | 11 | 91  | 9  | -    | -                     | 5  | 2 | 8  | -    | -                       | 12 | 80  | 3  | -    | -                     | 28 | - | 9  | -    |
| 11:30  | 6                       | 8  | 89  | 17 | -    | -                     | 3  | 1 | 10 | -    | 1                       | 6  | 91  | 11 | -    | -                     | 35 | - | 11 | -    |
| 11:45  | 3                       | 17 | 80  | 22 | 1    | -                     | 7  | - | 13 | -    | 2                       | 8  | 79  | 12 | 1    | -                     | 29 | 1 | 10 | -    |
| 12:00  | 4                       | 15 | 92  | 11 | -    | -                     | 7  | 4 | 14 | 1    | -                       | 9  | 99  | 6  | -    | -                     | 45 | 2 | 8  | -    |
| 12:15  | 4                       | 14 | 93  | 17 | -    | -                     | 3  | 3 | 16 | -    | -                       | 4  | 98  | 7  | -    | -                     | 31 | 3 | 4  | -    |
| 12:30  | 3                       | 11 | 86  | 16 | -    | -                     | 12 | - | 9  | -    | -                       | 10 | 88  | 11 | 2    | -                     | 45 | 1 | 14 | -    |
| 12:45  | 2                       | 16 | 84  | 13 | -    | -                     | 6  | 2 | 19 | -    | -                       | 16 | 88  | 10 | 1    | -                     | 37 | 3 | 7  | -    |
| 13:00  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 13:15  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 13:30  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 13:45  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 14:00  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 14:15  | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    | -                       | -  | -   | -  | -    | -                     | -  | - | -  | -    |
| 14:30  | 5                       | 13 | 124 | 16 | -    | -                     | 10 | 1 | 10 | -    | -                       | 9  | 105 | 10 | -    | -                     | 47 | 3 | 4  | -    |
| 14:45  | 5                       | 15 | 119 | 16 | -    | -                     | 9  | 2 | 20 | -    | -                       | 10 | 153 | 12 | 1    | -                     | 74 | 3 | 16 | -    |
| 15:00  | 4                       | 20 | 119 | 19 | -    | -                     | 8  | 1 | 14 | -    | -                       | 6  | 135 | 6  | 2    | -                     | 55 | - | 8  | 1    |
| 15:15  | 3                       | 12 | 138 | 19 | -    | -                     | 2  | - | 13 | -    | -                       | 14 | 144 | 1  | -    | -                     | 40 | 3 | 10 | 2    |
| 15:30  | 2                       | 18 | 125 | 26 | -    | -                     | 1  | 2 | 11 | -    | 1                       | 16 | 183 | 5  | -    | -                     | 42 | 1 | 15 | -    |
| 15:45  | 4                       | 17 | 141 | 27 | -    | -                     | 10 | 3 | 26 | -    | 1                       | 14 | 141 | 10 | -    | -                     | 26 | - | 23 | 4    |
| 16:00  | -                       | 10 | 152 | 18 | 2    | -                     | 9  | - | 18 | -    | -                       | 17 | 144 | 6  | -    | -                     | 38 | 5 | 8  | 5    |
| 16:15  | 2                       | 6  | 156 | 24 | -    | -                     | 2  | 2 | 18 | -    | -                       | 12 | 139 | 8  | -    | -                     | 40 | 2 | 15 | 1    |
| 16:30  | 5                       | 12 | 139 | 21 | -    | -                     | 5  | 1 | 10 | -    | -                       | 11 | 161 | 8  | -    | -                     | 55 | 2 | 11 | -    |
| 16:45  | 2                       | 17 | 160 | 33 | 1    | -                     | 10 | 2 | 17 | -    | -                       | 9  | 216 | 9  | -    | -                     | 46 | 1 | 9  | 5    |
| 17:00  | 1                       | 9  | 180 | 14 | 1    | -                     | 12 | 3 | 23 | -    | -                       | 15 | 209 | 8  | -    | -                     | 48 | 3 | 12 | 1    |
| 17:15  | 1                       | 11 | 145 | 26 | -    | -                     | 8  | 3 | 20 | -    | -                       | 15 | 217 | 7  | -    | -                     | 60 | - | 4  | -    |
| 17:30  | 2                       | 13 | 139 | 22 | -    | -                     | 3  | 3 | 12 | -    | -                       | 15 | 165 | 12 | -    | -                     | 42 | - | 9  | -    |
| 17:45  | 3                       | 11 | 148 | 22 | -    | -                     | 12 | 2 | 15 | -    | -                       | 15 | 160 | 7  | -    | -                     | 36 | 3 | 13 | -    |

U = U-Turn, L = Left, T = Thru, R = Right  
 asterisk (\*) indicates pedestrians and bicyclists on crosswalk  
 dash (-) in the table indicates zero or not applicable

# Intersection Traffic Counts

**Intersection:** #10 CSAH101 & Hutchins Dr

**Count Date(s):** Thu, Mar 1, 2018

**Peaks:** 6-9:30AM, 11AM-1PM, 2:30-6PM

**Prepared by:** Associated Consulting Services LLC

www.acsteam.com

(612) 568-3227

| HC Vehicles_Entire Duration (6-9:30AM, 11AM-1PM, 2:30-6PM) at #10 CSAH101 & Hutchins Dr |                         |   |    |   |                       |   |   |   |                         |   |    |   |                       |   |   |   |
|---|-------------------------|---|----|---|-----------------------|---|---|---|-------------------------|---|----|---|-----------------------|---|---|---|
| Start Time  | From North (Southbound) |   |    |   | From East (Westbound) |   |   |   | From South (Northbound) |   |    |   | From West (Eastbound) |   |   |   |
|   | U                       | L | T  | R | U                     | L | T | R | U                       | L | T  | R | U                     | L | T | R |
| 6:00  | -                       | - | -  | - | -                     | - | - | - | -                       | - | 2  | - | -                     | - | - | - |
| 6:15  | -                       | - | -  | 2 | -                     | - | - | 1 | -                       | - | 2  | 1 | -                     | 1 | - | 1 |
| 6:30  | -                       | - | 5  | - | -                     | - | - | - | -                       | - | 1  | - | -                     | - | - | - |
| 6:45  | -                       | - | 1  | - | -                     | - | - | - | -                       | - | 2  | - | -                     | - | - | 1 |
| 7:00  | -                       | 1 | 6  | - | -                     | - | - | - | -                       | - | 2  | 1 | -                     | - | - | - |
| 7:15  | -                       | - | 7  | - | -                     | - | 1 | - | -                       | - | 3  | - | -                     | 1 | - | 1 |
| 7:30  | -                       | - | 10 | 3 | -                     | - | - | - | -                       | - | 2  | - | -                     | 6 | 3 | - |
| 7:45  | -                       | - | 5  | - | -                     | - | - | - | -                       | 1 | 2  | - | -                     | 3 | 3 | - |
| 8:00  | -                       | 1 | 4  | 1 | -                     | 3 | 1 | 1 | -                       | - | -  | - | -                     | 1 | 1 | - |
| 8:15  | -                       | - | 5  | - | -                     | 1 | - | - | -                       | - | 8  | - | -                     | 1 | - | 1 |
| 8:30  | -                       | 1 | 2  | 2 | -                     | - | - | 1 | -                       | - | 7  | - | -                     | - | - | - |
| 8:45  | -                       | - | 3  | - | -                     | - | - | 1 | -                       | - | 11 | - | -                     | 1 | - | - |
| 9:00  | -                       | - | 4  | - | -                     | - | - | - | -                       | - | 4  | 1 | -                     | - | - | 1 |
| 9:15  | -                       | - | 3  | - | -                     | - | - | - | -                       | 1 | 2  | - | -                     | - | - | - |
| 9:30  | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 9:45  | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 10:00   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 10:15   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 10:30   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 10:45   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 11:00   | -                       | - | 3  | - | -                     | - | - | 1 | -                       | - | 5  | - | -                     | - | - | - |
| 11:15   | -                       | - | -  | - | -                     | - | - | - | -                       | - | 4  | - | -                     | - | - | - |
| 11:30   | -                       | 2 | 3  | 1 | -                     | - | - | 1 | -                       | - | 1  | - | -                     | - | - | - |
| 11:45   | -                       | - | 3  | - | -                     | - | 1 | 1 | -                       | - | 1  | - | -                     | - | - | - |
| 12:00   | -                       | 1 | 2  | - | -                     | - | - | 1 | -                       | - | 1  | - | -                     | 1 | - | - |
| 12:15   | -                       | - | 3  | 1 | -                     | - | - | - | -                       | - | 2  | - | -                     | - | - | - |
| 12:30   | -                       | - | 4  | - | -                     | - | - | - | -                       | - | 3  | - | -                     | - | 1 | - |
| 12:45   | -                       | - | 5  | - | -                     | 1 | - | 1 | -                       | - | 5  | 1 | -                     | - | 1 | - |
| 13:00   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 13:15   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 13:30   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 13:45   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 14:00   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 14:15   | -                       | - | -  | - | -                     | - | - | - | -                       | - | -  | - | -                     | - | - | - |
| 14:30   | -                       | - | 6  | - | -                     | - | - | - | -                       | - | 1  | - | -                     | 3 | - | - |
| 14:45   | -                       | - | 4  | - | -                     | - | - | - | -                       | - | 3  | 1 | -                     | 3 | - | - |
| 15:00   | -                       | - | 5  | 1 | -                     | - | - | 2 | -                       | - | 6  | 2 | -                     | 1 | - | - |
| 15:15   | -                       | - | 6  | - | -                     | - | - | - | -                       | 1 | 6  | - | -                     | - | - | - |
| 15:30   | -                       | - | 3  | - | -                     | - | - | - | -                       | 1 | 4  | - | -                     | - | - | - |
| 15:45   | -                       | 1 | 1  | 1 | -                     | - | - | - | -                       | - | 6  | - | -                     | - | - | - |
| 16:00   | -                       | - | 10 | 1 | -                     | - | - | - | -                       | - | 3  | - | -                     | - | - | - |
| 16:15   | -                       | - | 1  | 1 | -                     | - | - | - | -                       | - | 5  | - | -                     | 2 | - | - |
| 16:30   | -                       | - | 1  | - | -                     | - | - | - | -                       | - | 3  | - | -                     | - | - | - |
| 16:45   | -                       | - | -  | - | -                     | - | - | - | -                       | - | 1  | - | -                     | - | - | - |
| 17:00   | -                       | - | 2  | - | -                     | - | - | 2 | -                       | 1 | 3  | - | -                     | 1 | - | - |
| 17:15   | -                       | - | 2  | 2 | -                     | - | - | - | -                       | - | 1  | - | -                     | 1 | - | - |
| 17:30   | -                       | - | 2  | - | -                     | - | - | - | -                       | 1 | 1  | - | -                     | - | - | - |
| 17:45   | -                       | - | -  | - | -                     | - | - | - | -                       | - | 1  | - | -                     | - | - | - |

U = U-Turn, L = Left, T = Thru, R = Right  
dash (-) in the table indicates zero or not applicable