

Alliant Engineering Inc Minneapolis, MN 55415

TH-65 at 147th Ave NE / Andover Blvd NE
Ref.Pt.: 018.186
data by Alliant Inc.
TURN MOVEMENT COUNT

File Name : 19 - TH 65 & Andover Blvd, 10-25-11
Site Code : 19
Start Date : 10/25/2011
Page No : 1

Groups Printed- Cars + - Trucks

| Start Time | TH-65 / Central Ave NE Southbound | | | | | 147th Ave NE Westbound | | | | | TH-65 / Central Ave NE Northbound | | | | | Andover Blvd NE Eastbound | | | | | Int. Total |
|-------------|-----------------------------------|------|-------|-------|------|------------------------|------|------|-------|------|-----------------------------------|------|-------|-------|------|---------------------------|------|------|-------|------|------------|
| | UTrn | Left | Thru | Right | Peds | UTrn | Left | Thru | Right | Peds | UTrn | Left | Thru | Right | Peds | UTrn | Left | Thru | Right | Peds | |
| 06:00 | 0 | 1 | 530 | 3 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 8 | 39 | 1 | 0 | 0 | 1 | 1 | 18 | 0 | 608 |
| 06:15 | 0 | 1 | 599 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 11 | 94 | 1 | 0 | 0 | 2 | 0 | 22 | 0 | 736 |
| 06:30 | 0 | 1 | 565 | 9 | 0 | 0 | 2 | 4 | 3 | 0 | 0 | 25 | 109 | 0 | 0 | 0 | 3 | 2 | 16 | 0 | 739 |
| 06:45 | 0 | 1 | 502 | 11 | 0 | 0 | 6 | 1 | 0 | 0 | 0 | 30 | 121 | 2 | 1 | 0 | 5 | 1 | 26 | 0 | 707 |
| Total | 0 | 4 | 2196 | 27 | 0 | 0 | 14 | 7 | 3 | 0 | 0 | 74 | 363 | 4 | 1 | 0 | 11 | 4 | 82 | 0 | 2790 |
| 07:00 | 0 | 4 | 564 | 12 | 0 | 0 | 22 | 4 | 1 | 0 | 0 | 9 | 102 | 3 | 1 | 0 | 2 | 1 | 23 | 0 | 748 |
| 07:15 | 1 | 1 | 486 | 8 | 0 | 0 | 9 | 8 | 0 | 0 | 0 | 11 | 159 | 4 | 0 | 0 | 4 | 2 | 16 | 0 | 709 |
| 07:30 | 1 | 2 | 499 | 2 | 0 | 0 | 12 | 1 | 1 | 0 | 0 | 11 | 150 | 6 | 0 | 0 | 1 | 4 | 20 | 0 | 710 |
| 07:45 | 4 | 5 | 451 | 9 | 0 | 0 | 16 | 0 | 1 | 0 | 0 | 8 | 110 | 6 | 0 | 0 | 9 | 2 | 25 | 0 | 646 |
| Total | 6 | 12 | 2000 | 31 | 0 | 0 | 59 | 13 | 3 | 0 | 0 | 39 | 521 | 19 | 1 | 0 | 16 | 9 | 84 | 0 | 2813 |
| 08:00 | 0 | 4 | 411 | 7 | 0 | 0 | 4 | 2 | 0 | 0 | 1 | 4 | 129 | 5 | 0 | 0 | 5 | 5 | 23 | 0 | 600 |
| 08:15 | 0 | 3 | 337 | 4 | 0 | 0 | 3 | 2 | 5 | 0 | 1 | 3 | 127 | 5 | 0 | 0 | 2 | 1 | 17 | 0 | 510 |
| 08:30 | 0 | 5 | 329 | 8 | 0 | 0 | 2 | 3 | 2 | 0 | 1 | 10 | 132 | 3 | 0 | 0 | 1 | 0 | 12 | 0 | 508 |
| 08:45 | 0 | 4 | 296 | 10 | 0 | 0 | 5 | 6 | 5 | 0 | 0 | 3 | 122 | 5 | 0 | 0 | 3 | 2 | 7 | 0 | 468 |
| Total | 0 | 16 | 1373 | 29 | 0 | 0 | 14 | 13 | 12 | 0 | 3 | 20 | 510 | 18 | 0 | 0 | 11 | 8 | 59 | 0 | 2086 |
| 09:00 | 0 | 2 | 260 | 3 | 0 | 0 | 11 | 2 | 3 | 0 | 0 | 3 | 146 | 4 | 0 | 1 | 8 | 0 | 8 | 0 | 451 |
| 09:15 | 0 | 1 | 294 | 7 | 0 | 0 | 4 | 1 | 2 | 0 | 0 | 11 | 158 | 9 | 0 | 0 | 6 | 0 | 5 | 0 | 498 |
| Total | 0 | 3 | 554 | 10 | 0 | 0 | 15 | 3 | 5 | 0 | 0 | 14 | 304 | 13 | 0 | 1 | 14 | 0 | 13 | 0 | 949 |
| 10:30 | 0 | 3 | 214 | 2 | 0 | 0 | 6 | 3 | 5 | 0 | 0 | 6 | 149 | 6 | 0 | 0 | 6 | 1 | 9 | 0 | 410 |
| 10:45 | 1 | 6 | 201 | 5 | 0 | 0 | 7 | 2 | 4 | 0 | 0 | 9 | 128 | 6 | 0 | 0 | 5 | 3 | 3 | 0 | 380 |
| Total | 1 | 9 | 415 | 7 | 0 | 0 | 13 | 5 | 9 | 0 | 0 | 15 | 277 | 12 | 0 | 0 | 11 | 4 | 12 | 0 | 790 |
| 11:00 | 0 | 3 | 178 | 3 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 6 | 158 | 6 | 0 | 1 | 2 | 1 | 8 | 0 | 372 |
| 11:15 | 0 | 0 | 189 | 6 | 0 | 0 | 6 | 2 | 2 | 0 | 2 | 9 | 184 | 6 | 0 | 0 | 7 | 7 | 8 | 0 | 428 |
| 11:30 | 1 | 3 | 208 | 5 | 0 | 0 | 8 | 5 | 7 | 0 | 1 | 17 | 172 | 7 | 0 | 0 | 2 | 3 | 8 | 0 | 447 |
| 11:45 | 1 | 8 | 180 | 5 | 0 | 0 | 8 | 5 | 6 | 0 | 1 | 10 | 166 | 9 | 0 | 0 | 3 | 5 | 11 | 1 | 419 |
| Total | 2 | 14 | 755 | 19 | 0 | 0 | 27 | 12 | 16 | 0 | 4 | 42 | 680 | 28 | 0 | 1 | 14 | 16 | 35 | 1 | 1666 |
| 12:00 | 0 | 4 | 186 | 6 | 0 | 0 | 8 | 5 | 4 | 0 | 1 | 6 | 160 | 11 | 0 | 0 | 2 | 3 | 10 | 0 | 406 |
| 12:15 | 1 | 4 | 185 | 3 | 0 | 0 | 4 | 6 | 6 | 0 | 1 | 9 | 194 | 7 | 0 | 0 | 2 | 4 | 2 | 0 | 428 |
| 12:30 | 0 | 2 | 206 | 2 | 0 | 0 | 4 | 2 | 4 | 0 | 0 | 19 | 183 | 14 | 0 | 0 | 1 | 2 | 4 | 0 | 443 |
| 12:45 | 1 | 5 | 207 | 10 | 0 | 0 | 7 | 2 | 2 | 0 | 0 | 11 | 173 | 7 | 0 | 0 | 3 | 0 | 13 | 0 | 441 |
| Total | 2 | 15 | 784 | 21 | 0 | 0 | 23 | 15 | 16 | 0 | 2 | 45 | 710 | 39 | 0 | 0 | 8 | 9 | 29 | 0 | 1718 |
| 13:00 | 0 | 1 | 199 | 1 | 0 | 0 | 9 | 6 | 4 | 0 | 1 | 10 | 216 | 13 | 0 | 0 | 7 | 1 | 4 | 0 | 472 |
| 13:15 | 1 | 1 | 181 | 2 | 0 | 0 | 6 | 3 | 3 | 0 | 0 | 8 | 184 | 5 | 0 | 0 | 4 | 3 | 15 | 0 | 416 |
| Total | 1 | 2 | 380 | 3 | 0 | 0 | 15 | 9 | 7 | 0 | 1 | 18 | 400 | 18 | 0 | 0 | 11 | 4 | 19 | 0 | 888 |
| 14:30 | 0 | 1 | 177 | 7 | 0 | 0 | 8 | 1 | 3 | 0 | 0 | 13 | 324 | 13 | 0 | 0 | 3 | 4 | 5 | 0 | 559 |
| 14:45 | 0 | 4 | 199 | 7 | 0 | 0 | 9 | 8 | 4 | 0 | 0 | 14 | 388 | 9 | 0 | 0 | 3 | 5 | 7 | 0 | 657 |
| Total | 0 | 5 | 376 | 14 | 0 | 0 | 17 | 9 | 7 | 0 | 0 | 27 | 712 | 22 | 0 | 0 | 6 | 9 | 12 | 0 | 1216 |
| 15:00 | 1 | 1 | 183 | 5 | 0 | 0 | 4 | 3 | 5 | 0 | 1 | 13 | 403 | 13 | 0 | 0 | 3 | 2 | 5 | 0 | 642 |
| 15:15 | 1 | 1 | 216 | 1 | 0 | 0 | 5 | 2 | 12 | 0 | 1 | 14 | 415 | 15 | 0 | 0 | 4 | 3 | 12 | 0 | 702 |
| 15:30 | 0 | 4 | 211 | 2 | 0 | 0 | 8 | 2 | 4 | 0 | 5 | 24 | 461 | 11 | 0 | 0 | 11 | 6 | 9 | 0 | 758 |
| 15:45 | 1 | 4 | 199 | 1 | 0 | 0 | 6 | 4 | 5 | 0 | 0 | 26 | 514 | 5 | 0 | 0 | 7 | 7 | 10 | 1 | 790 |
| Total | 3 | 10 | 809 | 9 | 0 | 0 | 23 | 11 | 26 | 0 | 7 | 77 | 1793 | 44 | 0 | 0 | 25 | 18 | 36 | 1 | 2892 |
| 16:00 | 0 | 4 | 191 | 5 | 0 | 0 | 1 | 4 | 5 | 0 | 0 | 16 | 509 | 9 | 0 | 0 | 11 | 4 | 17 | 0 | 776 |
| 16:15 | 0 | 4 | 214 | 7 | 0 | 0 | 7 | 5 | 11 | 0 | 1 | 19 | 540 | 13 | 0 | 0 | 5 | 3 | 9 | 0 | 838 |
| 16:30 | 0 | 3 | 248 | 5 | 0 | 0 | 16 | 5 | 10 | 0 | 0 | 21 | 572 | 12 | 0 | 0 | 5 | 2 | 6 | 0 | 905 |
| 16:45 | 0 | 4 | 228 | 4 | 0 | 0 | 11 | 4 | 9 | 0 | 0 | 35 | 585 | 18 | 0 | 0 | 6 | 4 | 10 | 0 | 918 |
| Total | 0 | 15 | 881 | 21 | 0 | 0 | 35 | 18 | 35 | 0 | 1 | 91 | 2206 | 52 | 0 | 0 | 27 | 13 | 42 | 0 | 3437 |
| 17:00 | 0 | 3 | 219 | 6 | 0 | 0 | 6 | 2 | 10 | 0 | 2 | 35 | 589 | 10 | 0 | 0 | 14 | 4 | 50 | 0 | 950 |
| 17:15 | 1 | 4 | 225 | 4 | 0 | 0 | 7 | 3 | 7 | 0 | 6 | 27 | 520 | 14 | 0 | 0 | 7 | 39 | 20 | 0 | 884 |
| 17:30 | 0 | 3 | 245 | 10 | 0 | 0 | 13 | 4 | 6 | 0 | 0 | 38 | 487 | 16 | 0 | 0 | 8 | 5 | 19 | 0 | 854 |
| 17:45 | 0 | 3 | 200 | 6 | 0 | 0 | 5 | 11 | 6 | 0 | 1 | 28 | 456 | 12 | 0 | 0 | 8 | 4 | 18 | 0 | 758 |
| Total | 1 | 13 | 889 | 26 | 0 | 0 | 31 | 20 | 29 | 0 | 9 | 128 | 2052 | 52 | 0 | 0 | 37 | 52 | 107 | 0 | 3446 |
| Grand Total | 16 | 118 | 11412 | 217 | 0 | 0 | 286 | 135 | 168 | 0 | 27 | 590 | 10528 | 321 | 2 | 2 | 191 | 146 | 530 | 2 | 24691 |
| Approch % | 0.1 | 1 | 97 | 1.8 | 0 | 0 | 48.6 | 22.9 | 28.5 | 0 | 0.2 | 5.1 | 91.8 | 2.8 | 0 | 0.2 | 21.9 | 16.8 | 60.8 | 0.2 | |
| Total % | 0.1 | 0.5 | 46.2 | 0.9 | 0 | 0 | 1.2 | 0.5 | 0.7 | 0 | 0.1 | 2.4 | 42.6 | 1.3 | 0 | 0 | 0.8 | 0.6 | 2.1 | 0 | |
| Cars + | 16 | 110 | 10925 | 196 | 0 | 0 | 276 | 128 | 157 | 0 | 25 | 540 | 10054 | 308 | 2 | 2 | 172 | 140 | 499 | 1 | 23551 |
| % Cars + | 100 | 93.2 | 95.7 | 90.3 | 0 | 0 | 96.5 | 94.8 | 93.5 | 0 | 92.6 | 91.5 | 95.5 | 96 | 100 | 100 | 90.1 | 95.9 | 94.2 | 50 | 95.4 |
| Trucks | 0 | 8 | 487 | 21 | 0 | 0 | 10 | 7 | 11 | 0 | 2 | 50 | 474 | 13 | 0 | 0 | 19 | 6 | 31 | 1 | 1140 |
| % Trucks | 0 | 6.8 | 4.3 | 9.7 | 0 | 0 | 3.5 | 5.2 | 6.5 | 0 | 7.4 | 8.5 | 4.5 | 4 | 0 | 0 | 9.9 | 4.1 | 5.8 | 50 | 4.6 |

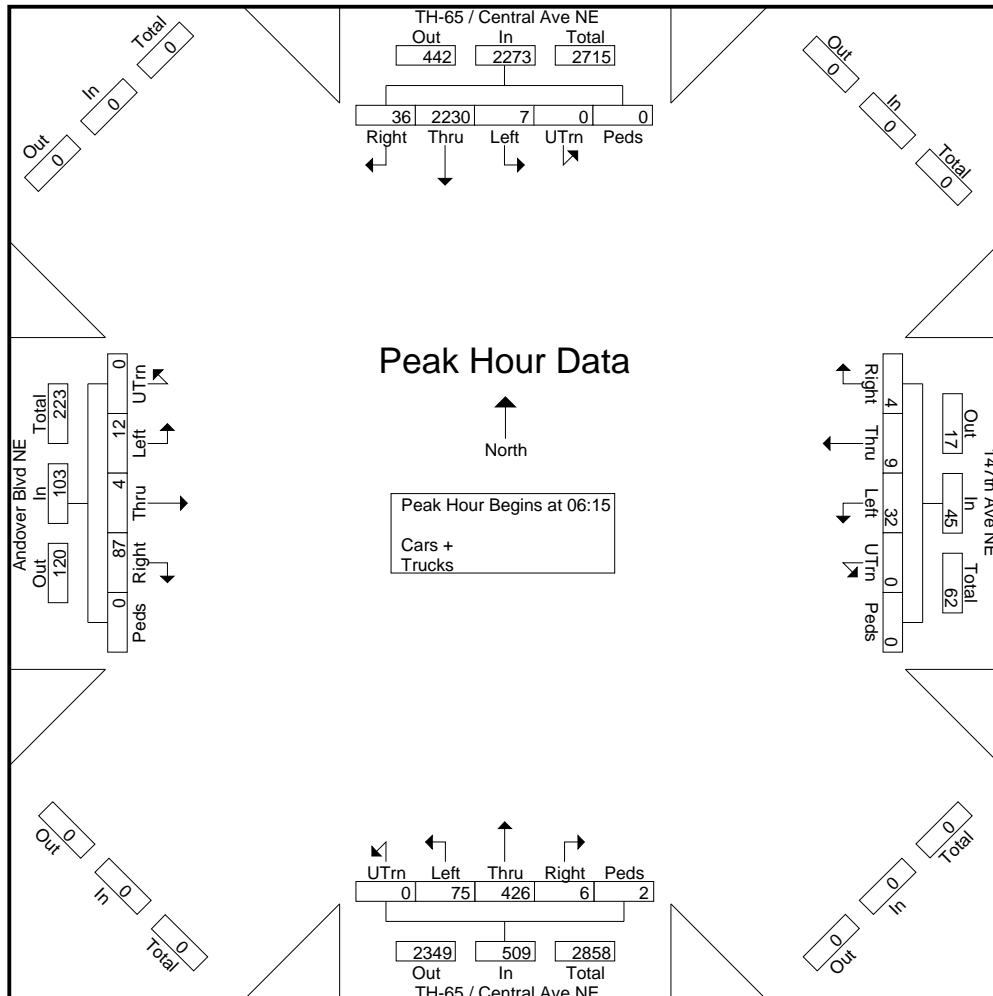
Alliant Engineering Inc Minneapolis, MN 55415

TH-65 at 147th Ave NE / Andover Blvd NE
Ref.Pt.: 018.186
data by Alliant Inc.
TURN MOVEMENT COUNT

File Name : 19 - TH 65 & Andover Blvd, 10-25-11
Site Code : 19
Start Date : 10/25/2011
Page No : 2

| Start Time | TH-65 / Central Ave NE Southbound | | | | | 147th Ave NE Westbound | | | | | TH-65 / Central Ave NE Northbound | | | | | Andover Blvd NE Eastbound | | | | | Int. Total | | | | |
|--------------|-----------------------------------|------|------|-------|------|------------------------|------|------|------|-------|-----------------------------------|------------|------|------|------|---------------------------|------|------------|------|------|------------|------|-------|------|------------|
| | UTrn | Left | Thru | Right | Peds | App. Total | UTrn | Left | Thru | Right | Peds | App. Total | UTrn | Left | Thru | Right | Peds | App. Total | UTrn | Left | | Thru | Right | Peds | App. Total |
| 06:15 | 0 | 1 | 599 | 4 | 0 | 604 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 11 | 94 | 1 | 0 | 106 | 0 | 2 | 0 | 22 | 0 | 24 | 736 |
| 06:30 | 0 | 1 | 565 | 9 | 0 | 575 | 0 | 2 | 4 | 3 | 0 | 9 | 0 | 25 | 109 | 0 | 0 | 134 | 0 | 3 | 2 | 16 | 0 | 21 | 739 |
| 06:45 | 0 | 1 | 502 | 11 | 0 | 514 | 0 | 6 | 1 | 0 | 0 | 7 | 0 | 30 | 121 | 2 | 1 | 154 | 0 | 5 | 1 | 26 | 0 | 32 | 707 |
| 07:00 | 0 | 4 | 564 | 12 | 0 | 580 | 0 | 22 | 4 | 1 | 0 | 27 | 0 | 9 | 102 | 3 | 1 | 115 | 0 | 2 | 1 | 23 | 0 | 26 | 748 |
| Total Volume | 0 | 7 | 2230 | 36 | 0 | 2273 | 0 | 32 | 9 | 4 | 0 | 45 | 0 | 75 | 426 | 6 | 2 | 509 | 0 | 12 | 4 | 87 | 0 | 103 | 2930 |
| % App. Total | 0 | 0.3 | 98.1 | 1.6 | 0 | | 0 | 71.1 | 20 | 8.9 | 0 | | 0 | 14.7 | 83.7 | 1.2 | 0.4 | | 0 | 11.7 | 3.9 | 84.5 | 0 | | |
| PHF | .000 | .438 | .931 | .750 | .000 | .941 | .000 | .364 | .563 | .333 | .000 | .417 | .000 | .625 | .880 | .500 | .500 | .826 | .000 | .600 | .500 | .837 | .000 | .805 | .979 |

Peak Hour Analysis From 06:00 to 09:15 - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 06:15



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TH-65 at 147th Ave NE / Andover Blvd NE
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 Site Code : 19
 Start Date : 10/25/2011
 Page No : 3

| Start Time | TH-65 / Central Ave NE Southbound | | | | | | 147th Ave NE Westbound | | | | | | TH-65 / Central Ave NE Northbound | | | | | | Andover Blvd NE Eastbound | | | | | | Int. Total |
|--|-----------------------------------|------|------|-------|------|------------|------------------------|------|------|-------|------|------------|-----------------------------------|------|------|-------|------|------------|---------------------------|------|------|-------|------|------------|------------|
| | UTrn | Left | Thru | Right | Peds | App. Total | UTrn | Left | Thru | Right | Peds | App. Total | UTrn | Left | Thru | Right | Peds | App. Total | UTrn | Left | Thru | Right | Peds | App. Total | |
| Peak Hour Analysis From 14:30 to 17:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 16:30 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16:30 | 0 | 3 | 248 | 5 | 0 | 256 | 0 | 16 | 5 | 10 | 0 | 31 | 0 | 21 | 572 | 12 | 0 | 605 | 0 | 5 | 2 | 6 | 0 | 13 | 905 |
| 16:45 | 0 | 4 | 228 | 4 | 0 | 236 | 0 | 11 | 4 | 9 | 0 | 24 | 0 | 35 | 585 | 18 | 0 | 638 | 0 | 6 | 4 | 10 | 0 | 20 | 918 |
| 17:00 | 0 | 3 | 219 | 6 | 0 | 228 | 0 | 6 | 2 | 10 | 0 | 18 | 2 | 35 | 589 | 10 | 0 | 636 | 0 | 14 | 4 | 50 | 0 | 68 | 950 |
| 17:15 | 1 | 4 | 225 | 4 | 0 | 234 | 0 | 7 | 3 | 7 | 0 | 17 | 6 | 27 | 520 | 14 | 0 | 567 | 0 | 7 | 39 | 20 | 0 | 66 | 884 |
| Total Volume | 1 | 14 | 920 | 19 | 0 | 954 | 0 | 40 | 14 | 36 | 0 | 90 | 8 | 118 | 2266 | 54 | 0 | 2446 | 0 | 32 | 49 | 86 | 0 | 167 | 3657 |
| % App. Total | 0.1 | 1.5 | 96.4 | 2 | 0 | | 0 | 44.4 | 15.6 | 40 | 0 | | 0.3 | 4.8 | 92.6 | 2.2 | 0 | | 0 | 19.2 | 29.3 | 51.5 | 0 | | |
| PHF | .250 | .875 | .927 | .792 | .000 | .932 | .000 | .625 | .700 | .900 | .000 | .726 | .333 | .843 | .962 | .750 | .000 | .958 | .000 | .571 | .314 | .430 | .000 | .614 | .962 |

