

Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at Beam Ave.
Ref.Pt.: 142.823
Data by: Alliant Engineering Inc
TURN MOVEMENT COUNT

File Name : 5 - TH 61 & Beam Ave
Site Code : 5
Start Date : 11/8/2012
Page No : 1

Groups Printed- Cars - Trucks

| Start Time | TH-61 Southbound | | | | | Beam Ave Westbound | | | | | TH-61 Northbound | | | | | Beam Ave 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 | 10 | 90 | 2 | 0 | 0 | 12 | 1 | 0 | 0 | 0 | 3 | 53 | 28 | 0 | 0 | 0 | 3 | 8 | 0 | 210 |
| 06:15 | 0 | 26 | 171 | 5 | 0 | 0 | 30 | 1 | 9 | 0 | 0 | 5 | 69 | 28 | 0 | 0 | 1 | 0 | 11 | 0 | 356 |
| 06:30 | 1 | 42 | 245 | 5 | 0 | 0 | 38 | 3 | 6 | 2 | 0 | 4 | 113 | 51 | 0 | 2 | 2 | 1 | 7 | 0 | 522 |
| 06:45 | 0 | 44 | 294 | 3 | 0 | 0 | 73 | 14 | 15 | 0 | 0 | 20 | 118 | 62 | 2 | 0 | 2 | 4 | 27 | 0 | 678 |
| Total | 1 | 122 | 800 | 15 | 0 | 0 | 153 | 19 | 30 | 2 | 0 | 32 | 353 | 169 | 2 | 2 | 5 | 8 | 53 | 0 | 1766 |
| 07:00 | 0 | 52 | 350 | 5 | 0 | 0 | 57 | 8 | 10 | 0 | 0 | 10 | 115 | 64 | 0 | 0 | 5 | 2 | 20 | 0 | 698 |
| 07:15 | 0 | 54 | 378 | 7 | 0 | 0 | 52 | 6 | 21 | 0 | 0 | 10 | 176 | 85 | 0 | 0 | 3 | 9 | 17 | 0 | 818 |
| 07:30 | 0 | 72 | 388 | 7 | 0 | 0 | 69 | 14 | 27 | 0 | 0 | 9 | 169 | 75 | 0 | 0 | 3 | 7 | 20 | 0 | 860 |
| 07:45 | 0 | 69 | 384 | 5 | 0 | 0 | 66 | 5 | 24 | 0 | 0 | 12 | 148 | 103 | 0 | 0 | 3 | 9 | 28 | 0 | 856 |
| Total | 0 | 247 | 1500 | 24 | 0 | 0 | 244 | 33 | 82 | 0 | 0 | 41 | 608 | 327 | 0 | 0 | 14 | 27 | 85 | 0 | 3232 |
| 08:00 | 0 | 46 | 276 | 9 | 0 | 0 | 58 | 7 | 27 | 0 | 0 | 14 | 142 | 75 | 0 | 0 | 2 | 6 | 21 | 0 | 683 |
| 08:15 | 0 | 55 | 163 | 6 | 0 | 0 | 55 | 8 | 17 | 0 | 0 | 11 | 146 | 86 | 0 | 0 | 6 | 10 | 15 | 0 | 578 |
| 08:30 | 0 | 50 | 173 | 6 | 0 | 0 | 51 | 4 | 24 | 0 | 0 | 9 | 145 | 78 | 0 | 0 | 7 | 8 | 16 | 0 | 571 |
| 08:45 | 0 | 63 | 193 | 5 | 0 | 1 | 54 | 5 | 25 | 0 | 0 | 15 | 162 | 93 | 0 | 0 | 3 | 12 | 21 | 0 | 652 |
| Total | 0 | 214 | 805 | 26 | 0 | 1 | 218 | 24 | 93 | 0 | 0 | 49 | 595 | 332 | 0 | 0 | 18 | 36 | 73 | 0 | 2484 |
| 09:00 | 0 | 56 | 136 | 7 | 0 | 0 | 60 | 7 | 28 | 0 | 0 | 8 | 125 | 84 | 0 | 0 | 5 | 7 | 18 | 0 | 541 |
| 09:15 | 0 | 77 | 126 | 4 | 0 | 0 | 65 | 4 | 29 | 1 | 0 | 7 | 117 | 88 | 5 | 0 | 6 | 8 | 10 | 1 | 548 |
| **** Break **** | 0 | 133 | 262 | 11 | 0 | 0 | 125 | 11 | 57 | 1 | 0 | 15 | 242 | 172 | 5 | 0 | 11 | 15 | 28 | 1 | 1089 |
| **** Break **** | 0 | 71 | 125 | 8 | 0 | 0 | 84 | 5 | 63 | 0 | 0 | 9 | 140 | 120 | 0 | 0 | 5 | 4 | 13 | 0 | 647 |
| 10:30 | 0 | 83 | 120 | 12 | 0 | 0 | 103 | 5 | 58 | 0 | 0 | 15 | 120 | 120 | 2 | 0 | 7 | 10 | 13 | 1 | 669 |
| Total | 0 | 154 | 245 | 20 | 0 | 0 | 187 | 10 | 121 | 0 | 0 | 24 | 260 | 240 | 2 | 0 | 12 | 14 | 26 | 1 | 1316 |
| 11:00 | 0 | 69 | 110 | 12 | 0 | 0 | 105 | 6 | 72 | 0 | 0 | 10 | 124 | 127 | 0 | 0 | 7 | 10 | 15 | 1 | 668 |
| 11:15 | 0 | 81 | 129 | 10 | 0 | 0 | 109 | 6 | 68 | 0 | 0 | 10 | 120 | 108 | 1 | 0 | 7 | 6 | 14 | 0 | 669 |
| 11:30 | 0 | 61 | 124 | 9 | 0 | 0 | 119 | 10 | 73 | 0 | 0 | 9 | 134 | 116 | 2 | 0 | 10 | 10 | 6 | 0 | 683 |
| 11:45 | 0 | 68 | 134 | 11 | 0 | 0 | 122 | 9 | 84 | 0 | 0 | 15 | 108 | 134 | 0 | 0 | 6 | 6 | 17 | 0 | 714 |
| Total | 0 | 279 | 497 | 42 | 0 | 0 | 455 | 31 | 297 | 0 | 0 | 44 | 486 | 485 | 3 | 0 | 30 | 32 | 52 | 1 | 2734 |
| 12:00 | 0 | 61 | 136 | 4 | 0 | 0 | 118 | 11 | 77 | 3 | 0 | 15 | 145 | 140 | 0 | 0 | 5 | 8 | 13 | 0 | 736 |
| 12:15 | 0 | 73 | 126 | 9 | 0 | 0 | 121 | 10 | 73 | 0 | 0 | 14 | 122 | 137 | 0 | 0 | 7 | 12 | 9 | 0 | 713 |
| 12:30 | 0 | 53 | 168 | 10 | 0 | 0 | 123 | 8 | 95 | 0 | 0 | 15 | 148 | 161 | 0 | 0 | 8 | 6 | 15 | 0 | 810 |
| 12:45 | 0 | 107 | 140 | 9 | 0 | 0 | 148 | 8 | 117 | 0 | 0 | 6 | 153 | 163 | 2 | 0 | 4 | 15 | 15 | 0 | 887 |
| Total | 0 | 294 | 570 | 32 | 0 | 0 | 510 | 37 | 362 | 3 | 0 | 50 | 568 | 601 | 2 | 0 | 24 | 41 | 52 | 0 | 3146 |
| 13:00 | 0 | 69 | 147 | 5 | 0 | 0 | 124 | 23 | 77 | 0 | 0 | 20 | 165 | 141 | 0 | 0 | 5 | 10 | 17 | 0 | 803 |
| 13:15 | 0 | 68 | 107 | 10 | 0 | 0 | 123 | 14 | 76 | 0 | 0 | 5 | 143 | 119 | 0 | 0 | 8 | 7 | 8 | 0 | 688 |
| **** Break **** | 0 | 137 | 254 | 15 | 0 | 0 | 247 | 37 | 153 | 0 | 0 | 25 | 308 | 260 | 0 | 0 | 13 | 17 | 25 | 0 | 1491 |
| **** Break **** | 0 | 56 | 144 | 3 | 0 | 0 | 102 | 16 | 77 | 1 | 0 | 9 | 200 | 137 | 1 | 0 | 5 | 6 | 9 | 1 | 767 |
| 14:30 | 0 | 81 | 150 | 3 | 1 | 0 | 132 | 17 | 104 | 0 | 0 | 17 | 164 | 140 | 0 | 0 | 6 | 14 | 11 | 0 | 840 |
| Total | 0 | 137 | 294 | 6 | 1 | 0 | 234 | 33 | 181 | 1 | 0 | 26 | 364 | 277 | 1 | 0 | 11 | 20 | 20 | 1 | 1607 |
| 15:00 | 0 | 64 | 167 | 8 | 0 | 0 | 120 | 16 | 106 | 1 | 0 | 17 | 238 | 142 | 0 | 0 | 1 | 4 | 11 | 0 | 895 |
| 15:15 | 0 | 48 | 172 | 6 | 0 | 0 | 132 | 25 | 85 | 0 | 0 | 19 | 232 | 143 | 1 | 0 | 14 | 13 | 17 | 0 | 907 |
| 15:30 | 0 | 72 | 183 | 5 | 0 | 0 | 130 | 20 | 102 | 0 | 0 | 12 | 267 | 154 | 0 | 0 | 10 | 13 | 20 | 0 | 988 |
| 15:45 | 1 | 61 | 179 | 6 | 0 | 0 | 141 | 15 | 79 | 2 | 0 | 22 | 256 | 142 | 0 | 1 | 10 | 9 | 20 | 0 | 944 |
| Total | 1 | 245 | 701 | 25 | 0 | 0 | 523 | 76 | 372 | 3 | 0 | 70 | 993 | 581 | 1 | 1 | 35 | 39 | 68 | 0 | 3734 |
| 16:00 | 0 | 53 | 190 | 7 | 0 | 0 | 131 | 10 | 101 | 0 | 0 | 15 | 250 | 174 | 0 | 0 | 6 | 8 | 14 | 0 | 959 |

Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at Beam Ave.
Ref.Pt.: 142.823
Data by: Alliant Engineering Inc
TURN MOVEMENT COUNT

File Name : 5 - TH 61 & Beam Ave
Site Code : 5
Start Date : 11/8/2012
Page No : 2

Groups Printed- Cars - Trucks

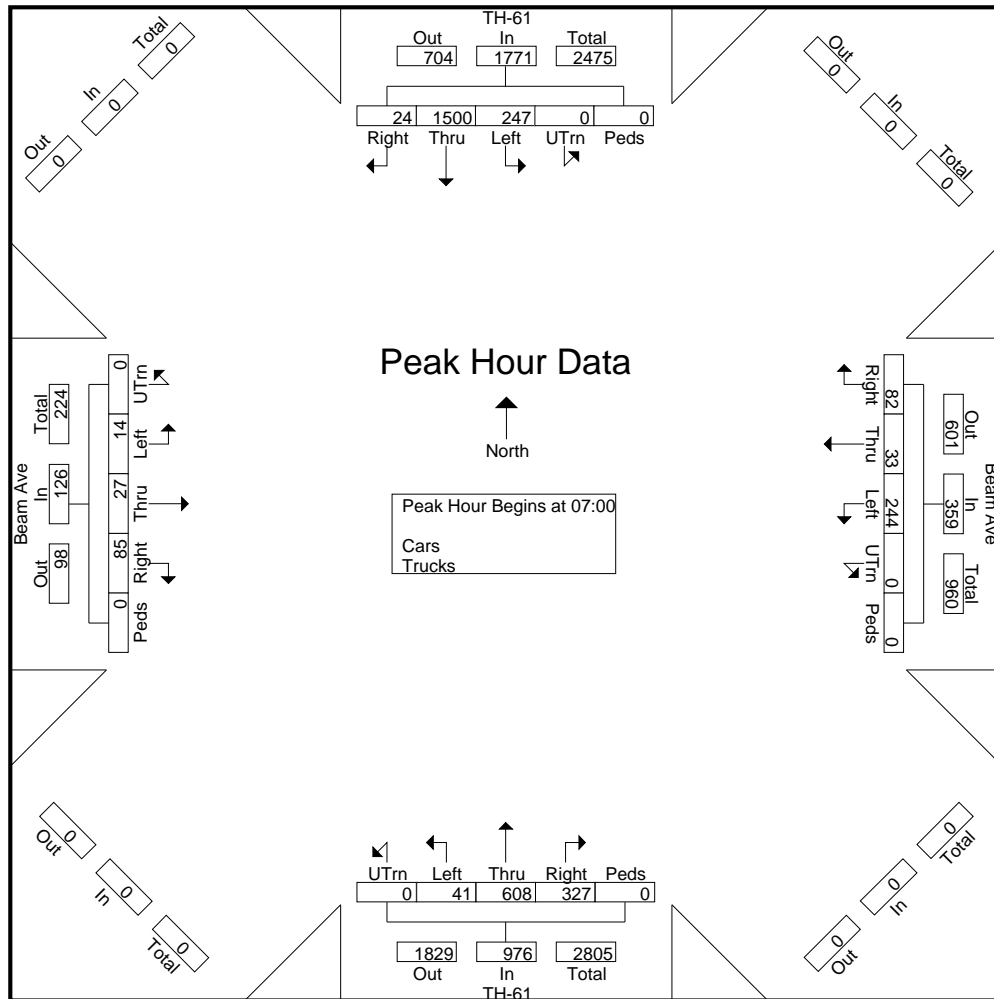
| Start Time | TH-61 Southbound | | | | | Beam Ave Westbound | | | | | TH-61 Northbound | | | | | Beam Ave Eastbound | | | | | Int. Total |
|-------------|------------------|------|------|-------|------|--------------------|------|------|-------|------|------------------|------|------|-------|------|--------------------|------|------|-------|------|------------|
| | UTrn | Left | Thru | Right | Peds | UTrn | Left | Thru | Right | Peds | UTrn | Left | Thru | Right | Peds | UTrn | Left | Thru | Right | Peds | |
| 16:15 | 0 | 71 | 181 | 14 | 0 | 0 | 135 | 17 | 72 | 0 | 0 | 14 | 313 | 116 | 2 | 0 | 18 | 18 | 9 | 0 | 980 |
| 16:30 | 0 | 66 | 191 | 9 | 0 | 0 | 127 | 10 | 98 | 1 | 0 | 19 | 315 | 135 | 1 | 0 | 9 | 10 | 12 | 0 | 1003 |
| 16:45 | 0 | 72 | 174 | 3 | 0 | 0 | 133 | 15 | 107 | 0 | 0 | 24 | 344 | 170 | 1 | 0 | 11 | 15 | 12 | 0 | 1081 |
| Total | 0 | 262 | 736 | 33 | 0 | 0 | 526 | 52 | 378 | 1 | 0 | 72 | 1222 | 595 | 4 | 0 | 44 | 51 | 47 | 0 | 4023 |
| 17:00 | 0 | 61 | 181 | 6 | 0 | 0 | 146 | 23 | 113 | 0 | 4 | 39 | 346 | 161 | 0 | 0 | 10 | 14 | 17 | 0 | 1121 |
| 17:15 | 0 | 74 | 196 | 5 | 0 | 0 | 114 | 15 | 93 | 0 | 0 | 17 | 323 | 186 | 1 | 0 | 5 | 11 | 12 | 0 | 1052 |
| 17:30 | 0 | 66 | 190 | 13 | 0 | 0 | 106 | 13 | 86 | 0 | 0 | 18 | 241 | 156 | 1 | 0 | 8 | 12 | 8 | 0 | 918 |
| 17:45 | 0 | 63 | 141 | 6 | 0 | 0 | 110 | 8 | 82 | 0 | 0 | 22 | 244 | 167 | 2 | 0 | 6 | 9 | 7 | 0 | 867 |
| Total | 0 | 264 | 708 | 30 | 0 | 0 | 476 | 59 | 374 | 0 | 4 | 96 | 1154 | 670 | 4 | 0 | 29 | 46 | 44 | 0 | 3958 |
| 18:00 | 0 | 76 | 166 | 4 | 0 | 0 | 111 | 13 | 69 | 0 | 0 | 16 | 219 | 134 | 0 | 0 | 9 | 12 | 11 | 0 | 840 |
| 18:15 | 0 | 47 | 135 | 5 | 0 | 0 | 100 | 9 | 74 | 0 | 0 | 12 | 164 | 122 | 0 | 0 | 4 | 3 | 11 | 0 | 686 |
| Grand Total | 2 | 2611 | 7673 | 288 | 1 | 1 | 4109 | 444 | 2643 | 11 | 4 | 572 | 7536 | 4965 | 24 | 3 | 259 | 361 | 595 | 4 | 32106 |
| Apprch % | 0 | 24.7 | 72.6 | 2.7 | 0 | 0 | 5.7 | 6.2 | 36.7 | 0.2 | 0 | 4.4 | 57.5 | 37.9 | 0.2 | 0.2 | 21.2 | 29.5 | 48.7 | 0.3 | |
| Total % | 0 | 8.1 | 23.9 | 0.9 | 0 | 0 | 12.8 | 1.4 | 8.2 | 0 | 0 | 1.8 | 23.5 | 15.5 | 0.1 | 0 | 0.8 | 1.1 | 1.9 | 0 | |
| Cars | 0 | 2567 | 7467 | 277 | 1 | 0 | 4008 | 434 | 2606 | 10 | 4 | 559 | 7324 | 4840 | 23 | 3 | 254 | 354 | 575 | 4 | 31310 |
| % Cars | 0 | 98.3 | 97.3 | 96.2 | 100 | 0 | 97.5 | 97.7 | 98.6 | 90.9 | 100 | 97.7 | 97.2 | 97.5 | 95.8 | 100 | 98.1 | 98.1 | 96.6 | 100 | 97.5 |
| Trucks | 2 | 44 | 206 | 11 | 0 | 1 | 101 | 10 | 37 | 1 | 0 | 13 | 212 | 125 | 1 | 0 | 5 | 7 | 20 | 0 | 796 |
| % Trucks | 100 | 1.7 | 2.7 | 3.8 | 0 | 100 | 2.5 | 2.3 | 1.4 | 9.1 | 0 | 2.3 | 2.8 | 2.5 | 4.2 | 0 | 1.9 | 1.9 | 3.4 | 0 | 2.5 |

Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at Beam Ave.
Ref.Pt.: 142.823
Data by: Alliant Engineering Inc
TURN MOVEMENT COUNT

File Name : 5 - TH 61 & Beam Ave
Site Code : 5
Start Date : 11/8/2012
Page No : 3

| Start Time | TH-61 Southbound | | | | | | Beam Ave Westbound | | | | | | TH-61 Northbound | | | | | | Beam Ave 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 | |
| 07:00 | 0 | 52 | 350 | 5 | 0 | 407 | 0 | 57 | 8 | 10 | 0 | 75 | 0 | 10 | 115 | 64 | 0 | 189 | 0 | 5 | 2 | 20 | 0 | 27 | 698 |
| 07:15 | 0 | 54 | 378 | 7 | 0 | 439 | 0 | 52 | 6 | 21 | 0 | 79 | 0 | 10 | 176 | 85 | 0 | 271 | 0 | 3 | 9 | 17 | 0 | 29 | 818 |
| 07:30 | 0 | 72 | 388 | 7 | 0 | 467 | 0 | 69 | 14 | 27 | 0 | 110 | 0 | 9 | 169 | 75 | 0 | 253 | 0 | 3 | 7 | 20 | 0 | 30 | 860 |
| 07:45 | 0 | 69 | 384 | 5 | 0 | 458 | 0 | 66 | 5 | 24 | 0 | 95 | 0 | 12 | 148 | 103 | 0 | 263 | 0 | 3 | 9 | 28 | 0 | 40 | 856 |
| Total Volume | 0 | 247 | 1500 | 24 | 0 | 1771 | 0 | 244 | 33 | 82 | 0 | 359 | 0 | 41 | 608 | 327 | 0 | 976 | 0 | 14 | 27 | 85 | 0 | 126 | 3232 |
| % App. Total | 0 | 13.9 | 84.7 | 1.4 | 0 | | 0 | 68 | 9.2 | 22.8 | 0 | | 0 | 4.2 | 62.3 | 33.5 | 0 | | 0 | 11.1 | 21.4 | 67.5 | 0 | | |
| PHF | .000 | .858 | .966 | .857 | .000 | .948 | .000 | .884 | .589 | .759 | .000 | .816 | .000 | .854 | .864 | .794 | .000 | .900 | .000 | .700 | .750 | .759 | .000 | .788 | .940 |



Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at Beam Ave.
Ref.Pt.: 142.823
Data by: Alliant Engineering Inc
TURN MOVEMENT COUNT

File Name : 5 - TH 61 & Beam Ave
Site Code : 5
Start Date : 11/8/2012
Page No : 4

| Start Time | TH-61 Southbound | | | | | | Beam Ave Westbound | | | | | | TH-61 Northbound | | | | | | Beam Ave 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 | |
| 16:30 | 0 | 66 | 191 | 0 | 0 | 266 | 0 | 12 | 10 | 98 | 0 | 236 | 0 | 19 | 31 | 13 | 0 | 470 | 0 | 9 | 10 | 12 | 0 | 31 | 1003 |
| 16:45 | 0 | 72 | 174 | 3 | 0 | 249 | 0 | 13 | 15 | 107 | 0 | 255 | 0 | 24 | 34 | 17 | 0 | 539 | 0 | 11 | 15 | 12 | 0 | 38 | 1081 |
| 17:00 | 0 | 61 | 181 | 6 | 0 | 248 | 0 | 146 | 23 | 113 | 0 | 282 | 4 | 39 | 346 | 161 | 0 | 550 | 0 | 10 | 14 | 17 | 0 | 41 | 1121 |
| 17:15 | 0 | 74 | 196 | 5 | 0 | 275 | 0 | 114 | 15 | 93 | 0 | 222 | 0 | 17 | 323 | 186 | 1 | 527 | 0 | 5 | 11 | 12 | 0 | 28 | 1052 |
| Total Volume | 0 | 273 | 742 | 23 | 0 | 1038 | 0 | 520 | 63 | 411 | 1 | 995 | 4 | 99 | 1328 | 652 | 3 | 2086 | 0 | 35 | 50 | 53 | 0 | 138 | 4257 |
| % App. Total | 0 | 26.3 | 71.5 | 2.2 | 0 | | 0 | 52.3 | 6.3 | 41.3 | 0.1 | | 0.2 | 4.7 | 63.7 | 31.3 | 0.1 | | 0 | 25.4 | 36.2 | 38.4 | 0 | | |
| PHF | .000 | .922 | .946 | .639 | .000 | .944 | .000 | .890 | .685 | .909 | .250 | .882 | .250 | .635 | .960 | .876 | .750 | .948 | .000 | .795 | .833 | .779 | .000 | .841 | .949 |

