



Spack Solutions

1 SE Main St, Suite 204
Minneapolis, MN 55414

TRAFFIC DATA

TH-3 at Cliff Rd (CSAH-32)

Ref.Pt. :036+001.776

Data By: Spack Solutions

TURN MOVEMENT COUNT

File Name : TH-3 at Cliff Rd (CSAH-32) 2-4-2020

Site Code : 00000000

Start Date : 04-Feb-20

Page No : 1

Groups Printed- Vehicles - Trucks

| Start Time | TH-3 Southbound | | | | Cliff Rd (CSAH-32) Westbound | | | | TH-3 Northbound | | | | Cliff Rd (CSAH-32) Eastbound | | | | Int. Total |
|------------|-----------------|------|------|------|------------------------------|------|------|------|-----------------|------|------|------|------------------------------|------|------|------|------------|
| | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | |
| 06:00 | 2 | 15 | 1 | 0 | 18 | 23 | 5 | 0 | 13 | 95 | 2 | 0 | 3 | 24 | 4 | 0 | 205 |
| 06:15 | 1 | 19 | 3 | 0 | 23 | 25 | 7 | 0 | 11 | 121 | 8 | 0 | 3 | 30 | 4 | 0 | 255 |
| 06:30 | 3 | 30 | 5 | 0 | 27 | 30 | 8 | 0 | 11 | 150 | 16 | 0 | 9 | 37 | 6 | 0 | 332 |
| 06:45 | 5 | 39 | 4 | 0 | 49 | 41 | 20 | 0 | 10 | 199 | 5 | 0 | 13 | 36 | 15 | 0 | 436 |
| Total | 11 | 103 | 13 | 0 | 117 | 119 | 40 | 0 | 45 | 565 | 31 | 0 | 28 | 127 | 29 | 0 | 1228 |
| 07:00 | 4 | 39 | 7 | 0 | 51 | 58 | 23 | 0 | 13 | 215 | 16 | 0 | 11 | 29 | 5 | 0 | 471 |
| 07:15 | 3 | 43 | 12 | 0 | 52 | 52 | 12 | 0 | 14 | 252 | 10 | 0 | 14 | 31 | 8 | 0 | 503 |
| 07:30 | 5 | 37 | 5 | 0 | 52 | 58 | 17 | 0 | 20 | 267 | 11 | 0 | 18 | 38 | 18 | 0 | 546 |
| 07:45 | 6 | 64 | 10 | 0 | 34 | 41 | 21 | 0 | 13 | 224 | 17 | 0 | 16 | 34 | 13 | 0 | 493 |
| Total | 18 | 183 | 34 | 0 | 189 | 209 | 73 | 0 | 60 | 958 | 54 | 0 | 59 | 132 | 44 | 0 | 2013 |
| 08:00 | 8 | 45 | 13 | 0 | 29 | 42 | 7 | 0 | 21 | 175 | 12 | 0 | 7 | 36 | 18 | 0 | 413 |
| 08:15 | 8 | 30 | 9 | 0 | 25 | 25 | 6 | 0 | 10 | 149 | 11 | 0 | 6 | 20 | 12 | 0 | 311 |
| 08:30 | 6 | 42 | 6 | 0 | 13 | 35 | 10 | 0 | 10 | 125 | 20 | 0 | 8 | 26 | 13 | 0 | 314 |
| 08:45 | 1 | 42 | 9 | 0 | 20 | 30 | 5 | 0 | 8 | 118 | 17 | 0 | 11 | 14 | 2 | 0 | 277 |
| Total | 23 | 159 | 37 | 0 | 87 | 132 | 28 | 0 | 49 | 567 | 60 | 0 | 32 | 96 | 45 | 0 | 1315 |
| 09:00 | 7 | 55 | 12 | 0 | 20 | 26 | 9 | 0 | 6 | 101 | 13 | 0 | 13 | 18 | 9 | 0 | 289 |
| 09:15 | 4 | 47 | 13 | 0 | 13 | 30 | 6 | 0 | 10 | 116 | 16 | 0 | 28 | 29 | 8 | 0 | 320 |
| 09:30 | 15 | 39 | 8 | 0 | 14 | 26 | 6 | 0 | 8 | 69 | 12 | 0 | 16 | 13 | 7 | 0 | 233 |
| 09:45 | 4 | 41 | 5 | 0 | 9 | 17 | 7 | 0 | 4 | 57 | 5 | 0 | 9 | 19 | 4 | 0 | 181 |
| Total | 30 | 182 | 38 | 0 | 56 | 99 | 28 | 0 | 28 | 343 | 46 | 0 | 66 | 79 | 28 | 0 | 1023 |
| 10:00 | 4 | 31 | 4 | 0 | 12 | 14 | 5 | 0 | 7 | 45 | 8 | 0 | 13 | 20 | 9 | 0 | 172 |
| 10:15 | 4 | 40 | 9 | 0 | 2 | 21 | 6 | 0 | 4 | 54 | 5 | 0 | 6 | 15 | 1 | 0 | 167 |
| 10:30 | 2 | 46 | 5 | 0 | 7 | 17 | 7 | 0 | 6 | 53 | 8 | 0 | 10 | 20 | 6 | 0 | 187 |
| 10:45 | 2 | 34 | 12 | 0 | 19 | 24 | 8 | 0 | 4 | 46 | 6 | 0 | 6 | 23 | 3 | 0 | 187 |
| Total | 12 | 151 | 30 | 0 | 40 | 76 | 26 | 0 | 21 | 198 | 27 | 0 | 35 | 78 | 19 | 0 | 713 |
| 11:00 | 0 | 41 | 12 | 0 | 14 | 18 | 3 | 0 | 4 | 47 | 8 | 0 | 7 | 14 | 3 | 0 | 171 |
| 11:15 | 5 | 34 | 10 | 0 | 6 | 22 | 5 | 0 | 6 | 49 | 9 | 0 | 8 | 12 | 6 | 0 | 172 |
| 11:30 | 6 | 44 | 9 | 0 | 9 | 18 | 7 | 0 | 7 | 34 | 15 | 0 | 9 | 19 | 2 | 0 | 179 |
| 11:45 | 6 | 30 | 15 | 0 | 12 | 23 | 6 | 0 | 2 | 57 | 20 | 0 | 8 | 19 | 3 | 0 | 201 |
| Total | 17 | 149 | 46 | 0 | 41 | 81 | 21 | 0 | 19 | 187 | 52 | 0 | 32 | 64 | 14 | 0 | 723 |
| 12:00 | 5 | 49 | 12 | 0 | 1 | 24 | 3 | 0 | 9 | 43 | 7 | 0 | 16 | 12 | 8 | 0 | 189 |
| 12:15 | 8 | 50 | 11 | 0 | 7 | 20 | 8 | 0 | 8 | 40 | 13 | 0 | 9 | 20 | 6 | 0 | 200 |
| 12:30 | 5 | 46 | 8 | 0 | 9 | 24 | 7 | 0 | 4 | 53 | 9 | 0 | 10 | 27 | 6 | 0 | 208 |
| 12:45 | 5 | 45 | 13 | 0 | 7 | 18 | 6 | 0 | 9 | 56 | 5 | 0 | 16 | 19 | 7 | 0 | 206 |
| Total | 23 | 190 | 44 | 0 | 24 | 86 | 24 | 0 | 30 | 192 | 34 | 0 | 51 | 78 | 27 | 0 | 803 |
| 13:00 | 11 | 42 | 8 | 0 | 12 | 13 | 7 | 0 | 5 | 43 | 8 | 0 | 9 | 26 | 7 | 0 | 191 |
| 13:15 | 8 | 50 | 12 | 0 | 7 | 24 | 6 | 0 | 4 | 37 | 9 | 0 | 15 | 17 | 5 | 0 | 194 |
| 13:30 | 9 | 40 | 13 | 0 | 12 | 20 | 9 | 0 | 10 | 45 | 11 | 0 | 10 | 26 | 4 | 0 | 209 |
| 13:45 | 10 | 60 | 14 | 0 | 6 | 17 | 9 | 0 | 9 | 54 | 10 | 0 | 16 | 16 | 1 | 0 | 222 |
| Total | 38 | 192 | 47 | 0 | 37 | 74 | 31 | 0 | 28 | 179 | 38 | 0 | 50 | 85 | 17 | 0 | 816 |



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TRAFFIC DATA

TH-3 at Cliff Rd (CSAH-32)
Ref.Pt. :036+001.776
Data By: Spack Solutions
TURN MOVEMENT COUNT

File Name : TH-3 at Cliff Rd (CSAH-32) 2-4-2020
Site Code : 00000000
Start Date : 04-Feb-20
Page No : 2

Groups Printed- Vehicles - Trucks

| Start Time | TH-3 Southbound | | | | Cliff Rd (CSAH-32) Westbound | | | | TH-3 Northbound | | | | Cliff Rd (CSAH-32) Eastbound | | | | Int. Total |
|-------------|-----------------|------|------|------|------------------------------|------|------|------|-----------------|------|------|------|------------------------------|------|------|------|------------|
| | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | |
| 14:00 | 7 | 65 | 4 | 0 | 10 | 27 | 4 | 0 | 8 | 56 | 7 | 0 | 12 | 24 | 15 | 0 | 239 |
| 14:15 | 4 | 78 | 9 | 0 | 13 | 23 | 4 | 0 | 11 | 63 | 7 | 0 | 17 | 40 | 2 | 0 | 271 |
| 14:30 | 13 | 79 | 21 | 0 | 11 | 24 | 5 | 0 | 13 | 61 | 15 | 0 | 16 | 28 | 7 | 0 | 293 |
| 14:45 | 6 | 95 | 14 | 0 | 16 | 30 | 11 | 0 | 6 | 57 | 11 | 0 | 22 | 32 | 4 | 0 | 304 |
| Total | 30 | 317 | 48 | 0 | 50 | 104 | 24 | 0 | 38 | 237 | 40 | 0 | 67 | 124 | 28 | 0 | 1107 |
| 15:00 | 5 | 103 | 18 | 0 | 9 | 23 | 16 | 0 | 11 | 50 | 15 | 0 | 22 | 38 | 8 | 0 | 318 |
| 15:15 | 11 | 140 | 25 | 0 | 14 | 19 | 16 | 0 | 12 | 54 | 16 | 0 | 20 | 30 | 6 | 0 | 363 |
| 15:30 | 12 | 137 | 27 | 0 | 13 | 33 | 14 | 0 | 14 | 70 | 19 | 0 | 20 | 31 | 4 | 0 | 394 |
| 15:45 | 15 | 181 | 30 | 0 | 10 | 31 | 17 | 0 | 17 | 65 | 31 | 0 | 20 | 29 | 6 | 0 | 452 |
| Total | 43 | 561 | 100 | 0 | 46 | 106 | 63 | 0 | 54 | 239 | 81 | 0 | 82 | 128 | 24 | 0 | 1527 |
| 16:00 | 12 | 144 | 21 | 0 | 13 | 42 | 16 | 0 | 15 | 76 | 14 | 0 | 30 | 51 | 6 | 0 | 440 |
| 16:15 | 8 | 215 | 22 | 0 | 15 | 47 | 19 | 0 | 14 | 52 | 20 | 0 | 20 | 53 | 2 | 0 | 487 |
| 16:30 | 18 | 201 | 23 | 0 | 19 | 47 | 21 | 0 | 16 | 67 | 20 | 0 | 28 | 40 | 15 | 0 | 515 |
| 16:45 | 18 | 211 | 33 | 0 | 15 | 60 | 26 | 0 | 11 | 69 | 16 | 0 | 31 | 63 | 12 | 0 | 565 |
| Total | 56 | 771 | 99 | 0 | 62 | 196 | 82 | 0 | 56 | 264 | 70 | 0 | 109 | 207 | 35 | 0 | 2007 |
| 17:00 | 12 | 204 | 34 | 0 | 11 | 61 | 24 | 0 | 8 | 74 | 17 | 0 | 30 | 64 | 6 | 0 | 545 |
| 17:15 | 20 | 211 | 30 | 0 | 11 | 50 | 11 | 0 | 9 | 79 | 6 | 0 | 27 | 51 | 9 | 0 | 514 |
| 17:30 | 16 | 156 | 32 | 0 | 14 | 53 | 19 | 0 | 17 | 94 | 9 | 0 | 14 | 61 | 10 | 0 | 495 |
| 17:45 | 13 | 125 | 32 | 0 | 17 | 32 | 23 | 0 | 10 | 74 | 11 | 0 | 29 | 56 | 13 | 0 | 435 |
| Total | 61 | 696 | 128 | 0 | 53 | 196 | 77 | 0 | 44 | 321 | 43 | 0 | 100 | 232 | 38 | 0 | 1989 |
| Grand Total | 362 | 3654 | 664 | 0 | 802 | 1478 | 517 | 0 | 472 | 4250 | 576 | 0 | 711 | 1430 | 348 | 0 | 15264 |
| Apprch % | 7.7 | 78.1 | 14.2 | 0 | 28.7 | 52.8 | 18.5 | 0 | 8.9 | 80.2 | 10.9 | 0 | 28.6 | 57.5 | 14 | 0 | |
| Total % | 2.4 | 23.9 | 4.4 | 0 | 5.3 | 9.7 | 3.4 | 0 | 3.1 | 27.8 | 3.8 | 0 | 4.7 | 9.4 | 2.3 | 0 | |
| Vehicles | 353 | 3529 | 649 | 0 | 795 | 1400 | 497 | 0 | 448 | 4105 | 530 | 0 | 650 | 1322 | 341 | 0 | 14619 |
| % Vehicles | 97.5 | 96.6 | 97.7 | 0 | 99.1 | 94.7 | 96.1 | 0 | 94.9 | 96.6 | 92 | 0 | 91.4 | 92.4 | 98 | 0 | 95.8 |
| Trucks | 9 | 125 | 15 | 0 | 7 | 78 | 20 | 0 | 24 | 145 | 46 | 0 | 61 | 108 | 7 | 0 | 645 |
| % Trucks | 2.5 | 3.4 | 2.3 | 0 | 0.9 | 5.3 | 3.9 | 0 | 5.1 | 3.4 | 8 | 0 | 8.6 | 7.6 | 2 | 0 | 4.2 |



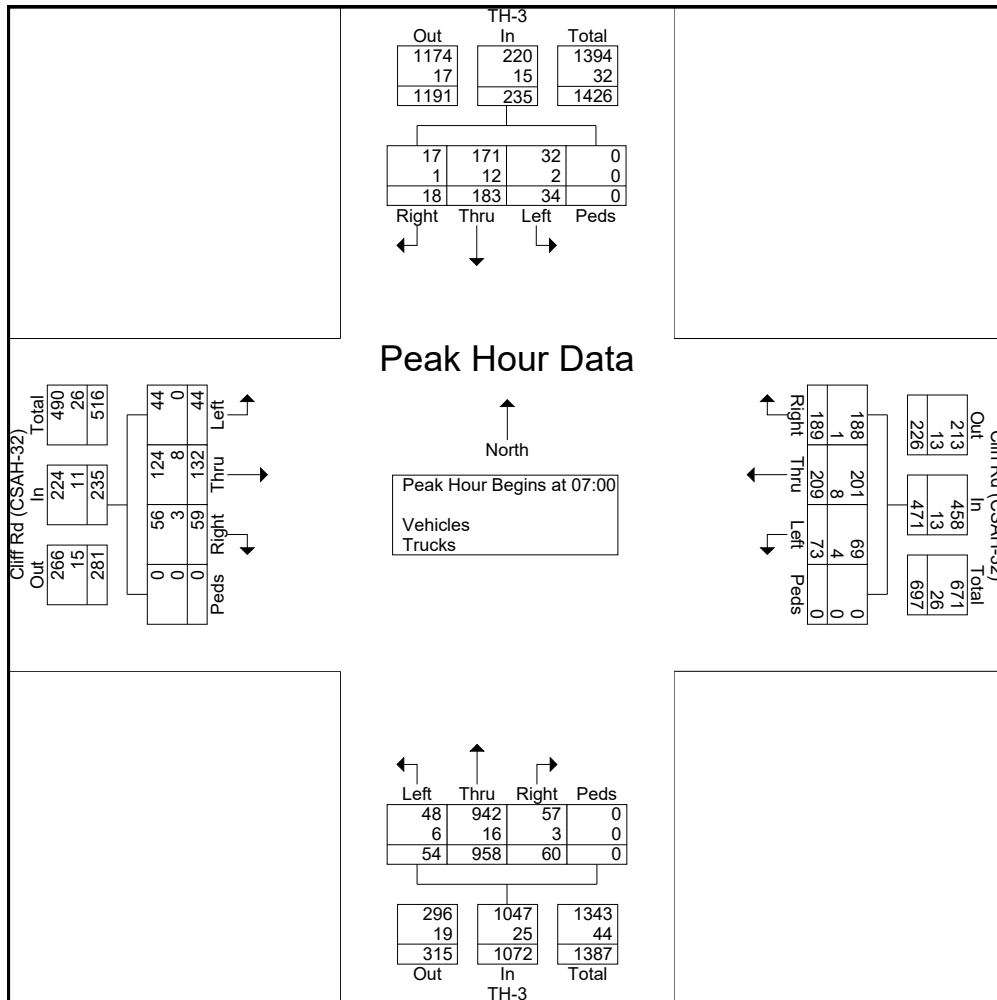
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 Ref.Pt. :036+001.776
 Data By: Spack Solutions
 TURN MOVEMENT COUNT

File Name : TH-3 at Cliff Rd (CSAH-32) 2-4-2020
 Site Code : 00000000
 Start Date : 04-Feb-20
 Page No : 3

| Start Time | TH-3 Southbound | | | | | Cliff Rd (CSAH-32) Westbound | | | | | TH-3 Northbound | | | | | Cliff Rd (CSAH-32) Eastbound | | | | | 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 06:00 to 12:00 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:00 | | | | | | | | | | | | | | | | | | | | | |
| 07:00 | 4 | 39 | 7 | 0 | 50 | 51 | 58 | 23 | 0 | 132 | 13 | 215 | 16 | 0 | 244 | 11 | 29 | 5 | 0 | 45 | 471 |
| 07:15 | 3 | 43 | 12 | 0 | 58 | 52 | 52 | 12 | 0 | 116 | 14 | 252 | 10 | 0 | 276 | 14 | 31 | 8 | 0 | 53 | 503 |
| 07:30 | 5 | 37 | 5 | 0 | 47 | 52 | 58 | 17 | 0 | 127 | 20 | 267 | 11 | 0 | 298 | 18 | 38 | 18 | 0 | 74 | 546 |
| 07:45 | 6 | 64 | 10 | 0 | 80 | 34 | 41 | 21 | 0 | 96 | 13 | 224 | 17 | 0 | 254 | 16 | 34 | 13 | 0 | 63 | 493 |
| Total Volume | 18 | 183 | 34 | 0 | 235 | 189 | 209 | 73 | 0 | 471 | 60 | 958 | 54 | 0 | 1072 | 59 | 132 | 44 | 0 | 235 | 2013 |
| % App. Total | 7.7 | 77.9 | 14.5 | 0 | | 40.1 | 44.4 | 15.5 | 0 | | 5.6 | 89.4 | 5 | 0 | | 25.1 | 56.2 | 18.7 | 0 | | |
| PHF | .750 | .715 | .708 | .000 | .734 | .909 | .901 | .793 | .000 | .892 | .750 | .897 | .794 | .000 | .899 | .819 | .868 | .611 | .000 | .794 | .922 |
| Vehicles | 17 | 171 | 32 | 0 | 220 | 188 | 201 | 69 | 0 | 458 | 57 | 942 | 48 | 0 | 1047 | 56 | 124 | 44 | 0 | 224 | 1949 |
| % Vehicles | 94.4 | 93.4 | 94.1 | 0 | 93.6 | 99.5 | 96.2 | 94.5 | 0 | 97.2 | 95.0 | 98.3 | 88.9 | 0 | 97.7 | 94.9 | 93.9 | 100 | 0 | 95.3 | 96.8 |
| Trucks | 1 | 12 | 2 | 0 | 15 | 1 | 8 | 4 | 0 | 13 | 3 | 16 | 6 | 0 | 25 | 3 | 8 | 0 | 0 | 11 | 64 |
| % Trucks | 5.6 | 6.6 | 5.9 | 0 | 6.4 | 0.5 | 3.8 | 5.5 | 0 | 2.8 | 5.0 | 1.7 | 11.1 | 0 | 2.3 | 5.1 | 6.1 | 0 | 0 | 4.7 | 3.2 |





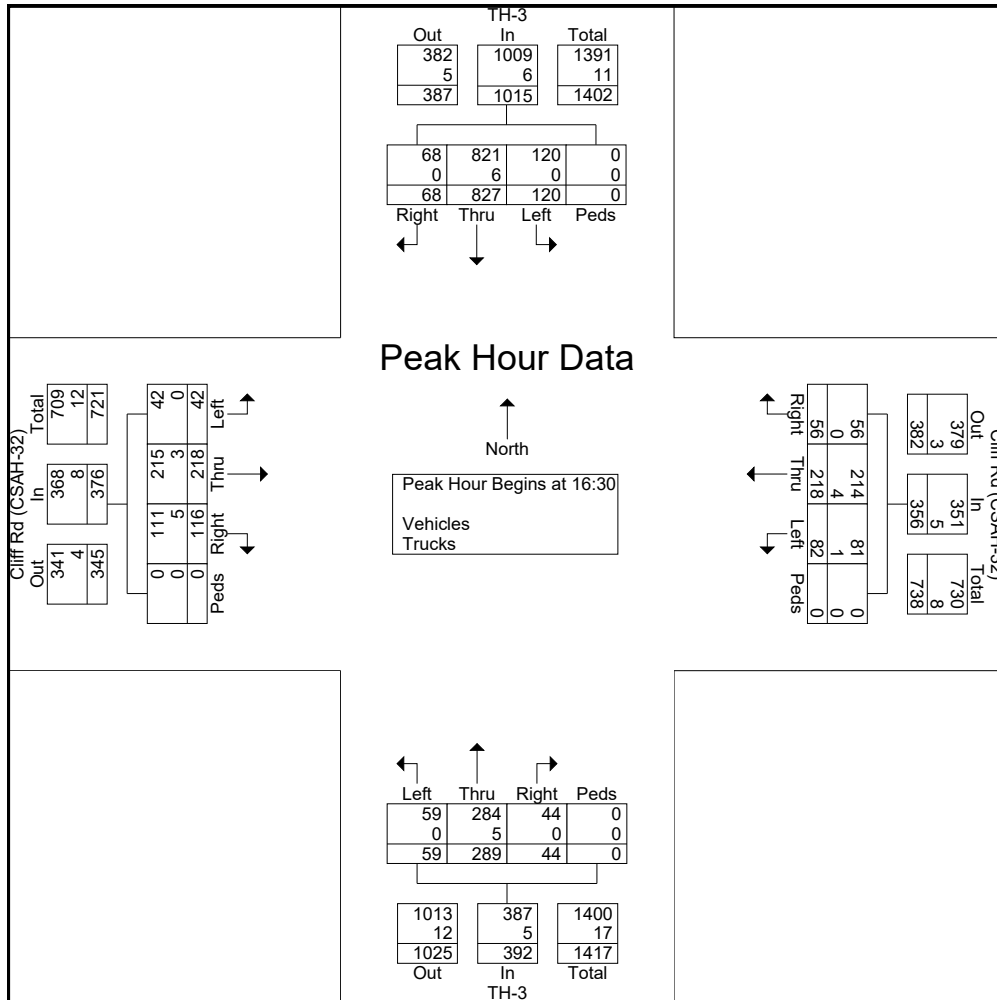
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 Site Code : 00000000
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| Start Time | TH-3 Southbound | | | | | Cliff Rd (CSAH-32) Westbound | | | | | TH-3 Northbound | | | | | Cliff Rd (CSAH-32) Eastbound | | | | | Int. Total |
|--|-----------------|------|------|------|------------|------------------------------|------|------|------|------------|-----------------|------|------|------|------------|------------------------------|------|------|------|------------|------------|
| | 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 12:15 to 17:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 16:30 | | | | | | | | | | | | | | | | | | | | | |
| 16:30 | 18 | 201 | 23 | 0 | 242 | 19 | 47 | 21 | 0 | 87 | 16 | 67 | 20 | 0 | 103 | 28 | 40 | 15 | 0 | 83 | 515 |
| 16:45 | 18 | 211 | 33 | 0 | 262 | 15 | 60 | 26 | 0 | 101 | 11 | 69 | 16 | 0 | 96 | 31 | 63 | 12 | 0 | 106 | 565 |
| 17:00 | 12 | 204 | 34 | 0 | 250 | 11 | 61 | 24 | 0 | 96 | 8 | 74 | 17 | 0 | 99 | 30 | 64 | 6 | 0 | 100 | 545 |
| 17:15 | 20 | 211 | 30 | 0 | 261 | 11 | 50 | 11 | 0 | 72 | 9 | 79 | 6 | 0 | 94 | 27 | 51 | 9 | 0 | 87 | 514 |
| Total Volume | 68 | 827 | 120 | 0 | 1015 | 56 | 218 | 82 | 0 | 356 | 44 | 289 | 59 | 0 | 392 | 116 | 218 | 42 | 0 | 376 | 2139 |
| % App. Total | 6.7 | 81.5 | 11.8 | 0 | | 15.7 | 61.2 | 23 | 0 | | 11.2 | 73.7 | 15.1 | 0 | | 30.9 | 58 | 11.2 | 0 | | |
| PHF | .850 | .980 | .882 | .000 | .969 | .737 | .893 | .788 | .000 | .881 | .688 | .915 | .738 | .000 | .951 | .935 | .852 | .700 | .000 | .887 | .946 |
| Vehicles | 68 | 821 | 120 | 0 | 1009 | 56 | 214 | 81 | 0 | 351 | 44 | 284 | 59 | 0 | 387 | 111 | 215 | 42 | 0 | 368 | 2115 |
| % Vehicles | 100 | 99.3 | 100 | 0 | 99.4 | 100 | 98.2 | 98.8 | 0 | 98.6 | 100 | 98.3 | 100 | 0 | 98.7 | 95.7 | 98.6 | 100 | 0 | 97.9 | 98.9 |
| Trucks | 0 | 6 | 0 | 0 | 6 | 0 | 4 | 1 | 0 | 5 | 0 | 5 | 0 | 0 | 5 | 5 | 3 | 0 | 0 | 8 | 24 |
| % Trucks | 0 | 0.7 | 0 | 0 | 0.6 | 0 | 1.8 | 1.2 | 0 | 1.4 | 0 | 1.7 | 0 | 0 | 1.3 | 4.3 | 1.4 | 0 | 0 | 2.1 | 1.1 |



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