



Spack Solutions

43 Main Street SE, Suite 136
Minneapolis, MN 55414

TH-13-Langford Ave at TH-19-280th St
County: Scott County
Data By: Spack Solutions
TURN MOVEMENT COUNT

File Name : TH-13 Langford Ave at TH-19 280th St
Site Code : 00000000
Start Date : 12/8/2020
Page No : 1

Groups Printed- Vehicles - Trucks

| Start Time | TH-13 Southbound | | | | TH-19 Westbound | | | | Lake Ave Northbound | | | | TH-19 Eastbound | | | | Int. Total |
|------------|------------------|------|------|------|-----------------|------|------|------|---------------------|------|------|------|-----------------|------|------|------|------------|
| | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | |
| 06:00 AM | 2 | 0 | 0 | 0 | 21 | 10 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 40 | 41 | 0 | 117 |
| 06:15 AM | 11 | 0 | 2 | 0 | 10 | 10 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 47 | 35 | 0 | 117 |
| 06:30 AM | 6 | 1 | 2 | 0 | 13 | 15 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 38 | 43 | 0 | 120 |
| 06:45 AM | 11 | 1 | 3 | 0 | 11 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 32 | 0 | 123 |
| Total | 30 | 2 | 7 | 0 | 55 | 62 | 0 | 0 | 0 | 6 | 0 | 0 | 1 | 163 | 151 | 0 | 477 |
| 07:00 AM | 6 | 0 | 4 | 0 | 12 | 26 | 1 | 0 | 0 | 4 | 0 | 0 | 2 | 56 | 36 | 0 | 147 |
| 07:15 AM | 14 | 1 | 8 | 0 | 14 | 36 | 0 | 0 | 1 | 4 | 1 | 0 | 1 | 50 | 41 | 0 | 171 |
| 07:30 AM | 11 | 1 | 9 | 0 | 17 | 35 | 0 | 0 | 2 | 2 | 3 | 0 | 0 | 52 | 52 | 0 | 184 |
| 07:45 AM | 15 | 0 | 5 | 0 | 6 | 33 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 57 | 42 | 0 | 161 |
| Total | 46 | 2 | 26 | 0 | 49 | 130 | 1 | 0 | 4 | 11 | 4 | 0 | 4 | 215 | 171 | 0 | 663 |
| 08:00 AM | 5 | 1 | 5 | 0 | 4 | 40 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 43 | 24 | 0 | 128 |
| 08:15 AM | 12 | 0 | 4 | 0 | 10 | 23 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 33 | 46 | 0 | 132 |
| 08:30 AM | 13 | 0 | 7 | 0 | 8 | 21 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 24 | 19 | 0 | 93 |
| 08:45 AM | 10 | 0 | 7 | 0 | 7 | 33 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 30 | 20 | 0 | 111 |
| Total | 40 | 1 | 23 | 0 | 29 | 117 | 1 | 0 | 3 | 6 | 4 | 0 | 1 | 130 | 109 | 0 | 464 |
| 09:00 AM | 7 | 0 | 4 | 0 | 14 | 25 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 23 | 20 | 0 | 96 |
| 09:15 AM | 18 | 0 | 6 | 0 | 5 | 31 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 36 | 12 | 0 | 109 |
| 09:30 AM | 16 | 0 | 13 | 0 | 5 | 22 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 20 | 11 | 0 | 89 |
| 09:45 AM | 10 | 0 | 7 | 0 | 5 | 28 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 38 | 20 | 0 | 112 |
| Total | 51 | 0 | 30 | 0 | 29 | 106 | 1 | 0 | 4 | 4 | 0 | 0 | 1 | 117 | 63 | 0 | 406 |
| 10:00 AM | 13 | 0 | 4 | 0 | 11 | 31 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 30 | 18 | 0 | 110 |
| 10:15 AM | 16 | 1 | 4 | 0 | 7 | 26 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 35 | 25 | 0 | 117 |
| 10:30 AM | 17 | 0 | 9 | 0 | 7 | 32 | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 38 | 22 | 0 | 130 |
| 10:45 AM | 27 | 1 | 4 | 0 | 14 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 24 | 0 | 123 |
| Total | 73 | 2 | 21 | 0 | 39 | 120 | 2 | 0 | 2 | 3 | 2 | 0 | 3 | 124 | 89 | 0 | 480 |
| 11:00 AM | 16 | 0 | 5 | 0 | 9 | 28 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 31 | 19 | 0 | 111 |
| 11:15 AM | 32 | 3 | 1 | 0 | 7 | 29 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 25 | 18 | 0 | 118 |
| 11:30 AM | 11 | 0 | 9 | 0 | 9 | 34 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 13 | 0 | 117 |
| 11:45 AM | 16 | 0 | 3 | 0 | 6 | 34 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 38 | 17 | 0 | 115 |
| Total | 75 | 3 | 18 | 0 | 31 | 125 | 2 | 0 | 2 | 3 | 0 | 0 | 1 | 134 | 67 | 0 | 461 |
| 12:00 PM | 24 | 2 | 4 | 0 | 7 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 31 | 19 | 0 | 110 |
| 12:15 PM | 26 | 2 | 4 | 0 | 8 | 25 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 33 | 30 | 0 | 132 |
| 12:30 PM | 25 | 1 | 2 | 0 | 9 | 26 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 31 | 17 | 0 | 115 |
| 12:45 PM | 17 | 1 | 10 | 0 | 1 | 22 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 27 | 25 | 0 | 107 |
| Total | 92 | 6 | 20 | 0 | 25 | 94 | 1 | 0 | 3 | 1 | 4 | 0 | 5 | 122 | 91 | 0 | 464 |
| 01:00 PM | 17 | 0 | 1 | 0 | 8 | 21 | 1 | 0 | 2 | 0 | 1 | 0 | 4 | 37 | 24 | 0 | 116 |
| 01:15 PM | 24 | 0 | 10 | 0 | 3 | 45 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 31 | 13 | 0 | 128 |
| 01:30 PM | 16 | 1 | 2 | 0 | 4 | 41 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 30 | 22 | 0 | 119 |
| 01:45 PM | 15 | 1 | 4 | 0 | 8 | 26 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 26 | 21 | 0 | 103 |
| Total | 72 | 2 | 17 | 0 | 23 | 133 | 2 | 0 | 2 | 2 | 4 | 0 | 5 | 124 | 80 | 0 | 466 |
| 02:00 PM | 15 | 0 | 7 | 0 | 9 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 22 | 0 | 129 |
| 02:15 PM | 21 | 1 | 9 | 0 | 8 | 34 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 34 | 27 | 0 | 137 |



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TH-13-Langford Ave at TH-19-280th St
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TURN MOVEMENT COUNT

File Name : TH-13 Langford Ave at TH-19 280th St
Site Code : 00000000
Start Date : 12/8/2020
Page No : 2

Groups Printed- Vehicles - Trucks

| Start Time | TH-13 Southbound | | | | TH-19 Westbound | | | | Lake Ave Northbound | | | | TH-19 Eastbound | | | | Int. Total |
|-------------|------------------|------|------|------|-----------------|------|------|------|---------------------|------|------|------|-----------------|------|------|------|------------|
| | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | |
| 02:30 PM | 23 | 2 | 11 | 0 | 1 | 50 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 43 | 22 | 0 | 156 |
| 02:45 PM | 29 | 2 | 15 | 0 | 10 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 41 | 19 | 0 | 153 |
| Total | 88 | 5 | 42 | 0 | 28 | 150 | 1 | 0 | 1 | 3 | 2 | 0 | 3 | 162 | 90 | 0 | 575 |
| 03:00 PM | 34 | 2 | 13 | 0 | 10 | 48 | 0 | 0 | 1 | 1 | 2 | 0 | 2 | 41 | 28 | 0 | 182 |
| 03:15 PM | 35 | 2 | 18 | 0 | 4 | 45 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 35 | 30 | 0 | 170 |
| 03:30 PM | 55 | 0 | 16 | 0 | 10 | 70 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 48 | 25 | 0 | 228 |
| 03:45 PM | 42 | 0 | 14 | 0 | 7 | 70 | 1 | 0 | 1 | 3 | 2 | 0 | 0 | 33 | 29 | 0 | 202 |
| Total | 166 | 4 | 61 | 0 | 31 | 233 | 1 | 0 | 3 | 4 | 6 | 0 | 4 | 157 | 112 | 0 | 782 |
| 04:00 PM | 38 | 1 | 17 | 0 | 11 | 64 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 72 | 16 | 0 | 224 |
| 04:15 PM | 44 | 1 | 21 | 0 | 10 | 71 | 1 | 0 | 0 | 0 | 4 | 0 | 1 | 53 | 29 | 0 | 235 |
| 04:30 PM | 51 | 4 | 14 | 0 | 4 | 82 | 2 | 0 | 1 | 1 | 0 | 0 | 2 | 47 | 25 | 0 | 233 |
| 04:45 PM | 55 | 5 | 15 | 0 | 4 | 72 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 54 | 18 | 0 | 228 |
| Total | 188 | 11 | 67 | 0 | 29 | 289 | 6 | 0 | 2 | 1 | 7 | 0 | 6 | 226 | 88 | 0 | 920 |
| 05:00 PM | 41 | 2 | 9 | 0 | 10 | 70 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 43 | 30 | 0 | 209 |
| 05:15 PM | 54 | 2 | 14 | 0 | 5 | 49 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 58 | 30 | 0 | 215 |
| 05:30 PM | 52 | 1 | 6 | 0 | 7 | 67 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 28 | 22 | 0 | 185 |
| 05:45 PM | 43 | 5 | 9 | 0 | 1 | 46 | 1 | 0 | 1 | 0 | 2 | 0 | 3 | 36 | 17 | 0 | 164 |
| Total | 190 | 10 | 38 | 0 | 23 | 232 | 3 | 0 | 2 | 1 | 5 | 0 | 5 | 165 | 99 | 0 | 773 |
| Grand Total | 1111 | 48 | 370 | 0 | 391 | 1791 | 21 | 0 | 28 | 45 | 38 | 0 | 39 | 1839 | 1210 | 0 | 6931 |
| Apprch % | 72.7 | 3.1 | 24.2 | 0 | 17.7 | 81.3 | 1 | 0 | 25.2 | 40.5 | 34.2 | 0 | 1.3 | 59.6 | 39.2 | 0 | |
| Total % | 16 | 0.7 | 5.3 | 0 | 5.6 | 25.8 | 0.3 | 0 | 0.4 | 0.6 | 0.5 | 0 | 0.6 | 26.5 | 17.5 | 0 | |
| Vehicles | 1085 | 41 | 332 | 0 | 353 | 1702 | 15 | 0 | 22 | 42 | 34 | 0 | 37 | 1737 | 1171 | 0 | 6571 |
| % Vehicles | 97.7 | 85.4 | 89.7 | 0 | 90.3 | 95 | 71.4 | 0 | 78.6 | 93.3 | 89.5 | 0 | 94.9 | 94.5 | 96.8 | 0 | 94.8 |
| Trucks | 26 | 7 | 38 | 0 | 38 | 89 | 6 | 0 | 6 | 3 | 4 | 0 | 2 | 102 | 39 | 0 | 360 |
| % Trucks | 2.3 | 14.6 | 10.3 | 0 | 9.7 | 5 | 28.6 | 0 | 21.4 | 6.7 | 10.5 | 0 | 5.1 | 5.5 | 3.2 | 0 | 5.2 |



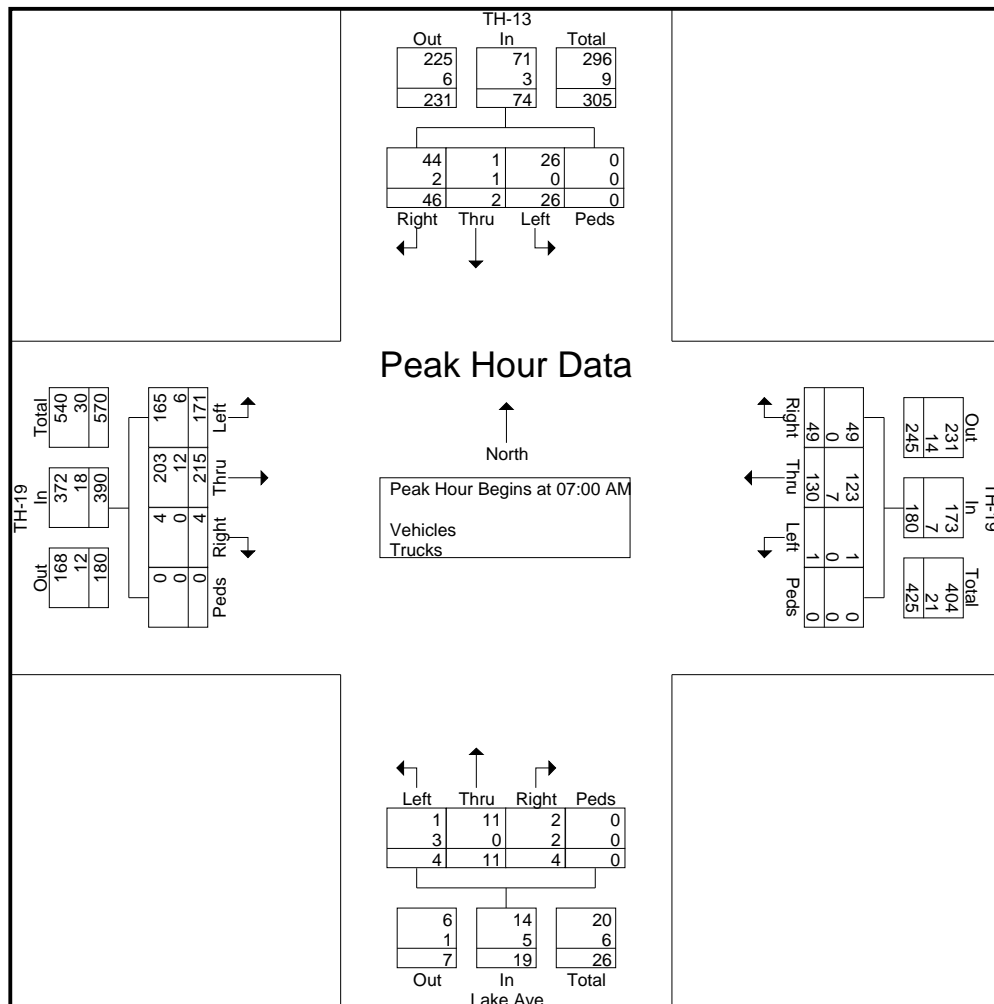
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TH-13-Langford Ave at TH-19-280th St
County: Scott County
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TURN MOVEMENT COUNT

File Name : TH-13 Langford Ave at TH-19 280th St
Site Code : 00000000
Start Date : 12/8/2020
Page No : 3

| Start Time | TH-13 Southbound | | | | | TH-19 Westbound | | | | | Lake Ave Northbound | | | | | TH-19 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 AM to 12:00 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:00 AM | 6 | 0 | 4 | 0 | 10 | 12 | 26 | 1 | 0 | 39 | 0 | 4 | 0 | 0 | 4 | 2 | 56 | 36 | 0 | 94 | 147 |
| 07:15 AM | 14 | 1 | 8 | 0 | 23 | 14 | 36 | 0 | 0 | 50 | 1 | 4 | 1 | 0 | 6 | 1 | 50 | 41 | 0 | 92 | 171 |
| 07:30 AM | 11 | 1 | 9 | 0 | 21 | 17 | 35 | 0 | 0 | 52 | 2 | 2 | 3 | 0 | 7 | 0 | 52 | 52 | 0 | 104 | 184 |
| 07:45 AM | 15 | 0 | 5 | 0 | 20 | 6 | 33 | 0 | 0 | 39 | 1 | 1 | 0 | 0 | 2 | 1 | 57 | 42 | 0 | 100 | 161 |
| Total Volume | 46 | 2 | 26 | 0 | 74 | 49 | 130 | 1 | 0 | 180 | 4 | 11 | 4 | 0 | 19 | 4 | 215 | 171 | 0 | 390 | 663 |
| % App. Total | 62.2 | 2.7 | 35.1 | 0 | | 27.2 | 72.2 | 0.6 | 0 | | 21.1 | 57.9 | 21.1 | 0 | | 1 | 55.1 | 43.8 | 0 | | |
| PHF | .767 | .500 | .722 | .000 | .804 | .721 | .903 | .250 | .000 | .865 | .500 | .688 | .333 | .000 | .679 | .500 | .943 | .822 | .000 | .938 | .901 |
| Vehicles | 44 | 1 | 26 | 0 | 71 | 49 | 123 | 1 | 0 | 173 | 2 | 11 | 1 | 0 | 14 | 4 | 203 | 165 | 0 | 372 | 630 |
| % Vehicles | 95.7 | 50.0 | 100 | 0 | 95.9 | 100 | 94.6 | 100 | 0 | 96.1 | 50.0 | 100 | 25.0 | 0 | 73.7 | 100 | 94.4 | 96.5 | 0 | 95.4 | 95.0 |
| Trucks | 2 | 1 | 0 | 0 | 3 | 0 | 7 | 0 | 0 | 7 | 2 | 0 | 3 | 0 | 5 | 0 | 12 | 6 | 0 | 18 | 33 |
| % Trucks | 4.3 | 50.0 | 0 | 0 | 4.1 | 0 | 5.4 | 0 | 0 | 3.9 | 50.0 | 0 | 75.0 | 0 | 26.3 | 0 | 5.6 | 3.5 | 0 | 4.6 | 5.0 |





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File Name : TH-13 Langford Ave at TH-19 280th St
Site Code : 00000000
Start Date : 12/8/2020
Page No : 4

| Start Time | TH-13 Southbound | | | | | TH-19 Westbound | | | | | Lake Ave Northbound | | | | | TH-19 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 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:00 PM | 38 | 1 | 17 | 0 | 56 | 11 | 64 | 2 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 3 | 72 | 16 | 0 | 91 | 224 |
| 04:15 PM | 44 | 1 | 21 | 0 | 66 | 10 | 71 | 1 | 0 | 82 | 0 | 0 | 4 | 0 | 4 | 1 | 53 | 29 | 0 | 83 | 235 |
| 04:30 PM | 51 | 4 | 14 | 0 | 69 | 4 | 82 | 2 | 0 | 88 | 1 | 1 | 0 | 0 | 2 | 2 | 47 | 25 | 0 | 74 | 233 |
| 04:45 PM | 55 | 5 | 15 | 0 | 75 | 4 | 72 | 1 | 0 | 77 | 1 | 0 | 3 | 0 | 4 | 0 | 54 | 18 | 0 | 72 | 228 |
| Total Volume | 188 | 11 | 67 | 0 | 266 | 29 | 289 | 6 | 0 | 324 | 2 | 1 | 7 | 0 | 10 | 6 | 226 | 88 | 0 | 320 | 920 |
| % App. Total | 70.7 | 4.1 | 25.2 | 0 | | 9 | 89.2 | 1.9 | 0 | | 20 | 10 | 70 | 0 | | 1.9 | 70.6 | 27.5 | 0 | | |
| PHF | .855 | .550 | .798 | .000 | .887 | .659 | .881 | .750 | .000 | .920 | .500 | .250 | .438 | .000 | .625 | .500 | .785 | .759 | .000 | .879 | .979 |
| Vehicles | 186 | 11 | 66 | 0 | 263 | 25 | 284 | 4 | 0 | 313 | 2 | 1 | 7 | 0 | 10 | 6 | 218 | 87 | 0 | 311 | 897 |
| % Vehicles | 98.9 | 100 | 98.5 | 0 | 98.9 | 86.2 | 98.3 | 66.7 | 0 | 96.6 | 100 | 100 | 100 | 0 | 100 | 100 | 96.5 | 98.9 | 0 | 97.2 | 97.5 |
| Trucks | 2 | 0 | 1 | 0 | 3 | 4 | 5 | 2 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 9 | 23 |
| % Trucks | 1.1 | 0 | 1.5 | 0 | 1.1 | 13.8 | 1.7 | 33.3 | 0 | 3.4 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5 | 1.1 | 0 | 2.8 | 2.5 |

