Crossing Item Reliability Table

Crossings: Crosswalk Amenities Items and Subscale

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| Item | Item Content | Range | N | Inter-Rater Agreement | | Rater | Mean | (SD) | Frequencies |
| Kappa/ICC | % agreement |
| C1\_7c | Crossing aids | 0-1 | 319 | .664 (K) | 99.3 | Rater 1 | .01 | .11 | 0: 313  1: 4 |
| Rater 2 | .01 | .08 | 0: 317  1: 2 |
| C1\_8a | Marked crosswalk | 0-1 | 319 | .744 | 89.0 | Rater 1 | .28 | .45 | 0: 230  1: 89 |
| Rater 2 | .34 | .47 | 0: 211  1: 108 |
| C1\_8b | High-visibility striping | 0-1 | 319 | .816 | 95.0 | Rater 1 | .16 | .37 | 0: 269  1: 50 |
| Rater 2 | .17 | .38 | 0: 265  1: 54 |
| C1\_8c | Stop lines on road or addnl crosswalk warnings | 0-1 | 319 | .725 | 86.8 | Rater 1 | .38 | .49 | 0: 198  1: 121 |
| Rater 2 | .41 | .49 | 0: 188  1:131 |
| C1\_8d | Raised crosswalk | 0-1 | 319 | n/a | 99.7 | Rater 1 | .00 | .00 | 0: 319  1: 0 |
| Rater 2 | .00 | .06 | 0: 318  1: 1 |
| C1\_8e | Different material than road | 0-1 | 319 | .456 | 91.9 | Rater 1 | .08 | .28 | 0: 292  1: 27 |
| Rater 2 | .08 | .27 | 0: 294  1: 25 |
| C1\_11c | Protected refuge islands | 0-1 | 319 | .577 | 94.7 | Rater 1 | .06 | .23 | 0: 301  1: 18 |
| Rater 2 | .08 | .27 | 0: 294  1: 25 |
| C1\_11e | Curb extensions | 0-1 | 319 | -.012 | 97.5 | Rater 1 | .02 | .12 | 0: 314  1: 5 |
| Rater 2 | .01 | .10 | 0: 316  1: 3 |

Crossings: Curb Quality Items and Subscale

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| Item | Item Content | Range | N | Inter-Rater Agreement | | Rater | Mean | (SD) | Frequencies |
| Kappa/ICC | % agreement |
| C1\_5a | Pre-crossing curb | 1-3 | 319 | .825 | 83.7 | Rater 1 | 1.57 | .85 | 1: 214  2: 31  3: 76 |
| Rater 2 | 1.53 | .83 | 1: 220  2: 28  3: 71 |
| C1\_5a\_opt1 | Pre-crossing curb  Recode | 0-1  (1=ramp lines up with xing, 0=ramp does not line up or no ramp) | 319 | .648 | 84.7 | Rater 1 | n/a | n/a | 0: 106  1: 213 |
| Rater 2 | n/a | n/a | 0: 99  1: 220 |
| C1\_5b | Post-crossing curb  Recode | 1-3 | 319 | .779 | 81.8 | Rater 1 | 1.58 | .86 | 1: 214  2: 27  3: 80 |
| Rater 2 | 1.58 | .87 | 1: 216  2: 21  3: 82 |
| C1\_5b\_opt1 | Post-crossing curb  Recode | 0-1  (1=ramp lines up with xing, 0=ramp does not line up or no ramp) | 319 | .651 | 84.7 | Rater 1 | n/a | n/a | 0: 106  1: 213 |
| Rater 2 | n/a | n/a | 0: 103  1:216 |

Crossings: Intersection Control and Signage Items and Subscale

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| Item | Item Content | Range | N | Inter-Rater Agreement | | Rater | Mean | (SD) | Frequencies |
| Kappa/ICC | % agreement |
| C1\_1a | Intersection control: Yield signs | 0-1 | 319 | .659 (K) | 98.2 | Rater 1 | .02 | .14 | 0: 312  1:7 |
| Rater 2 | .03 | .16 | 0: 311  1: 8 |
| C1\_1b | Intersection control: Stop signs | 0-1 | 319 | .767 | 88.4 | Rater 1 | .53 | .50 | 0: 150  1: 169 |
| Rater 2 | .53 | .50 | 0: 149  1: 170 |
| C1\_1c | Intersection control: Traffic signal | 0-1 | 319 | .811 | 93.4 | Rater 1 | .21 | .40 | 0: 251  1: 4 |
| Rater 2 | .24 | .42 | 0: 244  1: 75 |
| C1\_1d | Intersection control: Traffic circle | 0-1 | 319 | .327 | 98.7 | Rater 1 | .01 | .10 | 0: 316  1: 3 |
| Rater 2 | .01 | .10 | 0: 316  1: 3 |
| C1\_3a | Signalization: Green arrows for dedicated vehicle turn | 0-1 | 319 | .628 | 93.1 | Rater 1 | .11 | .31 | 0: 285  1: 34 |
| Rater 2 | .10 | .30 | 0: 287  0: 32 |
| C1\_3b | Signalization: Pedestrian walk signals | 0-1 | 319 | .785 | 93.1 | Rater 1 | .19 | .39 | 0: 257  1: 62 |
| Rater 2 | .21 | .41 | 0: 253  1:66 |
| C1\_3c | Signalization: Push buttons | 0-1 | 319 | .738 | 92.8 | Rater 1 | .15 | .35 | 0: 272  1:47 |
| Rater 2 | .18 | .39 | 0: 261  1: 58 |
| C1\_3d | Signalization: Countdown signal | 0-1 | 319 | .458 | 95.3 | Rater 1 | .05 | .21 | 0: 304  1: 15 |
| Rater 2 | .04 | .20 | 0: 305  1: 14 |
| C1\_3e | Signalization: Audible walk signal | 0-1 | 319 | .387 | 97.1 | Rater 1 | .02 | .12 | 0: 314  1: 5 |
| Rater 2 | .03 | .17 | 0: 309  1: 10 |
| C1\_11a | Features: Specifically Id’ed lanes turning into crossing-right turn | 0-1 | 319 | .470 (K) | 94.3 | Rater 1 | .06 | .24 | 0: 300  1: 19 |
| Rater 2 | .05 | .22 | 0: 302  1: 17 |

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| Item | Item Content | Range | N | Inter-Rater Agreement | | Rater | Mean | (SD) | Frequencies |
| Kappa/ICC | % agreement |
| C1\_11b | Features: Specifically Id’ed lanes turning into crossing-left turn | 0-1 | 319 | .561 | 90.0 | Rater 1 | .13 | .34 | 0: 276  1: 43 |
| Rater 2 | .13 | .33 | 0: 278  1: 41 |
| C1\_11d | Features: One-way streets through crossing | 0-1 | 319 | .380 | 93.7 | Rater 1 | .05 | .22 | 0: 304  1: 17 |
| Rater 2 | .05 | .22 | 0: 302  1: 17 |

Crossings: Road Width Items and Subscale

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| Item | Item Content | Range | N | Inter-Rater Agreement | | Rater | Mean | (SD) | Frequencies |
| Kappa/ICC | % agreement |
| C1\_10 | Distance of crossing leg, including all potential parking and turn lanes (# lanes) | 1-8 | 319 | .524 (K)  .595 (ICC) | 66.0 | Rater 1 | 3.24 | 1.13 | 1: 7  2: 93  3: 76  4: 117  5: 12  6: 10  7: 3 |
| Rater 2 | 3.40 | 1.13 | 1: 3  2: 86  3: 61  4: 136  5: 17  6: 12  7: 3  8: 1 |
| C1\_10\_trichot/ Road\_width\_sum | Distance of crossing leg  Trichotomized  Also is Road Width subscale | See subscale data in paper | 319 |  |  | Rater 1 | - | - |  |
| Rater 2 | - | - |  |

Crossings: Impediments Items and Subscale

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| Item | Item Content | Range | N | Inter-Rater Agreement | | Rater | Mean | (SD) | Frequencies |
| Kappa/ICC | % agreement |
| C1\_5a\_opt3 | Pre-crossing curb-option 3: No ramp | 0-1 | 319 | .893 | 96.2 | Rater 1 | n/a | n/a | 0: 244  1: 75 |
| Rater 2 | n/a | n/a | 0: 248  1: 71 |
| C1\_5b\_opt3 | Post-crossing curb-option 3: No ramp | 0-1 | 319 | .792 | 92.1 | Rater 1 | n/a | n/a | 0: 240  1: 79 |
| Rater 2 | n/a | n/a | 0: 237  1: 82 |
| C1\_6 | Gutters present in crossing | 0-1 | 319 | .325 | 83.0 | Rater 1 | .21 | .41 | 0: 251  1: 66 |
| Rater 2 | .08 | .26 | 0: 295  0: 24 |
| C1\_7a | Other characteristics of crossing: Steep slope or cross-slope | 0-1 | 319 | .053 | 93.4 | Rater 1 | .03 | .08 | 0: 306  1: 11 |
| Rater 2 | .04 | .19 | 0: 307  1:12 |
| C1\_7b | Other characteristics of crossing: Temporary obstructions | 0-1 | 319 | .498 | 99.4 | Rater 1 | .00 | .06 | 0: 316  1:1 |
| Rater 2 | .01 | .10 | 0: 316  1: 3 |
| C1\_12c | Misc problems: Poor visibility at corners | 0-1 | 319 | .188 | 97.5 | Rater 1 | .02 | .14 | 0: 313  1: 6 |
| Rater 2 | .01 | .11 | 0: 315  1: 4 |
| C1\_12d | Misc problems: Faded or worn crosswalk markings | 0-1 | 319 | .623 | 97.5 | Rater 1 | .03 | .17 | 0: 309  1: 10 |
| Rater 2 | .04 | .19 | 0: 307  1: 12 |