Appendix D: High Risk Network Methodology and Maps

The High Risk Network was created using City of Cortez Street Light data. Five Streetlight datasets for 997 street segments were combined to identify areas that may pose a higher risk for injury crashes. The five different data sets (criteria) were:

- 2022 Street Light Average Annual Daily Traffic (AADT) Estimates
- 2021 Street Light Bicycle Volume Estimates
- 2021 Street Light Pedestrian Volume Estimates
- 2023 Street Light Average Speed Estimates (All Vehicles)
- 2021 Street Light Truck Volume Estimates

Each criterion's corresponding attribute was assigned a value between 1 – 5 based on the natural breakdown of values for each criteria's attributes.

Table 1: 2022 Street Light AADT Estimates

AADT Estimates	Score	# of roadway segments
64 - 984	1	693
985 – 2,891	2	132
2,892 – 5,328	3	81
5,329 – 9,105	4	48
9,106 – 14,627	5	38

Table 2: 2021 Street Light Bicycle Volume Estimates

Bicycle Volume Estimates	Score	# of roadway segments
0 - 3	1	352
4 - 8	2	180
9 - 17	3	49
18 - 39	4	33
40 - 59	5	5

Table 3: 2021 Street Light Pedestrian Volume Estimates

Pedestrian Volume Estimates	Score	# of roadway segments
0 - 56	1	615
57 - 148	2	199
149 - 342	3	117
343 - 835	4	33
836 - 1810	5	5

Table 4: 2023 Street Light Average Speed Estimates (All Vehicles)

Average Speed Estimates	Score	# of roadway segments
6 - 17	1	428
18 -25	2	224
26 -35	3	107
36 -45	4	111
46 - 62	5	37

Table 5: 2021 Street Light Truck Volume Estimates

Truck Volume Estimates	Score	# of roadway segments
0 - 18	1	484
19 - 47	2	250
48 - 86	3	97
87 - 150	4	71
151 - 249	5	49

After each road segment was assigned a score based off the five different criteria values, the scores were then averaged to create one overarching score. The total score ranged between 1 – 5, representing the road segments' potential for injury.

Cortez High Risk Network

Average
- 0.0 - 1.0 | 305
- 1.1 - 1.4 | 238
- 1.5 - 2.0 | 246
- 2.1 - 2.6 | 112
- 2.7 - 3.6 | 96
- Cortez City Limits

N

0   0.35   0.7 Miles

Cortez High Risk Network – Top Two Tiers

Average
0.0 - 1.0	305
1.1 - 1.4	238
1.5 - 2.0	246
2.1 - 2.6	112
2.7 - 3.6	96
Cortez City Limits	

0   0.35   0.7 Miles

Average Daily Pedestrian Volume

Cortez City Limits

Average Daily Pedestrian Volume

- 0 - 56
- 57 - 148
- 149 - 342
- 343 - 835
- 836 - 1753

N

1 Mi

Average Daily Bicycle Volume

Cortez City Limits

Average Daily Zone
Traffic (StL Volume)

0 - 3
4 - 8
9 - 17
18 - 31
32 - 49

Average Annual Daily Traffic

Totten Lake

Cortez

Rocky Ford Ditch

Estimated 2022 AADT (All Vehicles)

— 64 - 984
— 985 - 2891
— 2892 - 5328
— 5329 - 9105
— 9106 - 14627
▢ Cortez City Limits

N

1
⊢————————⊣ Mi

Average Speed

Cortez City Limits

Average Speed
6 - 17
18 - 25
26 - 35
36 - 45
46 - 62

N

1 Mi

Average Daily Truck Traffic

Average Daily
Truck Traffic

— 0 - 18
— 19 - 47
— 48 - 86
— 87 - 150
— 151 - 249
☐ Cortez City Limits

N

1
Mi

Totten Lake

Cortez

Rocky Ford Ditch