Safe Intersections for All Crash Analysis (Crash Data 2019-2023)														
Intersection	Mainline AADT	Side Road AADT	AADT Entering	Total Crashes	KAB Crashes	Ped and Bike Crashes	Intersection Crash Rate (per million entering vehicles)	KAB Crash Rate (per million entering vehicles)	Ranking Intersection Crash Rate	Ranking KAB Crash Rate	Ranking Bike and Ped Crashes	Total Score	Weighted Score	Weighted Overall Ranking
Capitol & 27th	31,300	13,000	44,300	206	40	13	2.548	0.495	6	1	1	8	10	1
16th & Mitchell	10,950	6,700	17,650	103	11	6	3.198	0.341	1	2	4	7	12	2
Capitol & 35th *	44,350	10,600	54,950	284	32	4	2.832	0.319	2	3	7	12	21	3
Capitol & Teutonia	33,250	10,125	43,375	172	24	7	2.173	0.303	8	5	3	16	22	4
Forest Home & Lincoln*	9,350	11,400	20,750	105	11	6	2.773	0.290	5	7	4	16	24	5
16th & Burnham	10,000	3,850	13,850	71	8	4	2.809	0.317	4	4	7	15	24	5
Cesar Chavez & Scott	12,550	2,100	14,650	45	8	3	1.683	0.299	13	6	9	28	40	7
Greenfield & 6th	6,900	9,600	16,500	63	8	3	2.092	0.266	9	9	9	27	41	8
Capitol & 20th	28,800	3,500	32,300	75	13	8	1.272	0.221	18	14	2	34	43	9
Cesar Chavez & Greenfield*	12,450	16,600	29,050	149	8	3	2.810	0.151	3	17	9	29	47	10
Capitol & Atkinson*	26,400	11,625	38,025	101	14	6	1.455	0.202	16	15	4	35	47	10
Atkinson & 12th	14,800	1,000	15,800	30	8	3	1.040	0.277	22	8	9	39	52	12
Cesar Chavez & Lapham	11,300	3,150	14,450	31	7	3	1.176	0.265	19	10	9	38	52	12
16th & Forest Home	8,900	5,850	14,750	48	7	1	1.783	0.260	12	12	16	40	62	14
Greenfield & 11th	10,400	4,250	14,650	53	7	0	1.982	0.262	10	11	18	39	63	15
Atkinson & MLK*	9,850	14,300	24,150	60	11	0	1.361	0.250	17	13	18	48	73	16
Forest Home & 20th*	6,350	4,400	10,750	47	2	0	2.396	0.102	7	20	18	45	73	16
Atkinson & 7th	8,500	4,650	13,150	47	3	0	1.958	0.125	11	18	18	47	74	18
Cesar Chavez & Pierce	9,350	1,650	11,000	30	4	0	1.494	0.199	15	16	18	49	75	19
Cesar Chavez & Mineral	12,550	3,400	15,950	46	2	2	1.580	0.069	14	22	14	50	75	19
Capitol & 31st	44,350	6,000	50,350	104	11	2	1.132	0.120	20	19	14	53	77	21
Cesar Chavez & Washington	12,550	1,600	14,150	27	2	1	1.046	0.077	21	21	16	58	85	22
Capitol & 15th	22,650	1,000	23,650	17	2	0	0.394	0.046	23	23	18	64	94	23

The lowest ranking indicates the worst safety performance.

*The asterisk indicates intersections with complex geometrics: Capitol and 35th, Capitol and Atkinson, Atkinson and MLK, Cesar Chavez and Greenfield, Forest Home and 20th, Forest Home and Lincoln

Weighted score: 1.0 for intersection crash rate, 1.5 for KAB crash rate, and 2.0 for ped/bike crashes

Assumptions
1) 12th St AADT is 1,000 - no traffic data available
2) 15th St AADT is 1,000 - no traffic data available

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Equation 4: Intersection Crash Rate

$$\text{Intersection Crash Rate} = \frac{C * 1{,}000{,}000}{AADT_{ent} * Y * 365} = \text{Crashes } per \text{ 1 million entering vehicles (MEV)}$$

C = Number of crashes in the time period analyzed (preferably 5 years) within the influence area of the intersection
$AADT_{ent}$ = Annual Average Daily Traffic entering the intersection
Y = Number of years analyzed (preferably 5)