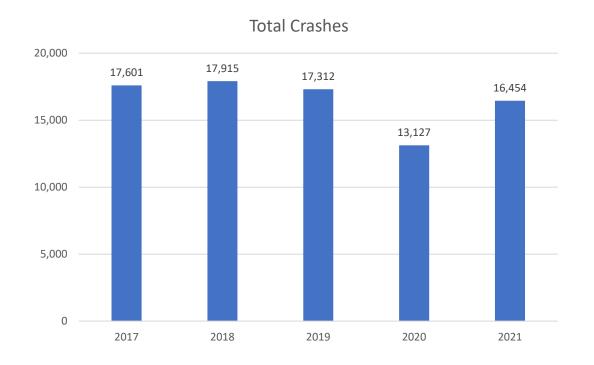


EL PASO ★ **ONE VISION FOR SAFE STREETS**

Collision Landscape Summary – Initial Results
September 2022
Fehr & Peers

Full Collision Dataset





Filtered Collision Dataset Details

Date Range: January 1st, 2017 – December 31st, 2021

Filters:

- Collisions missing Lat/Long removed (3 collisions manually geocoded) 13,260 collisions, 62 KSI (55% are non-injury)
- State facilities not maintained by the City removed (e.g. I-10, 375, 54) 25,192 collisions, 456 KSI
- Remaining "Not Injured" collisions removed 39,242 collisions, 0 KSI
- Result is all injury collisions on City-managed roadways that can be mapped

Summary:

Total Collision Count: 17,975

KSI Collision Count: 727

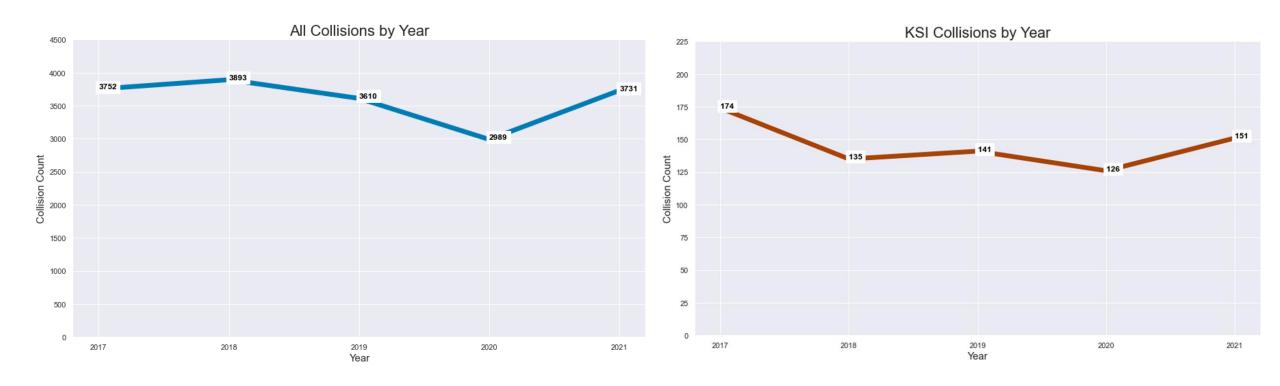
Bike Collision Count: 204

Pedestrian Collision Count: 596

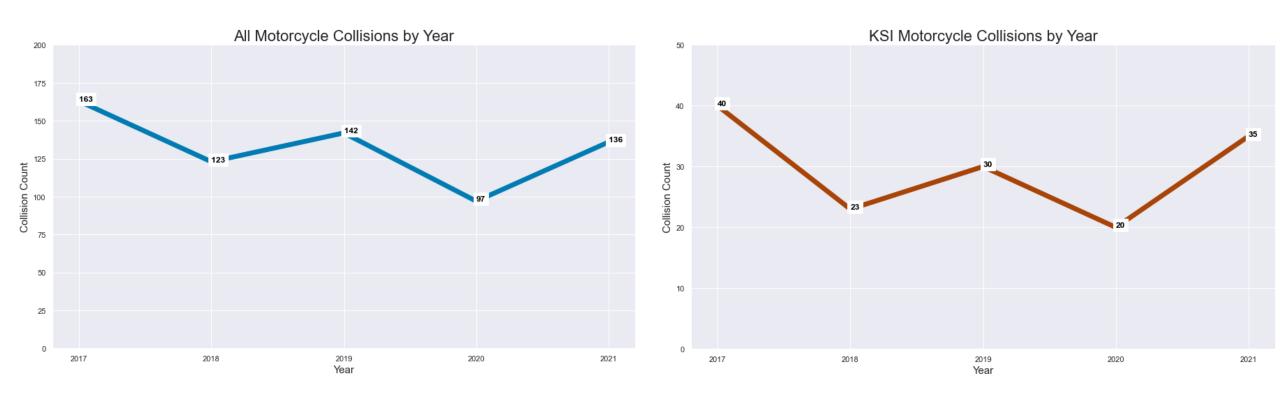
Ped & Bike KSI Collision Count: 156

Note: KSI = "Killed or Seriously Injured"

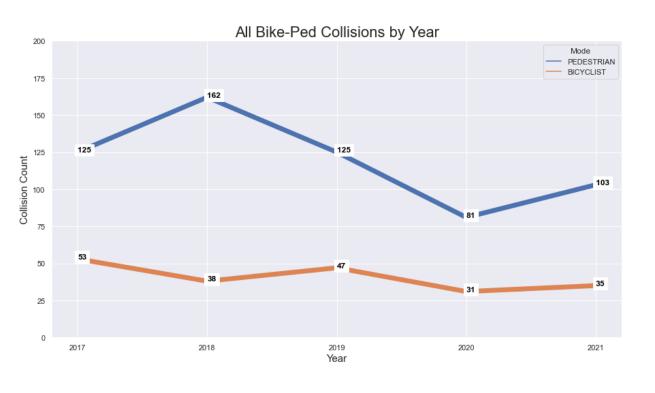
Year - All

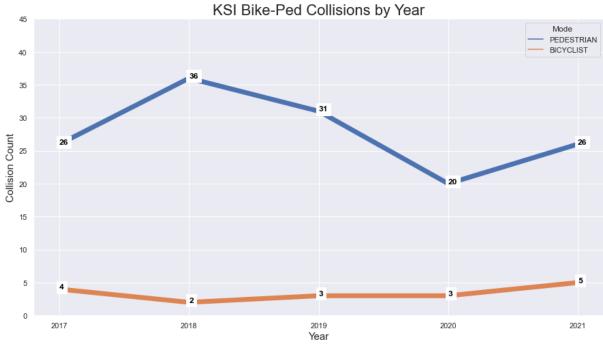


Year – Motorcycle



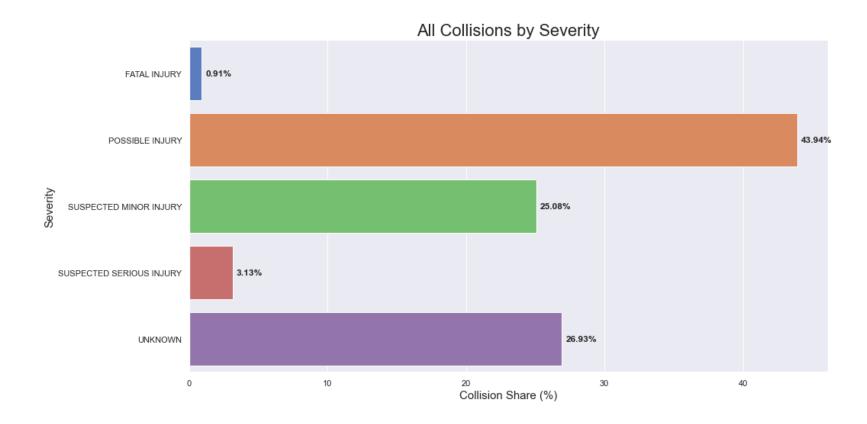
Year – Bike & Ped





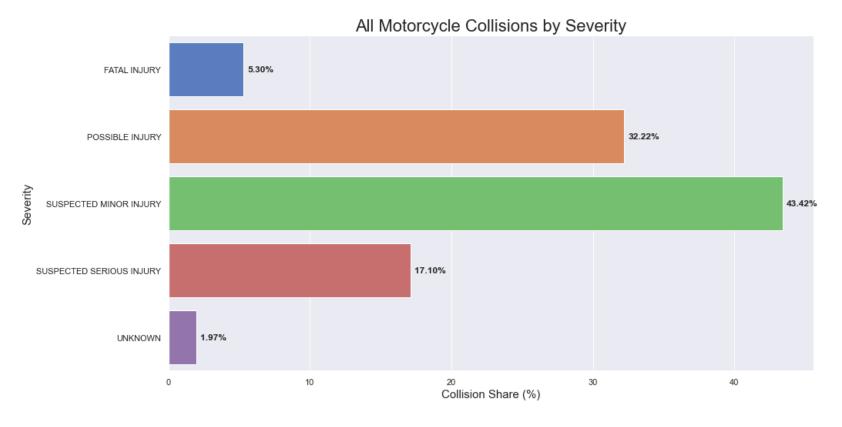
Severity – All

CRASH_SEV_ID	COUNT	SHARE
FATAL INJURY	164	0.912378
POSSIBLE INJURY	7898	43.938804
SUSPECTED MINOR INJURY	4509	25.084840
SUSPECTED SERIOUS INJURY	563	3.132128
UNKNOWN	4841	26.931850



Severity – Motorcycle

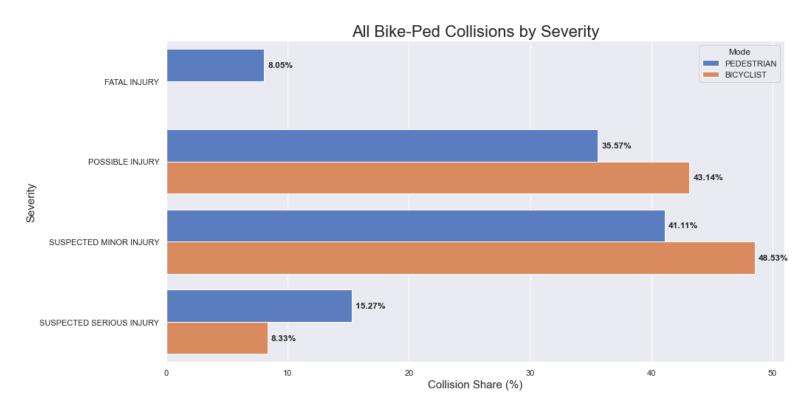
CRASH_SEV_ID	COUNT	SHARE
FATAL INJURY	35	5.295008
POSSIBLE INJURY	213	32.223903
SUSPECTED MINOR INJURY	287	43.419062
SUSPECTED SERIOUS INJURY	113	17.095310
UNKNOWN	13	1.966717



22% of motorcycle injury collisions result in a fatality or serious injury, compared with 4% of all injury collisions

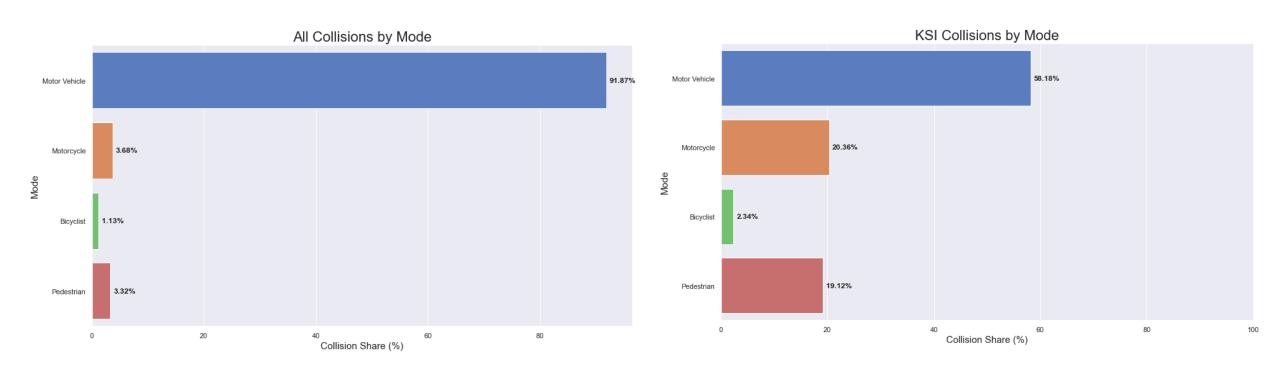
Severity – Bike & Ped

CRASH_SEV_ID	CRASH_MODE_2	COUNT	SHARE
FATAL INJURY	PEDESTRIAN	48	8.053691
POSSIBLE INJURY	BICYCLIST	88	43.137255
POSSIBLE INJURY	PEDESTRIAN	212	35.570470
SUSPECTED MINOR INJURY	BICYCLIST	99	48.529412
SUSPECTED MINOR INJURY	PEDESTRIAN	245	41.107383
SUSPECTED SERIOUS INJURY	BICYCLIST	17	8.333333
SUSPECTED SERIOUS INJURY	PEDESTRIAN	91	15.268456



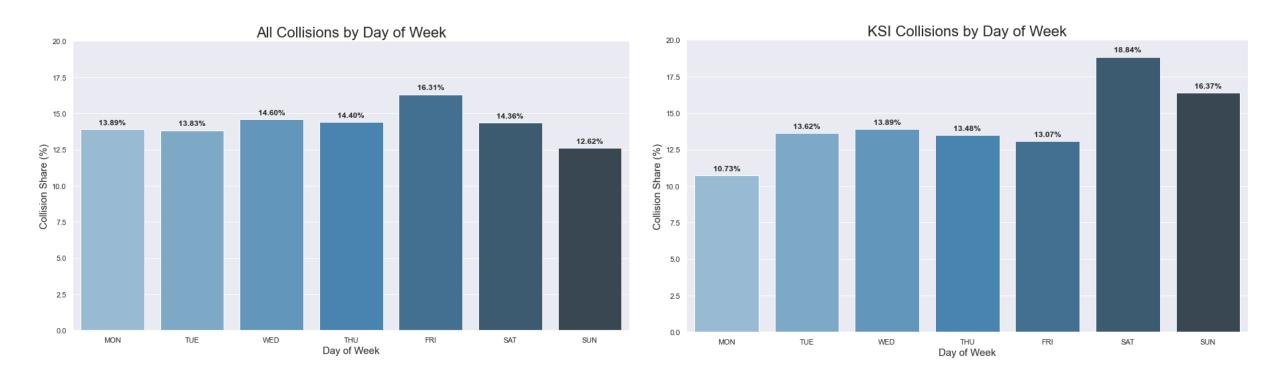
23% of pedestrian injury collisions result in a fatality or serious injury, compared with 4% of all injury collisions

Mode – All



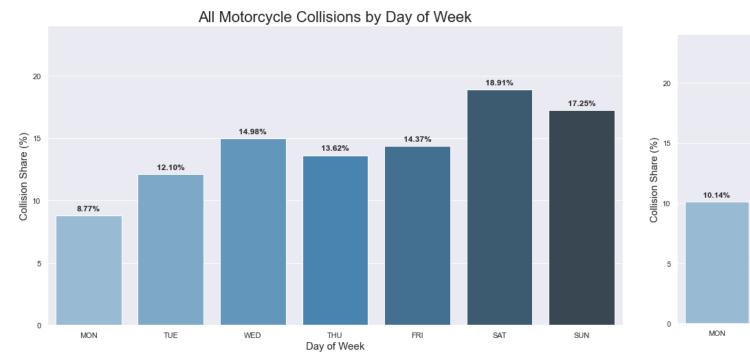
Pedestrian and motorcycle modes each account for 20% of all KSI crashes, but just 3-4% each of all injury crashes

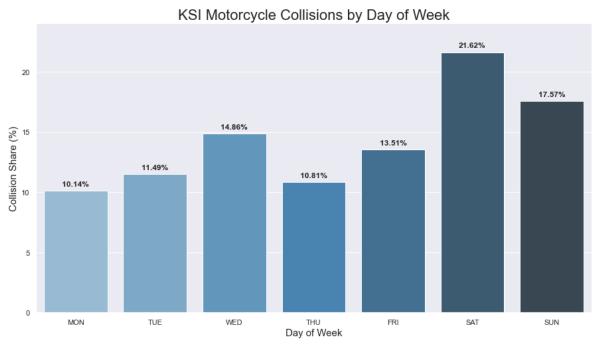
Day of Week – All



Total number of collisions decreases on the weekend, while number of KSI crashes peaks

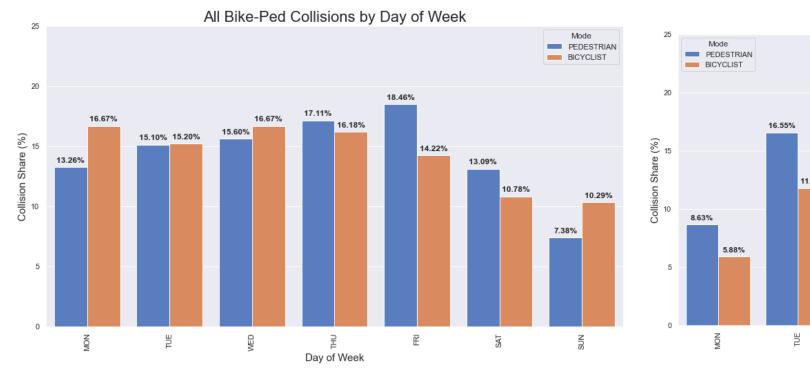
Day of Week – Motorcycle

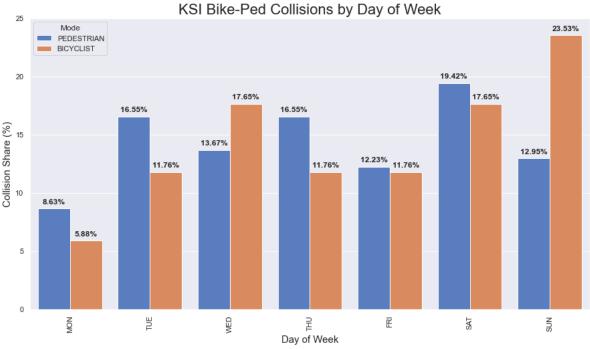




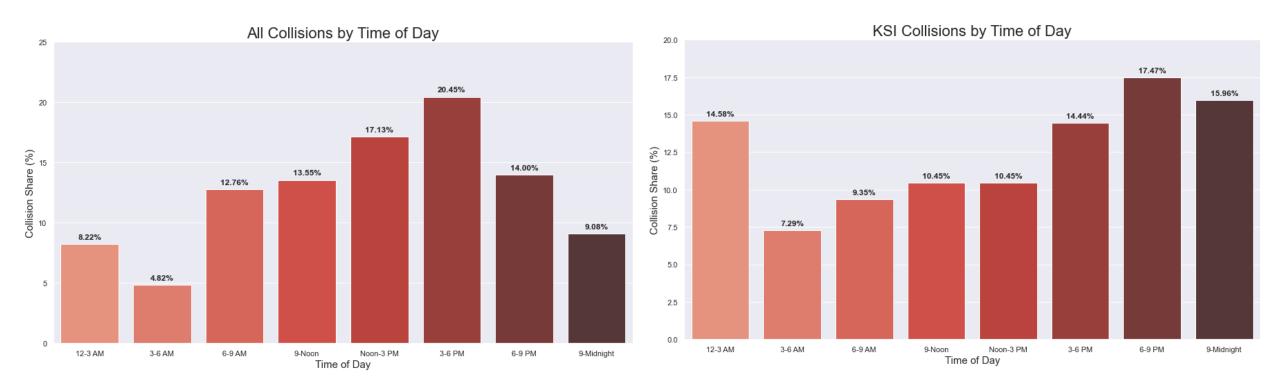
Motorcycle crashes peak on the weekend

Day of Week – Bike & Ped



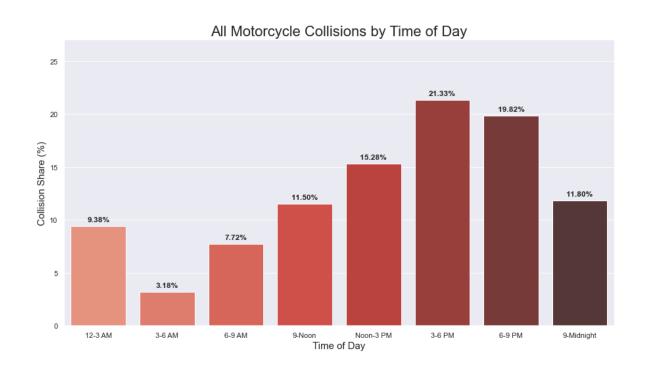


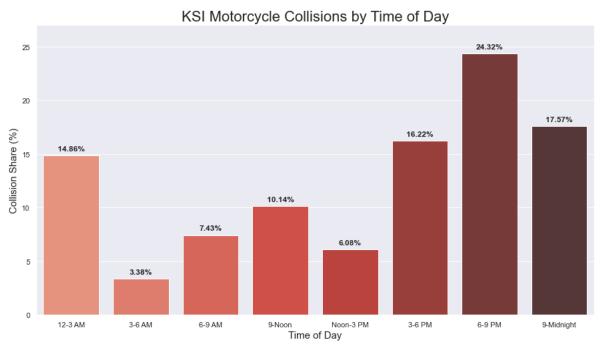
Time of Day - All



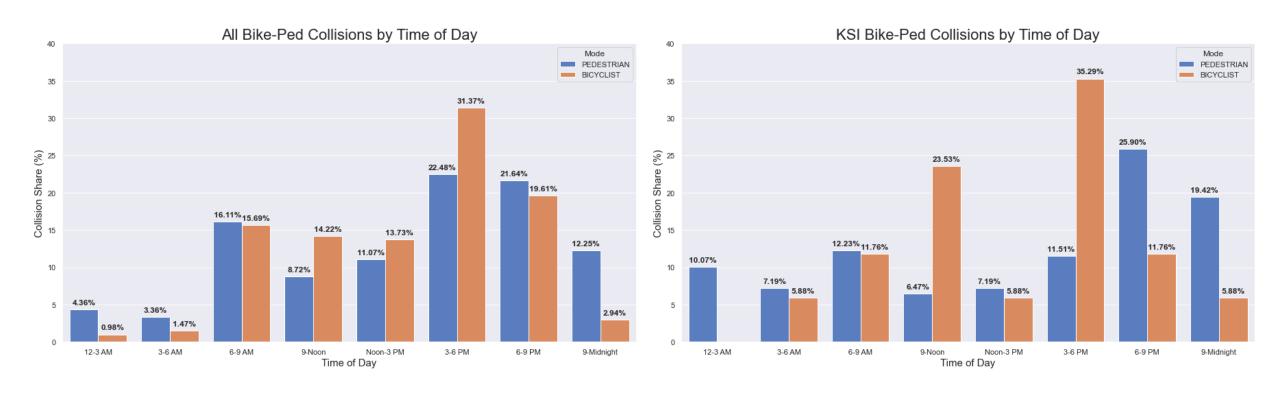
Total number of collisions highest during PM commute, while KSI crashes highest nighttime and overnight

Time of Day - Motorcycle

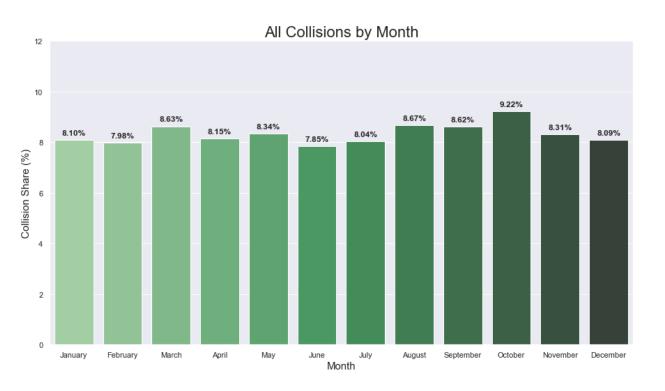


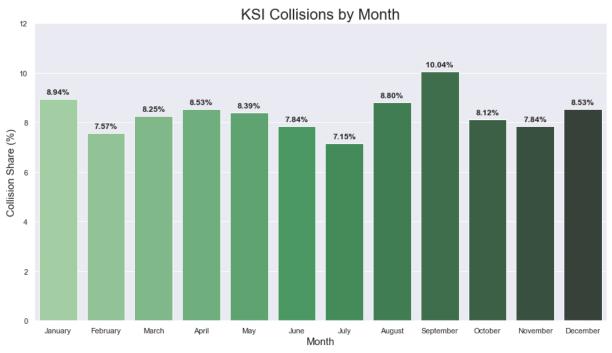


Time of Day – Bike & Ped

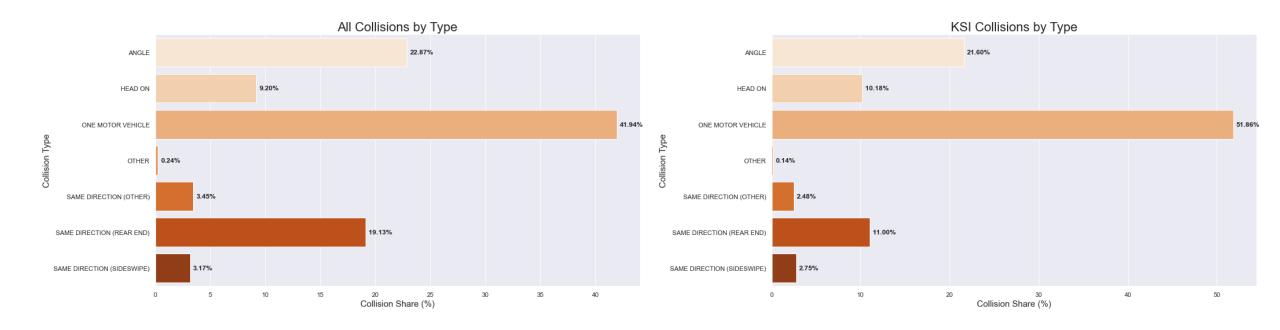


Month- All

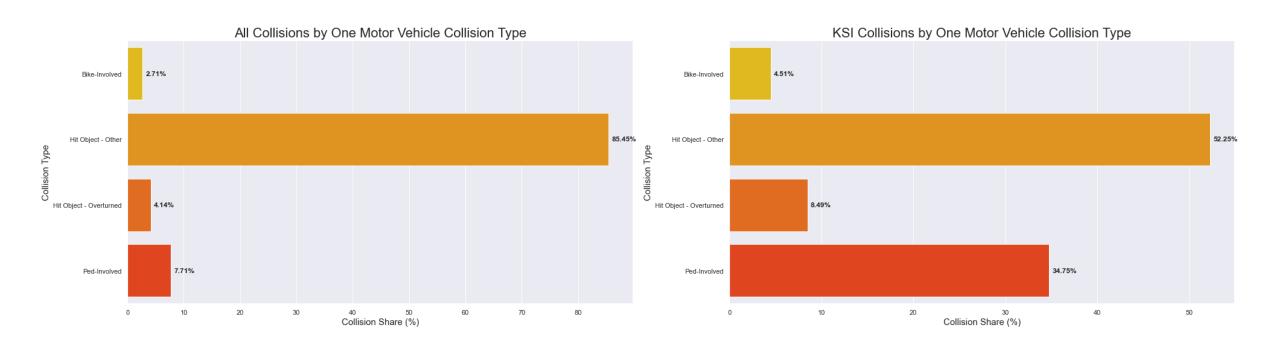




Collisions by Type - All



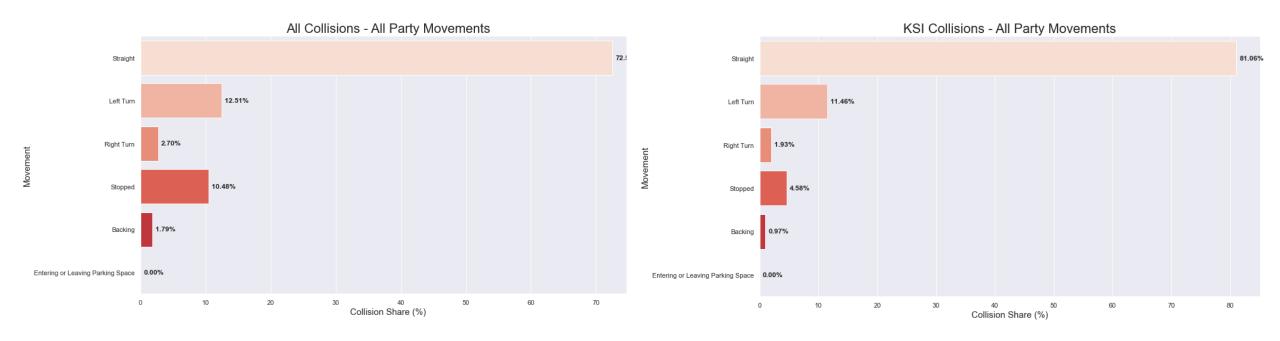
Collisions by Type – One Vehicle Collisions



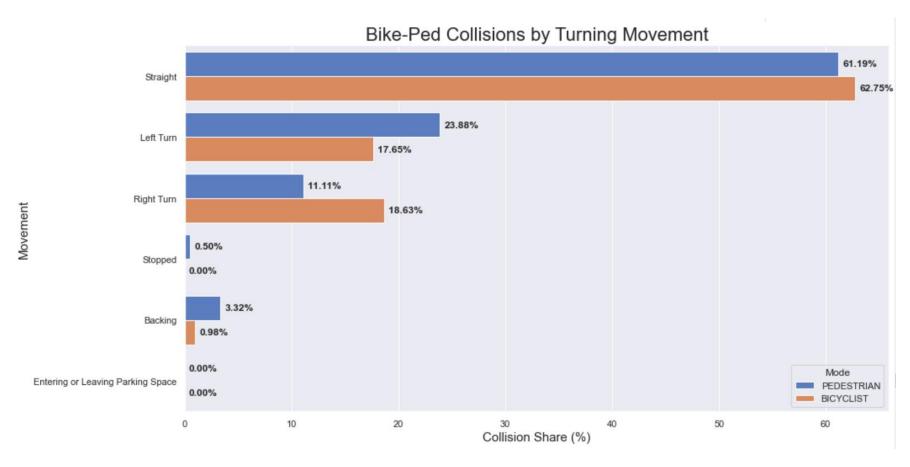
35% of KSI one vehicle collisions involved a pedestrian

Top hit objects = "other fixed object," "tree, shrub, landscaping," "fence," "median barrier"

Collisions by Driver Movement - All

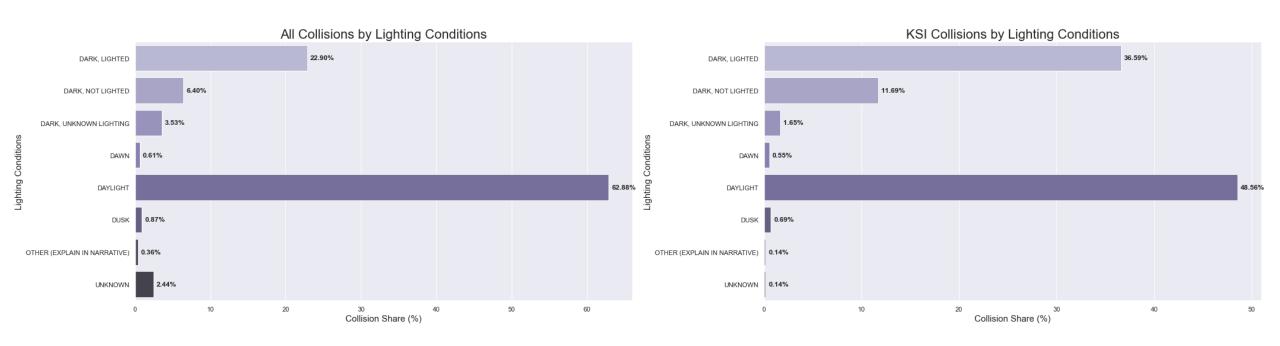


Collisions by Driver Movement – Bike & Ped

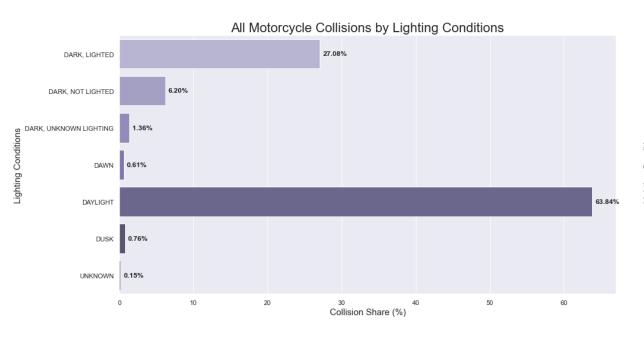


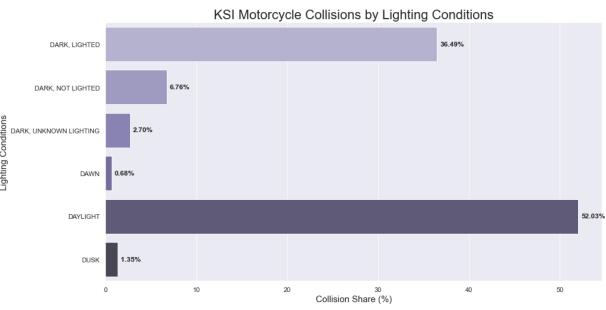
Driver left turns a factor in 24% of pedestrian collisions; driver left and right turns a factor in 18-19% each of bike collisions

Lighting Conditions - All

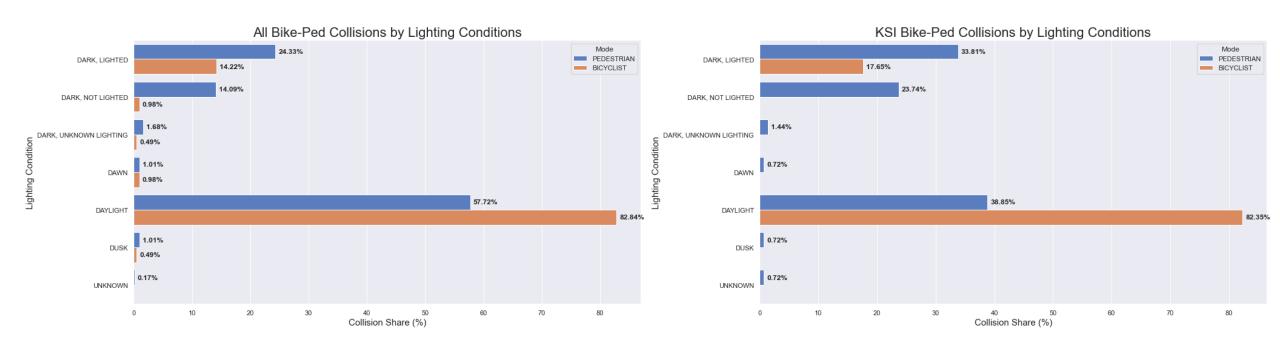


Lighting Conditions - Motorcycle

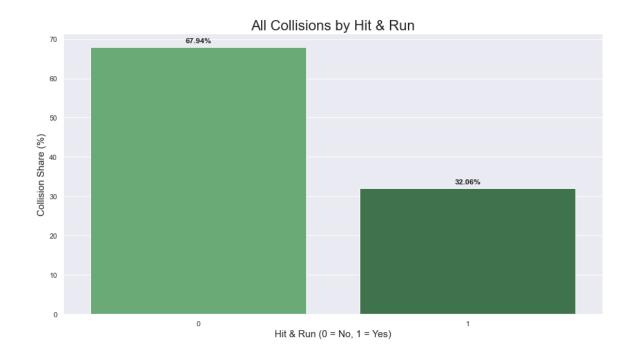


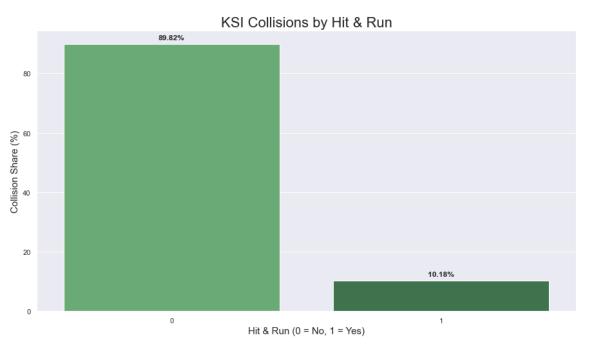


Lighting Conditions – Bike & Ped

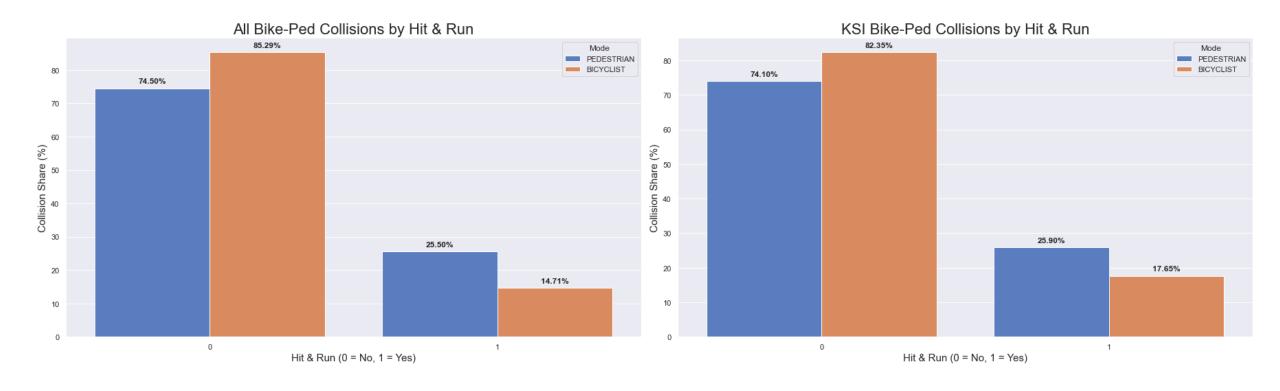


Hit & Run - All

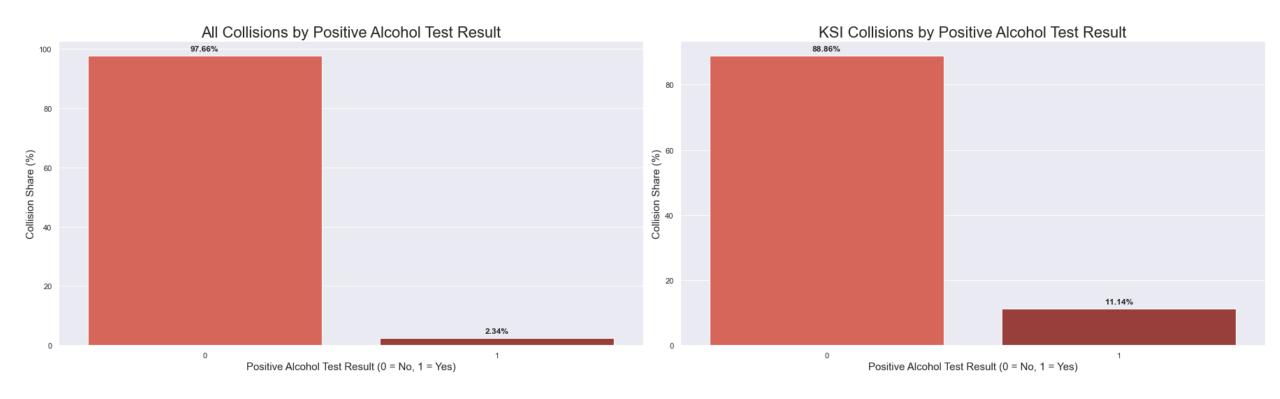




Hit & Run – Bike & Ped

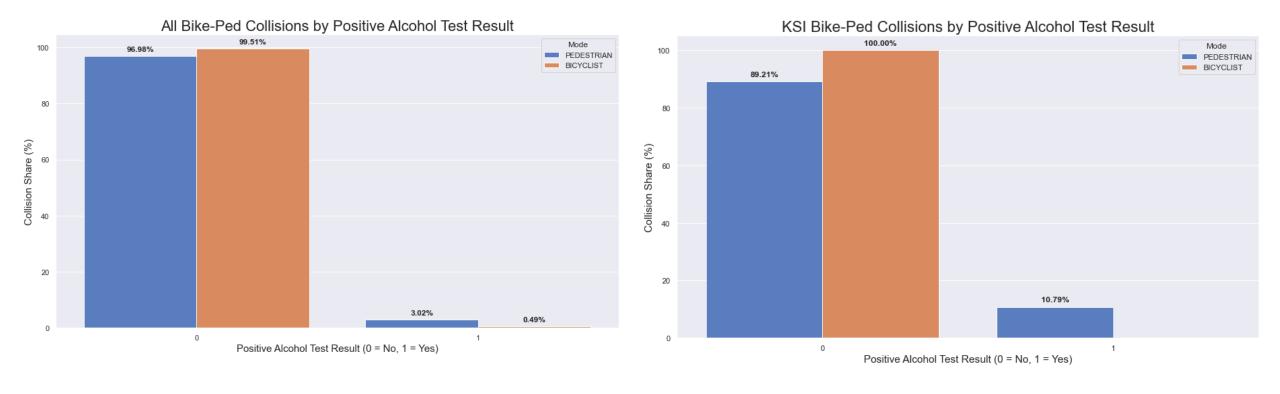


Positive Alcohol Test Result – All

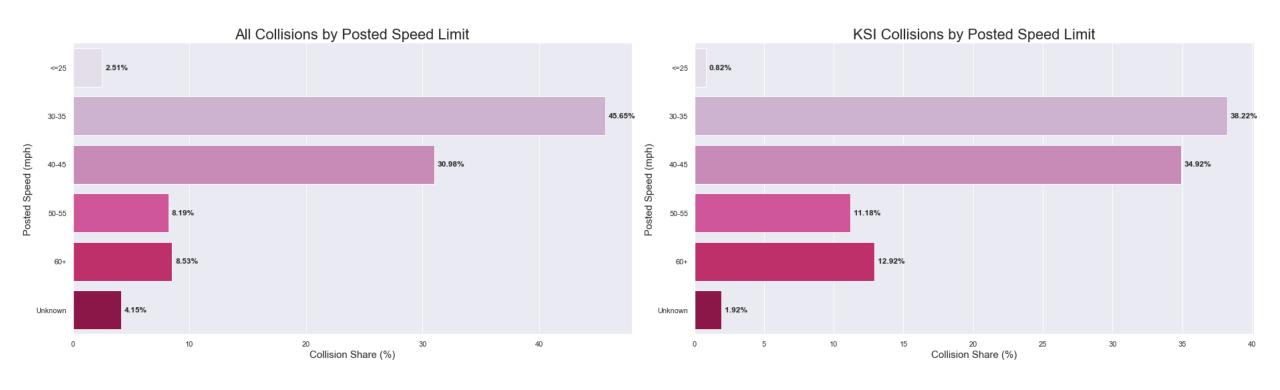


11% of KSI collisions include a positive alcohol test result, compared with 2% of injury collisions

Positive Alcohol Test Result – Bike & Ped

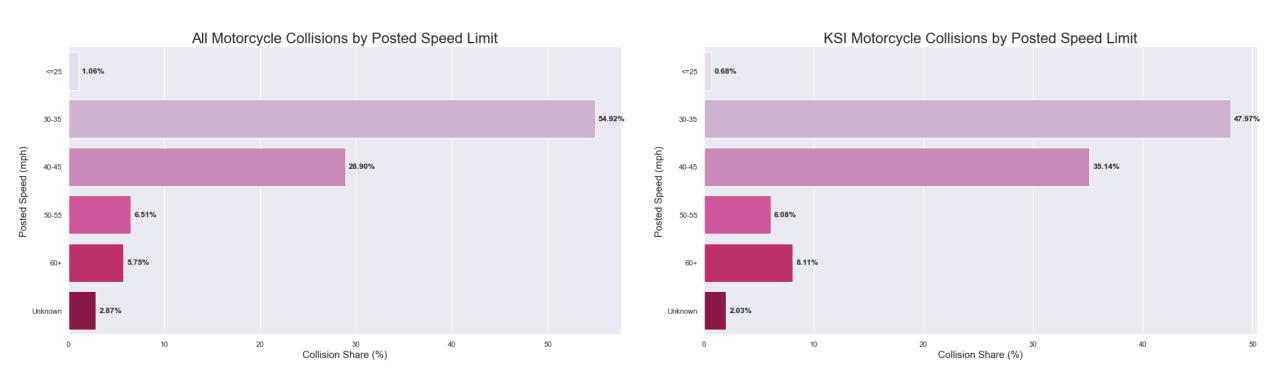


Posted Speed Limit - All

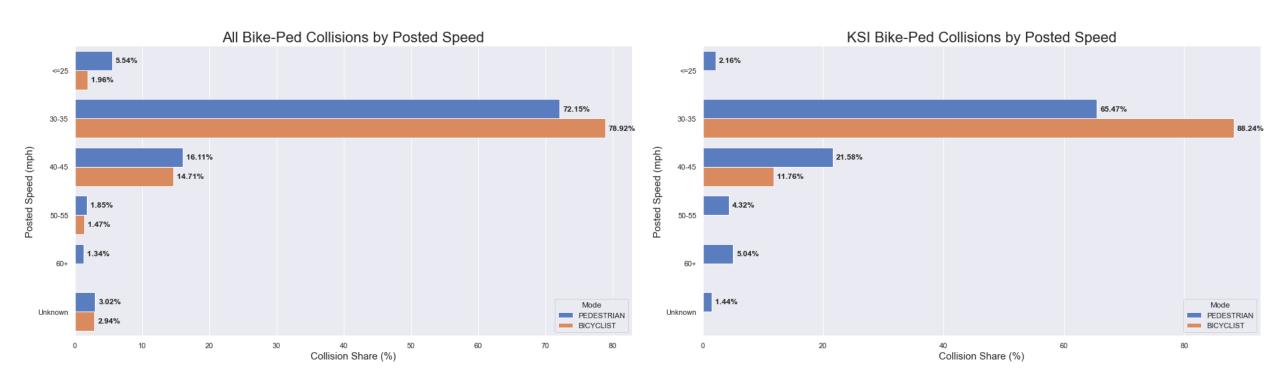


60% of KSI collisions occur on streets with posted speeds 40+ mph

Posted Speed Limit - Motorcycle

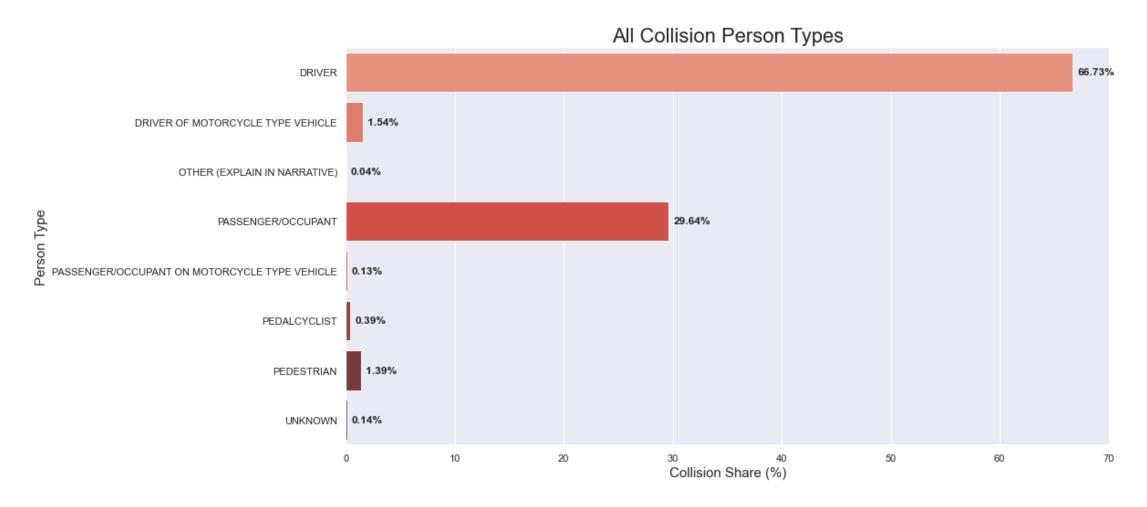


Posted Speed Limit – Bike & Ped

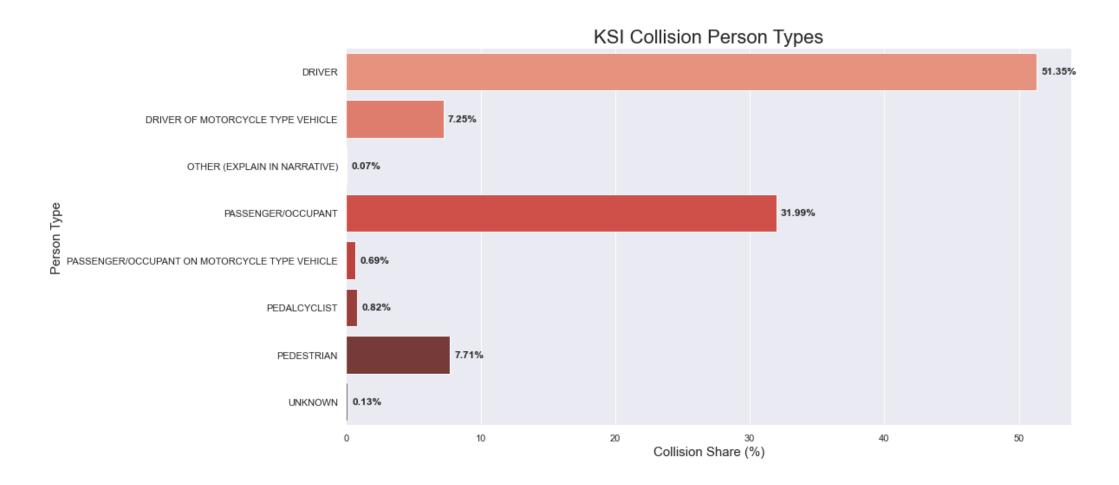


The majority of bike and ped collisions occur on streets with posted speed 30-35 mph

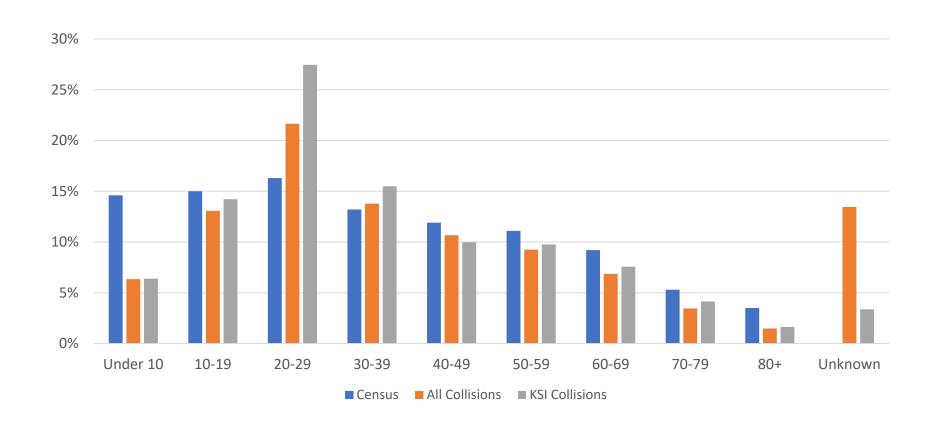
Person Type - All



Person Type - KSI

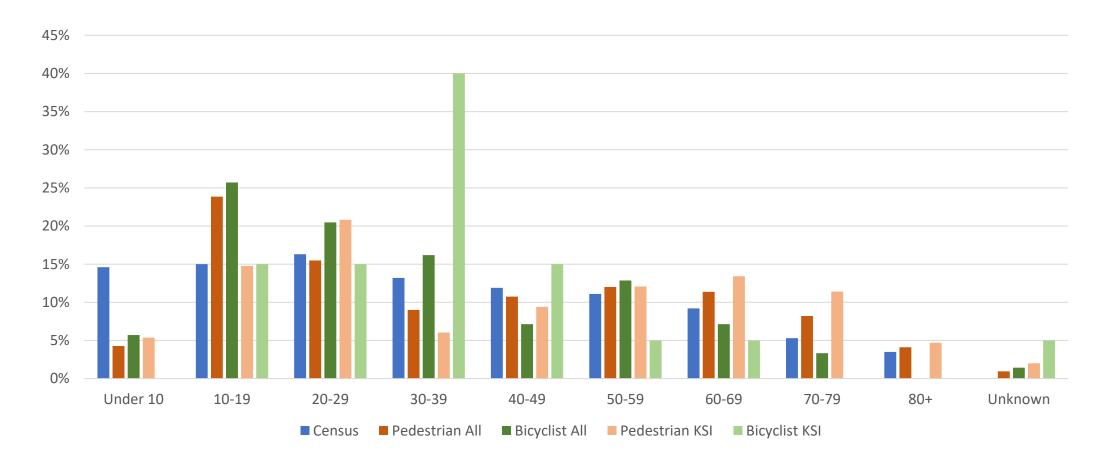


Age – All



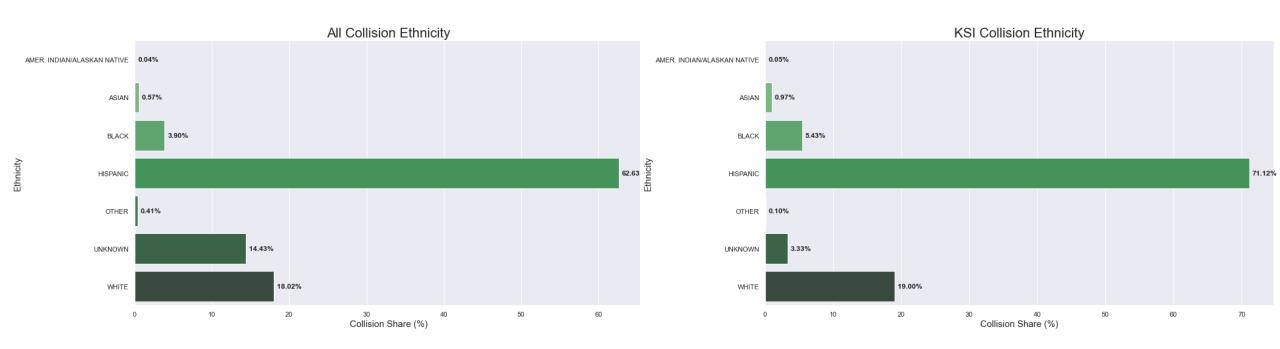
People age 20-29 are overrepresented in collisions and KSI collisions, compared to the census

Age – Bicyclists and Pedestrians



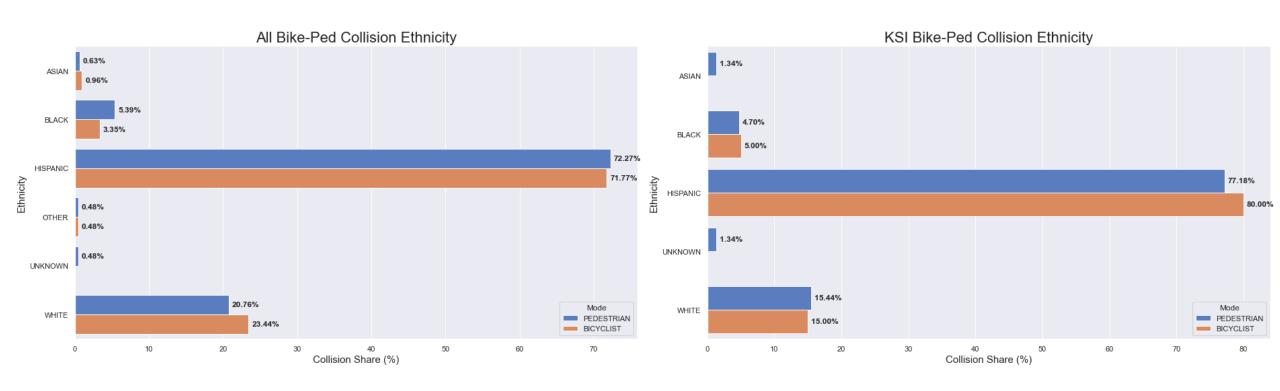
Bicyclists and pedestrians age 10-19 are overrepresented in collisions, compared to the census Note: Bicyclist KSI numbers are very small, skewing percentages shown here

Race & Ethnicity – All

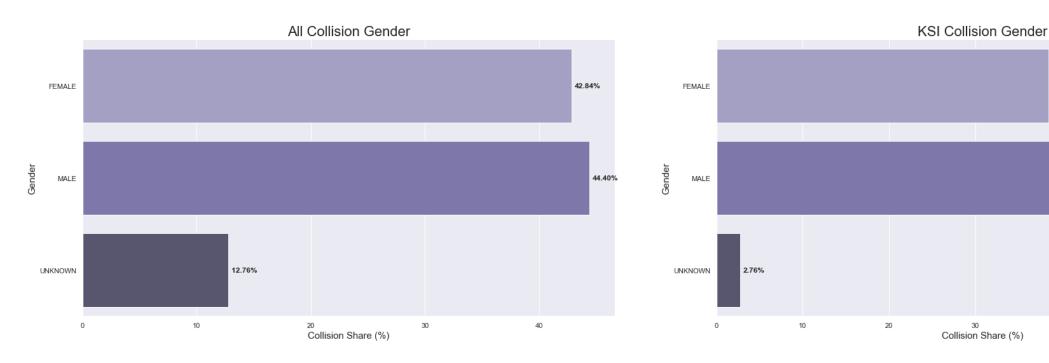


Black and white people are overrepresented in KSI collisions, compared to the census

Race & Ethnicity – Bicyclists and Pedestrians



Gender – All



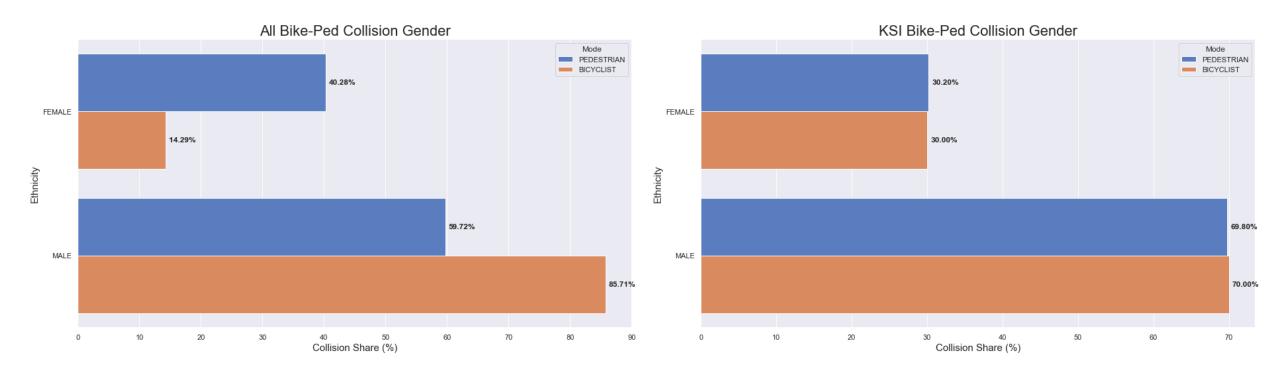
38.50%

58.74%

50

Men are overrepresented in KSI collisions, compared to the census

Gender – Bicyclists and Pedestrians



Vehicle Body Style – All Parties

VEH_BODY_STYL_ID	ALL_COUNT	ALL_SHARE	KSI_COUNT	KSI_SHARE
AMBULANCE	6	0.016879	0.000000	0.000000
BUS	125	0.351637	9.000000	0.629371
FARM EQUIPMENT	1	0.002813	0.000000	0.000000
FIRE TRUCK	8	0.022505	0.000000	0.000000
MOTORCYCLE	736	2.070440	171.000000	11.958042
NEV-NEIGHBORHOOD ELECTRIC VEHICLE	1	0.002813	0.000000	0.000000
OTHER (EXPLAIN IN NARRATIVE)	87	0.244740	3.000000	0.209790
PASSENGER CAR, 2-DOOR	2702	7.600990	126.000000	8.811189
PASSENGER CAR, 4-DOOR	15584	43.839316	582.000000	40.699301
PICKUP	4198	11.809384	159.000000	11.118881
POLICE CAR/TRUCK	32	0.090019	2.000000	0.139860
POLICE MOTORCYCLE	2	0.005626	0.000000	0.000000
SPORT UTILITY VEHICLE	5849	16.453809	211.000000	14.755245
TRUCK	884	2.486778	42.000000	2.937063
TRUCK TRACTOR	368	1.035220	29.000000	2.027972
UNKNOWN	3669	10.321256	45.000000	3.146853
VAN	1277	3.592326	51.000000	3.566434
YELLOW SCHOOL BUS	19	0.053449	0.000000	0.000000

Contributing Factor for Parties at Fault (top 10)

All Parties at Fault

CONTRIB_FACTR_1_ID	ALL_COUNT	ALL_SHARE	KSI_COUNT	KSI_SHARE
FAILED TO CONTROL SPEED	3367	24.706487	108	21.343874
OTHER (EXPLAIN IN NARRATIVE)	2577	18.909598	82	16.205534
DRIVER INATTENTION	1200	8.805401	38	7.509881
FAILED TO YIELD RIGHT OF WAY - TURNING LEFT	990	7.264456	30	5.928854
FAILED TO YIELD RIGHT OF WAY - STOP SIGN	805	5.906956	25	4.940711
DISREGARD STOP SIGN OR LIGHT	571	4.189903	23	4.545455
DISREGARD STOP AND GO SIGNAL	404	2.964485	12	2.371542
FAILED TO YIELD RIGHT OF WAY - PRIVATE DRIVE	401	2.942471	6	1.185771
CHANGED LANE WHEN UNSAFE	348	2.553566	7	1.383399
FAILED TO YIELD RIGHT OF WAY - OPEN INTERSECTION	303	2.223364	10	1.976285

Driver Parties at Fault in Bike & Ped Collisions

CONTRIB_FACTR_1_ID	ALL_COUNT	ALL_SHARE	KSI_COUNT	KSI_SHARE
FAILED TO YIELD RIGHT OF WAY - TO PEDESTRIAN	152	35.849057	11	16.417910
OTHER (EXPLAIN IN NARRATIVE)	70	16.509434	11	16.417910
DRIVER INATTENTION	62	14.622642	8	11.940299
FAILED TO CONTROL SPEED	20	4.716981	9	13.432836
PEDESTRIAN FAILED TO YIELD RIGHT OF WAY TO VEHICLE	16	3.773585	7	10.447761
FAILED TO YIELD RIGHT OF WAY - STOP SIGN	14	3.301887	0	0.000000
FAILED TO YIELD RIGHT OF WAY - TURNING LEFT	14	3.301887	1	1.492537
DISTRACTION IN VEHICLE	8	1.886792	2	2.985075
BACKED WITHOUT SAFETY	7	1.650943	1	1.492537
UNDER INFLUENCE - ALCOHOL	7	1.650943	4	5.970149

Top contributing factors for parties at fault are "Failed to Control Speed," "Driver Inattention," "Failed to Yield Right of Way – Turning Left"

Top contributing factor for drivers at fault in bike/ped collisions is "Failed to Yield Right of Way to Pedestrian"

Contributing Factor for Parties at Fault (top 10)

Bike & Ped Parties at Fault

CONTRIB_FACTR_1_ID	ALL_COUNT	ALL_SHARE	KSI_COUNT	KSI_SHARE
OTHER (EXPLAIN IN NARRATIVE)	112	35.55556	17	26.984127
PEDESTRIAN FAILED TO YIELD RIGHT OF WAY TO VEHICLE	103	32.698413	32	50.793651
DRIVER INATTENTION	12	3.809524	0	0.000000
WRONG SIDE - APPROACH OR INTERSECTION	10	3.174603	3	4.761905
DISREGARD STOP AND GO SIGNAL	8	2.539683	0	0.000000
FAILED TO YIELD RIGHT OF WAY - OPEN INTERSECTION	8	2.539683	2	3.174603
HAD BEEN DRINKING	7	2.222222	0	0.000000
DISREGARD STOP SIGN OR LIGHT	7	2.222222	2	3.174603
UNDER INFLUENCE - ALCOHOL	7	2.222222	2	3.174603
FAILED TO STOP AT PROPER PLACE	6	1.904762	1	1.587302