

1 Introduction

2 Literature Review

3 Data and Methods

4 Results

	Variable	Mean	SD	Min	Max
1	CarCrash	1.87	4.96	0.00	120.00
2	PedCrash	0.05	0.27	0.00	5.00
3	BikeCrash	0.02	0.15	0.00	3.00
4	TreeDen	33.24	23.76	0.00	99.96
5	TreeDenGSV	12.67	7.64	0.00	52.03
6	FunClass	0.82	0.38	0.00	1.00
7	SPDLimit	30.34	1.85	30.00	55.00
8	Med	0.01	0.08	0.00	1.00
9	Oneway	0.95	0.22	0.00	1.00
10	DVMT	2.65	6.84	0.00	62.37
11	TruckPct	3.51	1.88	0.00	42.92
12	PAge18	19.31	8.23	0.00	33.58
13	PAge65	11.21	4.51	0.00	32.10
14	PMale	14.67	5.17	0.00	24.18
15	PBlack	19.87	25.22	0.00	92.68
16	PHispanic	39.11	31.20	2.94	97.61
17	MHI	79.41	55.77	15.54	250.00
18	PPvt	19.86	13.36	0.00	60.60
19	PNoVeh	1.80	1.78	0.00	9.53
20	PEduBach	43.99	30.75	2.59	92.30
21	PRes	70.22	34.04	0.00	100.00
22	PCom	4.87	14.82	0.00	100.00
23	PInd	0.19	2.67	0.00	100.00
24	PedExpRaw	0.22	0.75	0.00	20.48
25	BikeExpRaw	0.37	1.80	0.00	94.94

Table 1: Descriptive Statistics

Variables	Car Crash		Ped Crash		Bike Crash	
	Mean	(2.5%,97.5%)	Mean	(2.5%,97.5%)	Mean	(2.5%,97.5%)
(Intercept)	0.5340	(-0.5882, 1.6666)	2.9200*	(1.5776, 4.3386)	-0.0121	(-1.9681, 2.0152)
TreeDen	-0.0090*	(-0.0103, -0.0078)	-0.0129*	(-0.0163, -0.0095)	-0.0060*	(-0.0111, -0.0011)
FunClass	-0.8148*	(-0.8998, -0.7225)	-0.8864*	(-1.0571, -0.7170)	-0.8703*	(-1.1252, -0.6088)
SPDLimit	0.0062	(-0.0049, 0.0178)	-0.0383*	(-0.0737, -0.0050)	-0.0304	(-0.0842, 0.0180)
Med	0.4305*	(0.1274, 0.7167)	-0.9433*	(-1.8407, -0.1719)	-1.9322*	(-4.1446, -0.6878)
Oneway	0.1357*	(0.0214, 0.2241)	-0.7389*	(-0.9208, -0.5510)	-0.1235	(-0.4319, 0.1964)
DVMT	0.0000*	(0.0000, 0.0000)	0.0000*	(0.0000, 0.0000)	0.0000*	(0.0000, 0.0000)
TruckPct	0.0256*	(0.0114, 0.0405)	-0.0171	(-0.0606, 0.0207)	0.0141	(-0.0408, 0.0593)
PAge18	-0.0456*	(-0.0641, -0.0144)	-0.0511*	(-0.0738, -0.0267)	-0.0334*	(-0.0667, -0.0009)
PAge65	0.0040	(-0.0269, 0.0232)	-0.0160	(-0.0401, 0.0079)	-0.0031	(-0.0386, 0.0319)
PMale	-0.0094	(-0.0477, 0.0292)	0.0246	(-0.0162, 0.0632)	-0.0070	(-0.0692, 0.0527)
PBlack	0.0017	(-0.0036, 0.0072)	-0.0163*	(-0.0247, -0.0084)	-0.0053	(-0.0175, 0.0057)
PHispanic	-0.0001	(-0.0095, 0.0090)	-0.0261*	(-0.0358, -0.0170)	-0.0188*	(-0.0333, -0.0057)
MHI	0.0000*	(0.0000, 0.0000)	0.0000*	(0.0000, 0.0000)	0.0000*	(0.0000, 0.0000)
PNoVeh	0.0168	(-0.0345, 0.0723)	0.0495	(-0.0138, 0.1087)	0.0185	(-0.0744, 0.1099)
PEduBach	0.0001	(-0.0108, 0.0092)	-0.0154*	(-0.0244, -0.0067)	0.0010	(-0.0130, 0.0148)
PRes	-0.0010*	(-0.0018, -0.0003)	-0.0032*	(-0.0051, -0.0014)	-0.0034*	(-0.0062, -0.0006)
PCom	-0.0010	(-0.0026, 0.0006)	-0.0022	(-0.0064, 0.0018)	-0.0060	(-0.0136, 0.0009)
PInd	-0.0035	(-0.0171, 0.0100)	0.0058	(-0.0185, 0.0229)	0.0000	(-0.0417, 0.0257)
PedExpRaw	0.0000	(0.0000, 0.0001)	0.0001*	(0.0001, 0.0002)	0.0001	(0.0000, 0.0001)
BikeExpRaw	0.0000	(0.0000, 0.0001)	0.0000*	(0.0000, 0.0000)	0.0000*	(0.0000, 0.0000)

Table 2: Multivariate Bayes CAR Model Results for Tree Density Derived from Aerial Imagery

5 Discussion

6 Conclusion