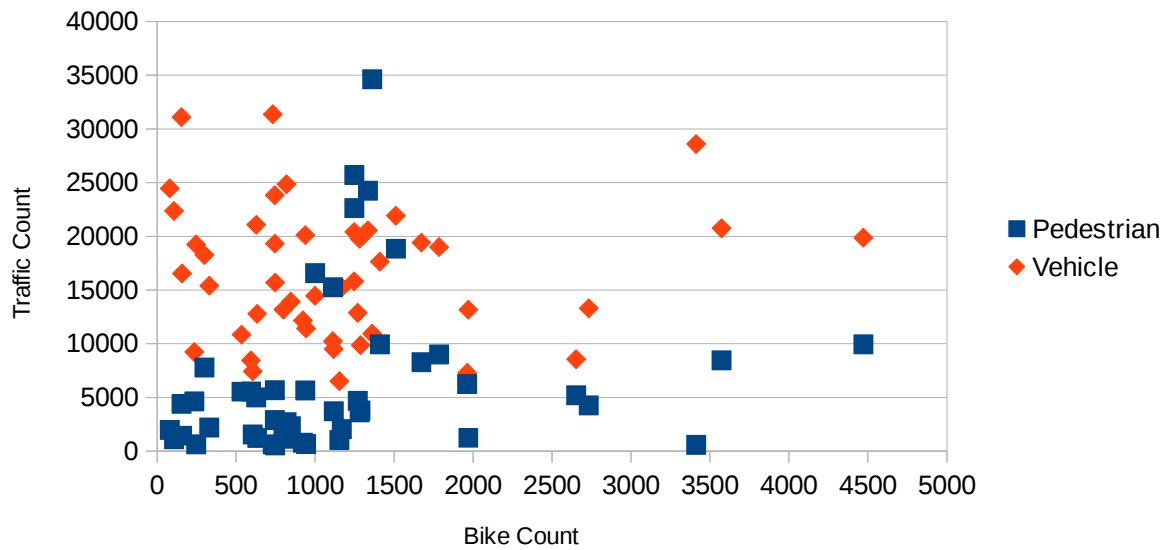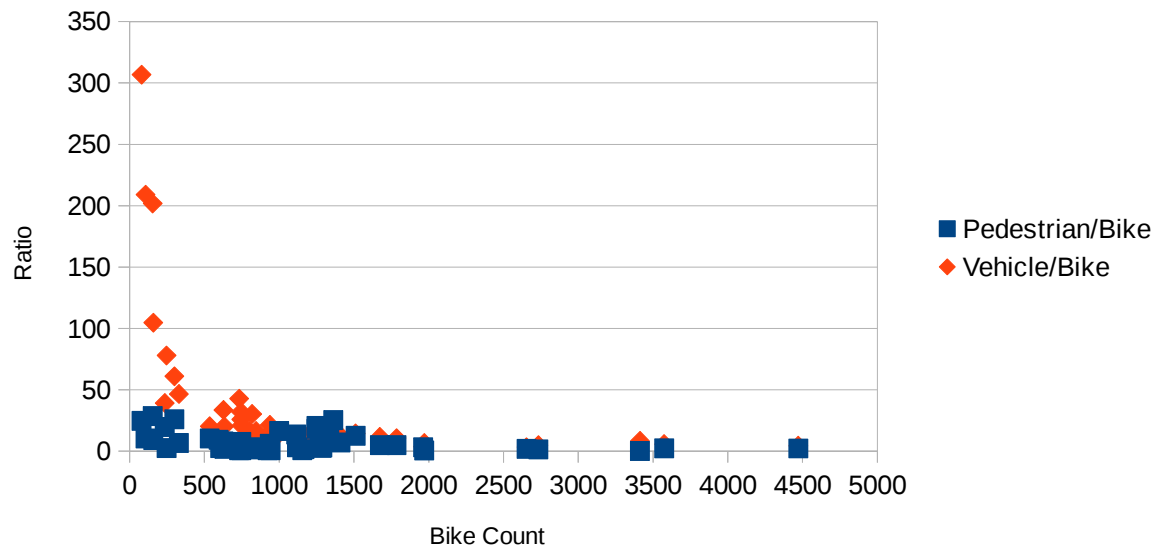Traffic stats manually pulled from Toronto Open Data sheets

| intersection	GPS coordinates	Bike	Pedestrian	Vehicle	Pedestrian/Bike
Dundas & Carlaw	43.664827,-79.341596	1970	1241	13161	0.6299492386
Dupont & Edwin	43.664868,-79.455487	943	652	11426	0.6914103924
Dundas & Sterling	43.650653,-79.443035	923	782	12167	0.8472372698
Lakeshore and Logan	43.654147,-79.339802	732	624	31363	0.8524590164
Adelaide & Brant	43.646213,-79.398131	1154	1038	6505	0.8994800693
Annete and keele	43.663667,-79.463784	747.17	530	15688	0.7093432552
Sherbourne & Wellesley	43.667068,-79.374654	2733	4262	13302	1.5594584705
Sherbourne & Gerard	43.661228,-79.372219	1169	2040	15254	1.745081266
Dupont & Campbell	43.665976,-79.450032	633	1223	12774	1.9320695103
Harbord & Huron	43.663502,-79.40005	2653	5206	8554	1.9623068225
College & Spadina	43.657946,-79.39993	4471	9936	19872	2.2223216283
Harbord & Spadina	43.663051,-79.402196	3574	8445	20747	2.3628987129
Shaw & Harbord	43.659032,-79.42188	605.5	1545	7429	2.5516102395
Eglington & Eden valley	43.681104,-79.532859	246.8	639	19243	2.5891410049
Bay & Davenport	43.673088,-79.390792	846	2309	13905	2.7293144208
Queen & Jarvis	43.653704,-79.373238	1282	3622	19772	2.8252730109
Sherbourne & Shuter	43.656174,-79.370092	1288	3786	9862	2.9394409938
Simcoe & Adelaide	43.648636,-79.38656	1963	6248	7279	3.1828833418
Richmond & Jarvis	43.653023,-79.372952	819	2696	24842	3.2918192918
Adelaide & duncan	43.648193,-79.388647	1118	3714	9502	3.3220035778
Wellesley & Parliament	43.668167,-79.369543	1270	4674	12878	3.6803149606
Front & Spadina	43.642711,-79.394043	745	2884	23826	3.8711409396
Spadina and Adelaide	43.646762,-79.395427	1785	9000	19000	5.0420168067
Jarvis & Dundas	43.657052,-79.374531	938	5651	20116	6.0245202559
Esplanade & Lower Jarvis	43.648208,-79.370923	330	2209	15391	6.6939393939
Dundas & Spadina	43.652908,-79.39815	1410	9939	17631	7.0489361702
Adelaide & jarvis	43.651534,-79.37236	746	5679	19307	7.6126005362
Jarvis & wellesley	43.666289,-79.378325	627	5001	21072	7.976076555
Bloor & Castle Frank	43.673792,-79.368187	3413	590	28597	0.1728684442
Rogers & Caledonia	43.683087,-79.458019	158	1438	16541	9.1012658228
Pharmacy & st.clair	43.709856,-79.290964	107	1105	22362	10.3271028037
Dundas & Beverley	43.653812,-79.393829	535	5537	10847	10.3495327103
King and Spadina	43.645442,-79.395119	1511	18848	21916	12.4738583719
John & King	43.646578,-79.389725	1113	15252	10235	13.7035040431
Bay & Cumberland	43.670571,-79.389833	594	5549	8445	9.3417508418
Wellesley & Yonge	43.664932,-79.384556	1000	16557	14459	16.557
Bloor & Bay	43.669716,-79.389477	1334	24246	20546	18.1754122939
York & Queens Quay	43.640093,-79.380152	235	4629	9230	19.6978723404
Bloor & Yonge	43.670226,-79.386759	1248	25696	15800	20.5897435897
Lansdowne and Davenport	43.671556,-79.448262	800	1151	13178	1.43875
Richmond & spadina	43.647864,-79.396115	1673	8282	19406	4.9503885236
Royal York and Queensway	43.626316,-79.502596	79.75	1965	24470	24.6394984326
Dundas and yonge	43.655704,-79.380644	1361	34615	10925	25.4335047759
Church & Bloor	43.67102,-79.383128	1248	22634	20404	18.1362179487
Bay & Harbour	43.642067,-79.377417	299	7776	18261	26.0066889632
Spadina & Bremner	43.640625,-79.3932	154	4393	31087	28.525974026
St George & Bloor		2092	11938	13146	==5.706500956==

Pedestrian and vehicle traffic against bike counts

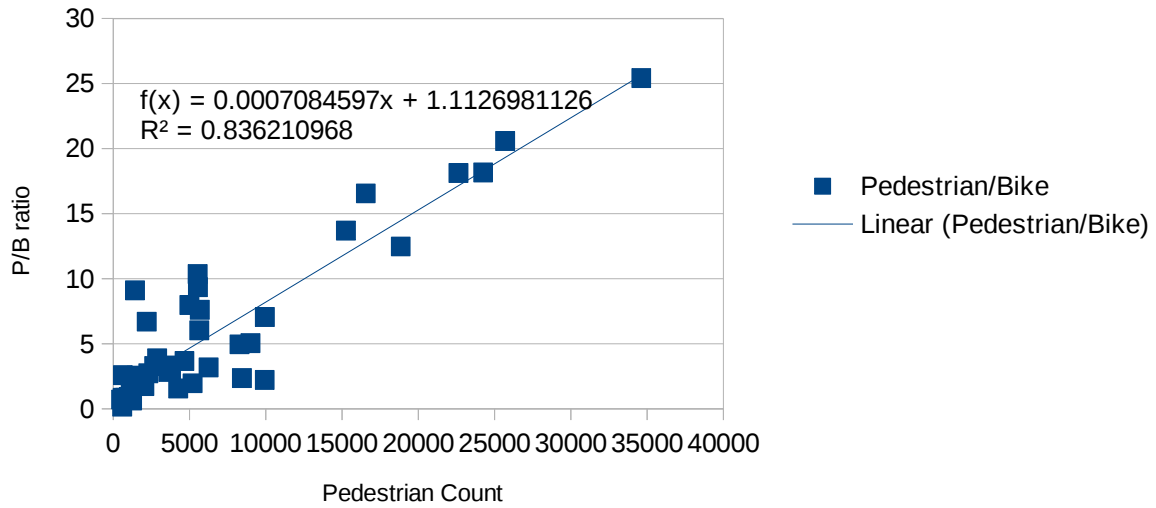## Ratio versus Bike count

Traffic Ratrio versus Pedestrian Count

$f(x) = 0.000627667x + 3.5967732878$
$R^2 = 0.3642116208$

- ■ Pedestrian/Bike
- —— Linear (Pedestrian/Bike)
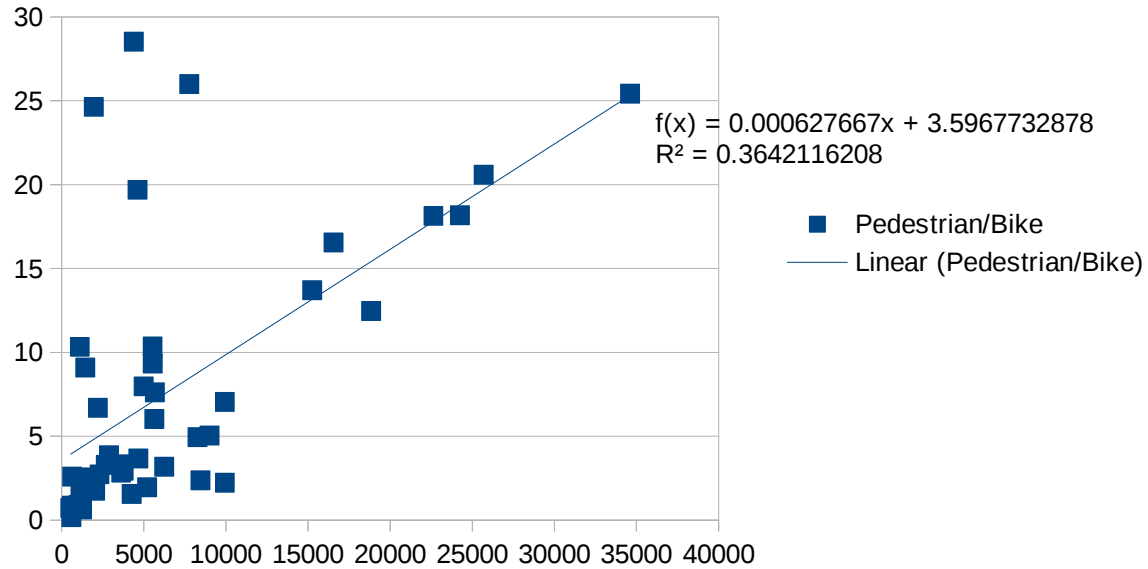
Filtered traffic ratio versus pedestrian counts

$f(x) = 0.0007709006x$
$R^2 = 0.9025679944$

- ■ Pedestrian/Bike
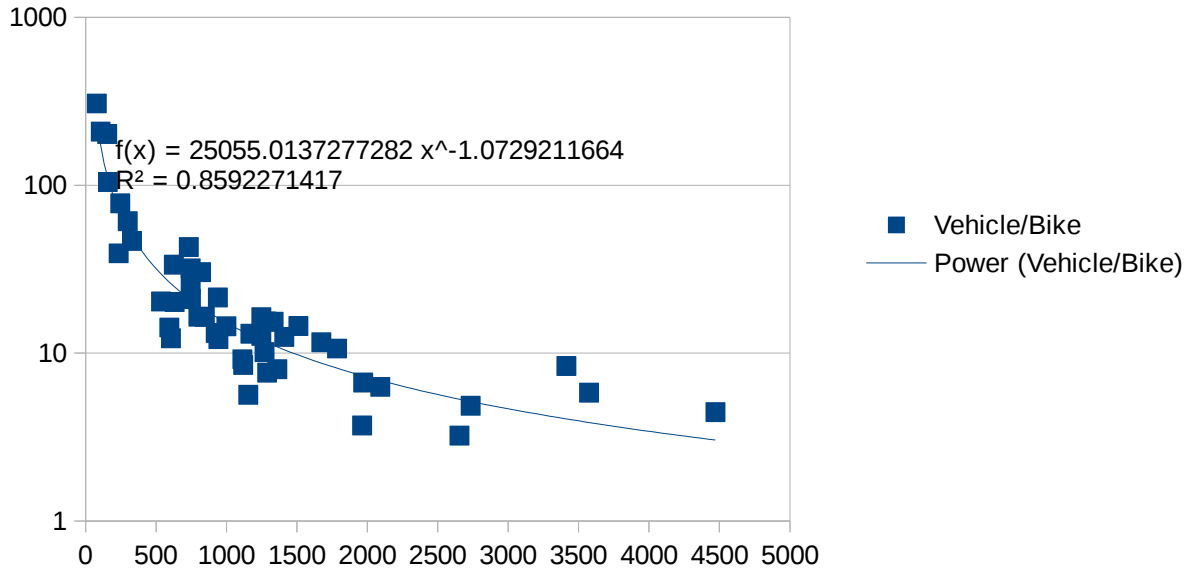- —— Linear (Pedestrian/Bike)
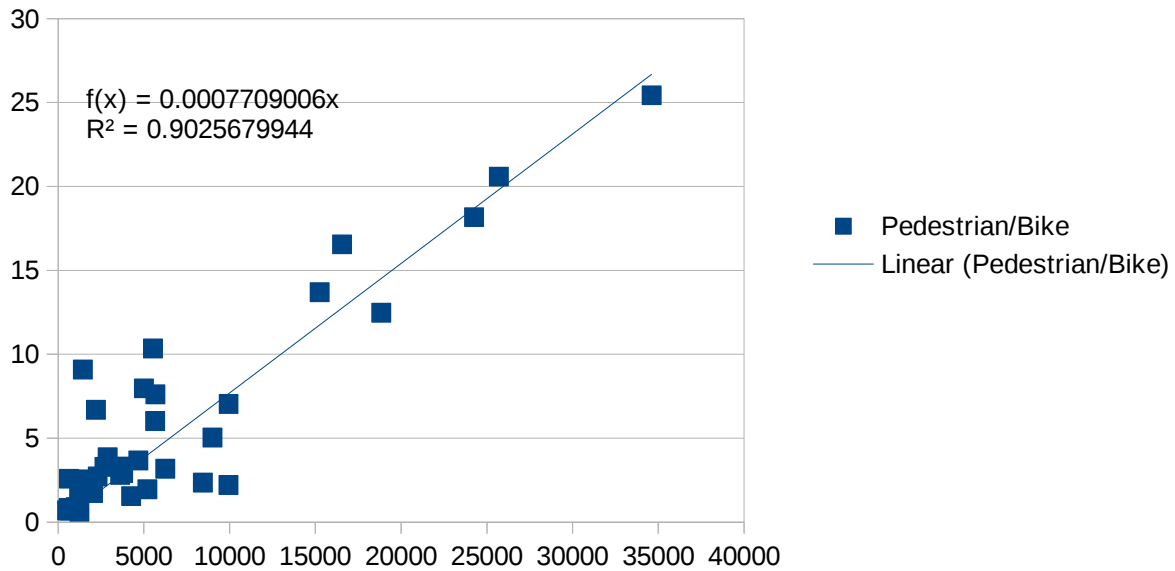
Traffic stats manually pulled from Toronto Open Data sheets

Vehicle/Bike	Bike/Pedestrian	P prediction old	P prediction	V-prediction	Bike/Vehicle Ratio
6.6807106599	1.587429492	0.9842389615	1.9918966		0.149684674
12.1166489926	1.446319018	0.517102178	1.574613837		0.082531069
13.1820151679	1.180306905	0.620205373	1.666713598		0.075860935
42.8456284153	1.173076923	0.494895336	1.554776965		0.023339604
5.636915078	1.111753372	0.823239357	1.848079281		0.177401998
20.9965603544	1.409754717	0.420343795	1.488181754		0.047626849
4.8671789243	0.64124824	3.380198593	4.132153354		0.205457826
13.0487596236	0.573039216	1.61792706	2.557955901		0.076635637
20.1800947867	0.517579722	0.9699631345	1.979144326		0.049553781
3.2242744063	0.509604303	4.128886409	4.800939311		0.3101473
4.4446432565	0.449979871	7.880256504	8.151953692		0.224989936
5.8049804141	0.423208999	6.6977421675	7.095640279		0.17226587
12.2691990091	0.391909385	1.2253418175	2.207268349		0.081504913
77.9700162075	0.386228482	0.5067918585	1.565403861		0.012825443
16.4361702128	0.366392378	1.8312713635	2.74853156		0.060841424
15.4227769111	0.353948095	2.872613633	3.678739146		0.064839166
7.6568322981	0.34020074	3.002682279	3.794926537		0.130602312
3.7080998472	0.314180538	4.955298172	5.539154318		0.269679901
30.3321123321	0.303783383	2.138201644	3.022705464		0.03296836
8.4991055456	0.301023156	2.945578971	3.743917438		0.11765944
10.1401574803	0.271715875	3.706956411	4.42403875		0.098617798
31.9812080537	0.258321775	2.287304726	3.155895887		0.031268362
10.6442577031	0.198333333	7.1379135	7.488835413		0.093947368
21.4456289979	0.165988321	4.4818165765	5.116203877		0.046629549
46.6393939394	0.149388864	1.7519612135	2.67768559		0.021441102
12.5042553191	0.141865379	7.8826358085	8.154079071		0.079972775
25.8806970509	0.131361155	4.5040234185	5.136040749		0.038638836
33.6076555024	0.125374925	3.9663006015	4.655705072		0.029755125
8.3788455904	5.784745763	0.467929885	1.530689336		0.119348183
104.6898734177	0.109874826	1.140479957	2.131463161		0.009552022
208.9906542056	0.096832579	0.8763771575	1.895546081		0.004784903
20.2747663551	0.09662272	4.3914030055	5.035439472		0.049322393
14.5043017869	0.080167657	14.948377072	14.46574654		0.068945063
9.1958670261	0.072974036	12.096384078	11.91812546		0.108744504
14.2171717172	0.107046315	4.4009202235	5.043940988		0.070337478
14.459	0.060397415	13.1313815355	12.84266537		0.069161076
15.4017991004	0.055019385	19.229538969	18.290012		0.06492748
39.2765957447	0.050766904	3.6712668435	4.392158064		0.025460455
12.6602564103	0.04856787	20.379536144	19.31727856		0.078987342
16.4725	0.695047785	0.9128598265	1.928135227		0.060707239
11.5995218171	0.202004347	6.568466623	6.980161348		0.08621045
306.8338557994	0.040585242	1.5584444475	2.504821423		0.003259093
8.0271858927	0.039318215	27.4532084225	25.63603063		0.124576659
16.3493589744	0.055138288	17.951059351	17.14797496		0.061164478
61.0735785953	0.038451646	6.167157264	6.62168074		0.016373693
201.8636363636	0.035055771	3.4840948895	4.224961575		0.004953839
6.2839388145	0.175238733	9.468045707	9.570290011		0.159135859

P/B traffic ratio versus pedestrian count (filtered)

$f(x) = 0.0007084597x + 1.1126981126$
$R^2 = 0.836210968$

- Pedestrian/Bike
- Linear (Pedestrian/Bike)

Y-axis: P/B ratio

X-axis: Pedestrian Count

Vehicle/Bike Ratio versus bike count

$f(x) = 25055.0137277282 \, x^{-1.0729211664}$
$R^2 = 0.8592271417$

- Vehicle/Bike
- Power (Vehicle/Bike)

intersection	GPS coordinates	Bike	Pedestrian	Vehicle
Adelaide & Brant	43.646213,-79.398131	1363	1038	6505
Adelaide & duncan	43.648193,-79.388647	1367	3714	9502
Adelaide & jarvis	43.651534,-79.37236	1444	5679	19307
Annete and keele	43.663667,-79.463784	816	530	15688
Bay & Cumberland	43.670571,-79.389833	594	5549	8445
Bay & Davenport	43.673088,-79.390792	459	2309	13905
Bloor & Bay	43.669716,-79.389477	1334	24246	20546
Bloor & Castle Frank	43.673792,-79.368187	3413	1144	28597
Bloor & Yonge	43.670226,-79.386759	1248	25696	15800
Church & Bloor	43.67102,-79.383128	1248	22634	20404
College & Spadina	43.657946,-79.39993	4495.8	9936	19872
Dundas & Beverley	43.653812,-79.393829	1070	5537	10847
Dundas & Carlaw	43.664827,-79.341596	1970	1241	13161
Dundas & Spadina	43.652908,-79.39815	1410	9939	17631
Dundas & Sterling	43.650653,-79.443035	1240	782	12167
Dundas and yonge	43.655704,-79.380644	1361	34615	10925
Dupont & Campbell	43.665976,-79.450032	1041	1223	12774
Dupont & Edwin	43.664868,-79.455487	1185	856	11426
Eglington & Eden valley	43.681104,-79.532859	323	1278	19243
Esplanade & Lower Jarvis	43.648208,-79.370923	330	2209	15391
Front & Spadina	43.642711,-79.394043	745	2884	23826
Harbord & Huron	43.663502,-79.40005	2653	5206	8554
Harbord & Spadina	43.663051,-79.402196	3574	8445	20747
Jarvis & Dundas	43.657052,-79.374531	1315	5651	20116
Jarvis & wellesley	43.666289,-79.378325	2240	5001	21072
Jarvis & Isabella	43.668869,-79.379416	456	1679	15958
Jarvis & Queen	43.653704,-79.373238	1282	3622	19772
John & King	43.646578,-79.389725	851	15252	10235
John & Queen	43.649865,-79.39103	1486	20656	9855
King and Spadina	43.645442,-79.395119	1511	18848	21916
Lakeshore and Logan	43.654147,-79.339802	1049	624	31363
Lansdowne and Davenport	43.671556,-79.448262	800	1151	13178
Pharmacy & st.clair	43.709856,-79.290964	125	1105	22362
Rees St and Lakeshore Bld	43.639944,-79.387032	128	1379	18286
Richmond & Jarvis	43.653023,-79.372952	1043	2696	24842
Richmond & spadina	43.647864,-79.396115	1828	8282	19406
Richmond & Adelaide	43.649581,-79.383076	1785	9395	18285
Rogers & Caledonia	43.683087,-79.458019	158	1438	16541
Royal York and Queensway	43.626316,-79.502596	79.75	1965	24470
Shaw & Harbord	43.659032,-79.42188	605.5	1545	7429
Sherbourne & Gerard	43.661228,-79.372219	1169	2040	15254
Sherbourne & Shuter	43.656174,-79.370092	1288	3786	9862
Sherbourne & Wellesley	43.667068,-79.374654	2733	4262	13302
Simcoe & Adelaide	43.648636,-79.38656	1963	6248	7279
Spadina & Bremner	43.640625,-79.3932	154	4393	31087
Spadina and Adelaide	43.646762,-79.395427	1785	9000	19000
Wellesley & Parliament	43.668167,-79.369543	1270	4674	12878
Wellesley & Yonge	43.664932,-79.384556	1060	16557	14459

	alpha			
York & Queens Quay	43.640093,-79.380152	235	4629	9230
St George & Sussex	43.665429,-79.398975	2304	8076	13146

B/P filtered versus pedestrian

f(x) = 500.2146
R² = 0.8822359
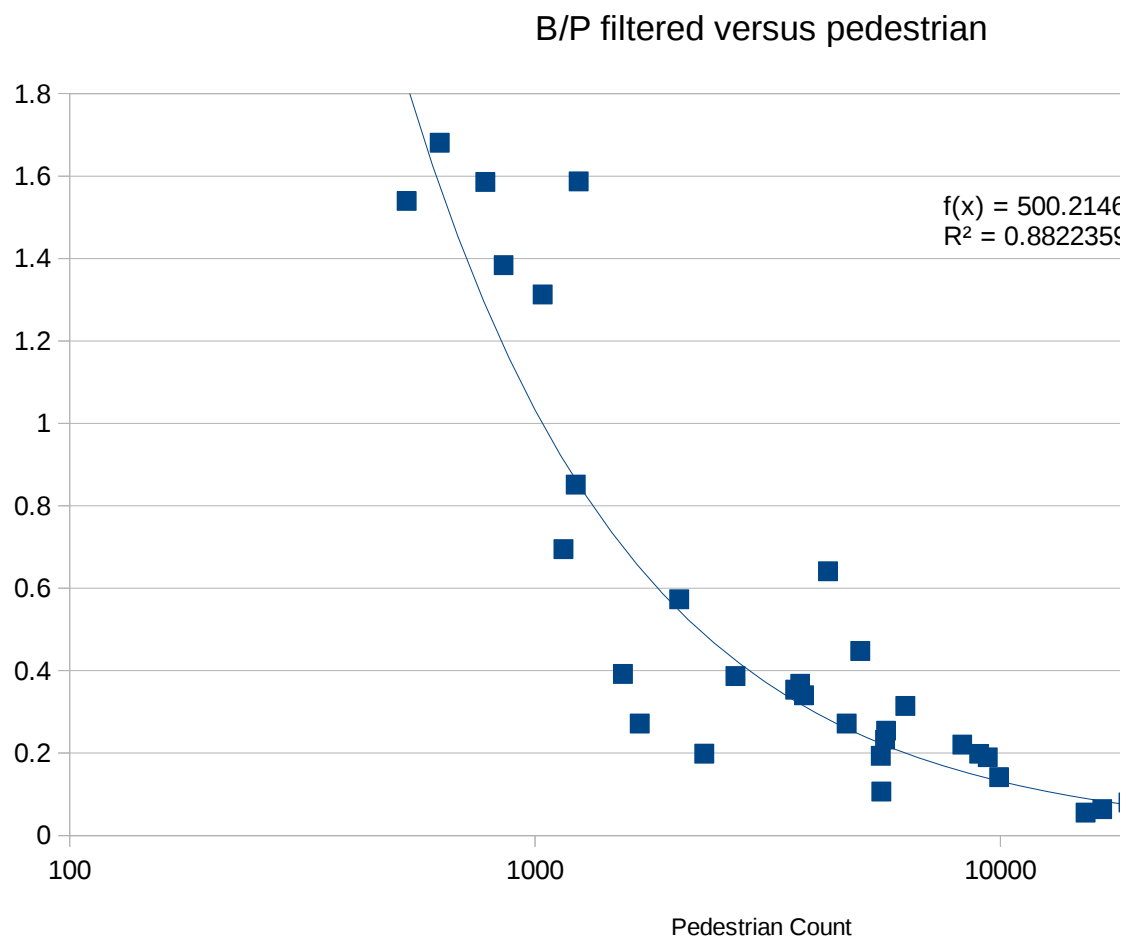
Pedestrian Count

Filtered P/B ratio versus pedestrian count

$f(x) = 0.0007716193x$
$R^2 = 0.9594498748$

■ Pedestrian/Bike

—— Linear (Pedestrian/B

P/B ratio versus pedestrian count

$f(x) = 0.0006111841x + 2.929912$
$R^2 = 0.399547671$

■ Pedestrian/Bike

—— Linear (Pedestrian/B
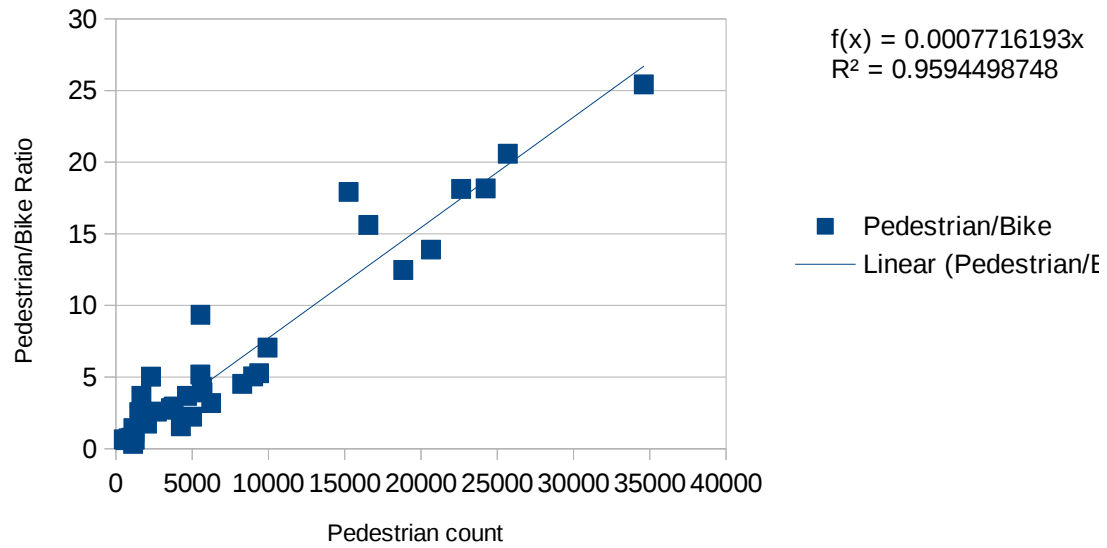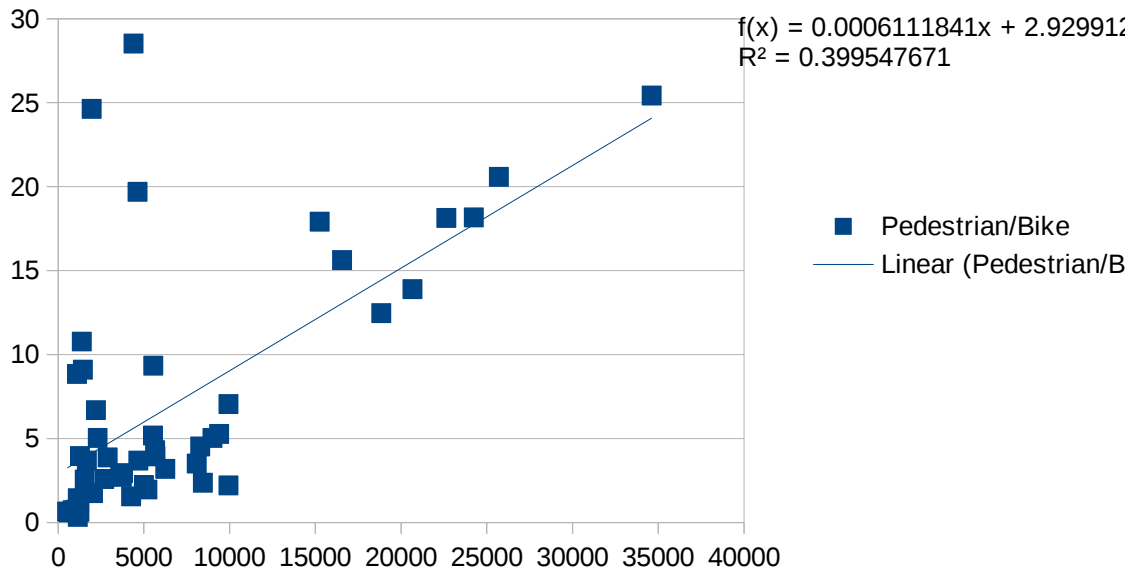
alpha

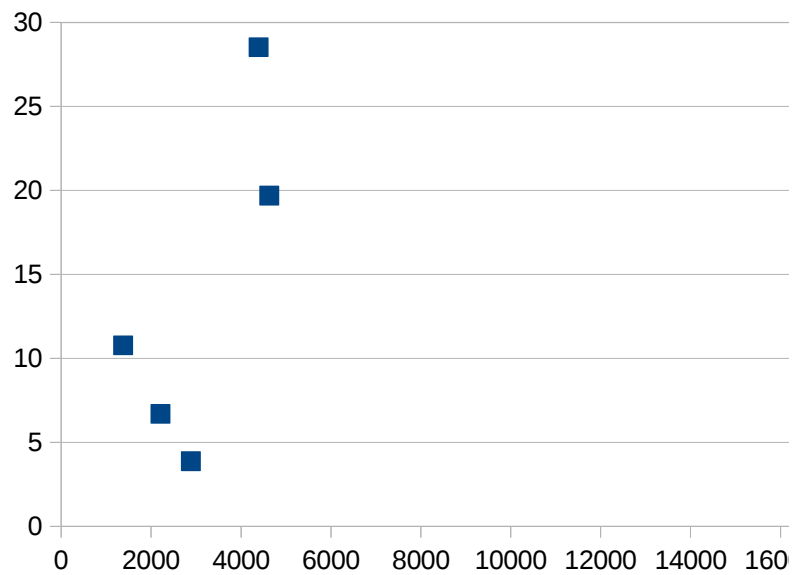| Bike/Pedestrian	Pedestrian/Bike	Vehicle/Bike	model predict	Bike prediction
1.3131021195	0.7615553925	4.772560528	0.99868998	1036.640198936
0.3680667744	2.7168983175	6.950987564	0.319063239	1185.0008684981
0.254270118	3.9328254848	13.37049861	0.21817146	1238.9957201289
1.5396226415	0.6495098039	19.2254902	1.822731062	966.0474631246
0.1070463147	9.3417508418	14.21717172	0.222740836	1235.9888985909
0.1987873538	5.0305010893	30.29411765	0.488243566	1127.3543932246
0.0550193846	18.1754122939	15.4017991	0.059507333	1442.8147983565
2.9833916084	0.3351889833	8.37884559	0.915446196	1047.270447967
0.0485678705	20.5897435897	12.66025641	0.056492633	1451.6347008745
0.0551382875	18.1362179487	16.34935897	0.063286966	1432.4371794222
0.4524758454	2.2100627252	4.42012545	0.132235615	1313.893071744
0.1932454398	5.1747663551	10.13738318	0.223172869	1235.7081763712
1.5874294923	0.6299492386	6.68071066	0.851129585	1056.2518153315
0.1418653788	7.0489361702	12.50425532	0.132199888	1313.9346902056
1.5856777494	0.6306451613	9.812096774	1.286816504	1006.290505818
0.0393182146	25.4335047759	8.027185893	0.043268322	1497.7329610476
0.8511856092	1.1748318924	12.27089337	0.862333453	1054.6338129695
1.3843457944	0.7223628692	9.642194093	1.186778484	1015.882382269
0.2527386541	3.9566563467	59.57585139	0.829039738	1059.5127853125
0.1493888637	6.6939393939	46.63939394	0.507980737	1122.1294471636
0.2583217753	3.8711409396	31.98120805	0.400127001	1153.9662706868
0.5096043027	1.9623068225	3.224274406	0.235832091	1227.7418672966
0.4232089994	2.3628987129	5.804980414	0.152950704	1291.6686937706
0.2327021766	4.297338403	15.2973384	0.219138797	1238.3533413206
0.4479104179	2.2325892857	9.407142857	0.244466621	1222.5775701927
0.2715902323	3.6820175439	34.99561404	0.649368304	1090.2893816497
0.353948095	2.8252730109	19772	0.326307636	1181.8862591909
0.0557959612	17.9224441833	12.02702703	0.090107551	1374.3203674133
0.0719403563	13.9004037685	6.631897712	0.068685062	1418.7586337163
0.080167657	12.4738583719	14.50430179	0.074553711	1405.1883457229
1.6810897436	0.5948522402	29.89799809	1.57490334	982.7396843093
0.6950477845	1.43875	16.4725	0.910461321	1047.940980019
0.1131221719	8.84	178.896	0.944313115	1043.4659924967
0.0928208847	10.7734375	142.859375	0.774475948	1068.00233173
0.3868694362	2.5848513902	23.81783317	0.425012338	1145.8332620091
0.2207196329	4.5306345733	10.61597374	0.155642352	1289.0299607917
0.189994678	5.2633053221	10.24369748	0.139031123	1306.1974021882
0.1098748261	9.1012658228	104.6898734	0.745971727	1072.7073439779
0.0405852417	24.6394984326	306.8338558	0.5640879	1108.432723588
0.3919093851	2.5516102395	12.26919901	0.699557167	1080.8158228976
0.5730392157	1.745081266	13.04875962	0.545489047	1112.7976564618
0.3402007396	2.9394409938	7.656832298	0.313626672	1187.3905817088
0.6412482403	1.5594584705	4.867178924	0.282082858	1202.2371414041
0.3141805378	3.1828833418	3.708099847	0.200299514	1251.4713657343
0.0350557705	28.525974026	201.8636364	0.274541785	1206.0620624425
0.1983333333	5.0420168067	10.6442577	0.14448043	1300.3238665026
0.2717158751	3.6803149606	10.14015748	0.259720536	1213.9337872026
0.0640212599	15.6198113208	13.64056604	0.083723502	1386.2100205828

0.0507669043	19.6978723404	39.27659574		0.2619793	1212.7021792657	
0.2852897474	3.5052083333	5.705729167		0.15919116	1285.6278046754	

UofT Campus P/B vs pedes

6799711 x^-0.8950759596
9527

Pedestrian/Bike Ratio (y-axis: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4)

Pedestrian Count (x-axis: 4000, 5000, 6000, 7000, 8000, 90)

100000
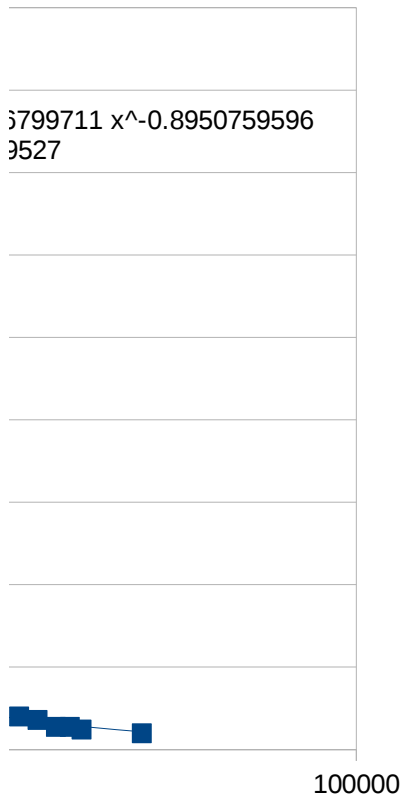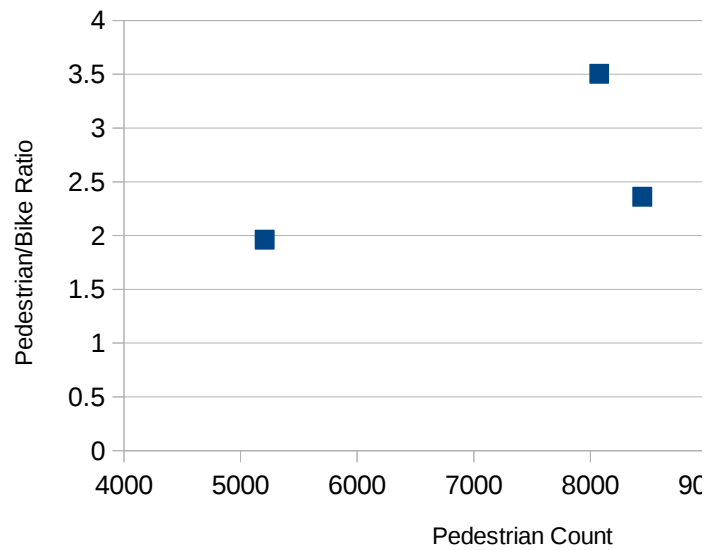
Waterfront P/B vs pedestrian

(y-axis: 0, 5, 10, 15, 20, 25, 30)

(x-axis: 0, 2000, 4000, 6000, 8000, 10000, 12000, 14000, 160)

alpha

Bike)
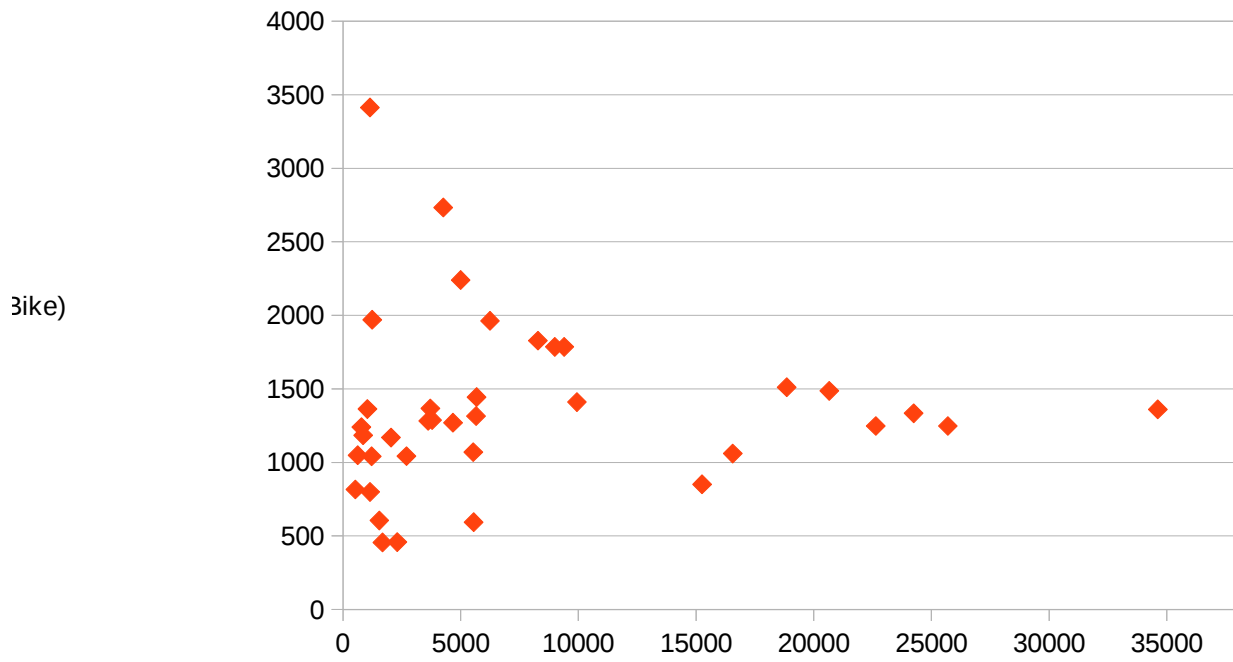
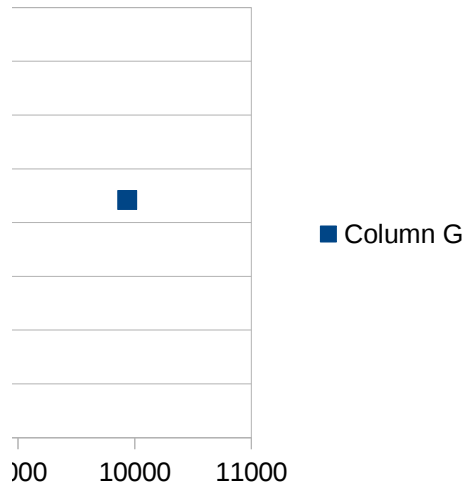2322

ike)

alpha

strian count

■ Column G

)00 10000 11000

count

■ Column G

■ Column G

00 18000 20000

alpha

◆ bike

40000