GCRO – Quality of Life Survey

Final Weight Calculations

Due to the differences in population sizes, a two-step process of weighting was implemented after the data collection and data cleaning process:

- weighting to adjust for the sample design; and

- benchmarking to adjust for demographics.

For any probability sample, the design weight has to be calculated first. Design weights are assigned to make weighted sample records represent the target population as closely as possible. Weights are usually developed in different stages to compensate for:

- unequal inclusion probabilities (design weight);
- non-response, (substitution in field);
- non-coverage and skewedness resulting from sample design and fieldwork.

After the design weights were calculated, a second phase of weighting was implemented, namely benchmarked. The design weights were benchmarked to adjusts for demographics and corrects for oversampling. Since some population variables will be over/under sampled, it is necessary to make adjustments to 'reduce' the contribution of the smaller variables and 'increase' the contribution of the larger ones. Adjusting for demographics (ward, race and gender) is necessary because some demographic groups will be over or underrepresented in the sample. It is thus required to bring the sample in line with known population demographics.

The design weights were calculated as follows based on Census 2011 numbers per ward. First the selection probability and weight of a household in a ward is determined by

$$W_{HH} = \left(\frac{n_{HH}}{N_{HH}} \right)^{-1}$$

where n_{HH} the number of households is interviewed during the survey in a specific ward and N_{HH} is the population number of households in that ward. In the final stage, a person aged 18 years or older is selected from the drawn household. The respondent weight is given by

$$W_{PP} = W_{HH} * n_{18+},$$

where n_{18+} is taken as the number of persons aged 18 years and older in the selected household as well as the average number of persons aged 18 years and older in the selected households in that ward. The latter is used further in the benchmarking process, since they resulted in more smooth design weights.

After the calculation of the design weight these weights are benchmarked to the Census 2011 gender-by-race adult population per ward as desired by GCRO. The benchmarking is executed on the gender-race cells per ward as far as possible. If no males or females of a certain race group in a ward are interviewed, the other gender group of that race group is benchmarked to the population size of both males and females of that race group in the ward. If a race group is not included in the sample, its population size is proportional divided among the other race groups present in the sample so that the population total of that ward is still correct.

Two sets of weights were calculated:

- Proportional weights to replicate the achieved sample size of 30 0002
- Population weight to replicate the population size of 8 849 063

Key take outs:

1. It is evident from the "Unweighted Row %" and "Census 2011 %" that the wards are in half of the times under-represented, whereas the other half is over-represented compared to the 2011 Census. The differences range between -0.15 to 0.16
2. It is also evident that more than 50% of that race/gender category is under-represented compared to 2011 Census. The differences range between -2.22 to 6.52
3. The weights are added to the QoL Survey SPSS database with the naming convention of "Bench_wgt_30002"
4. For the 2015 QoL survey, the weights were developed jointly Dr Ariane Neethling

TABLE 1 WEIGHTS

Ward	Population Group										Unweighted row %	Census %	Weighted row %
	African		Coloured		Indian / Asian		White		Other				
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			
74201001	0.69	1.01	0.18	0.24	0.43		1.18	0.81			0.16%	0.15%	0.15%
74201002	1.15	1.23									0.11%	0.13%	0.13%
74201003	0.98	0.84					1.58	1.24			0.15%	0.15%	0.15%
74201004	0.60	1.03			0.56		1.86	1.90	0.24		0.13%	0.13%	0.13%
74201005	0.29	0.32				0.70	2.38	0.85			0.18%	0.15%	0.15%
74201006	1.64	1.03									0.14%	0.18%	0.18%
74201007	1.45	0.87	0.04	0.09			2.72				0.13%	0.15%	0.15%
74201008	1.40	0.84					0.46	1.01			0.11%	0.11%	0.11%
74201009	1.19	2.04					1.32	2.52			0.10%	0.16%	0.16%
74201010	1.06	2.44		1.14			1.28	0.90			0.15%	0.18%	0.18%
74201011	1.28	0.88					2.66	2.59			0.15%	0.17%	0.17%
74201012	0.79	0.83									0.11%	0.09%	0.09%
74201013	1.17	0.99		0.08							0.12%	0.12%	0.12%
74201014	1.22	0.71									0.11%	0.10%	0.10%
74201015	2.23	1.49	0.60	0.74			1.16	1.20			0.12%	0.18%	0.18%
74201016	0.62	0.31	1.01	4.39			2.00	1.06			0.19%	0.13%	0.13%
74201017	1.02	0.39									0.14%	0.08%	0.08%
74201018	0.96	1.01									0.11%	0.11%	0.11%
74201019	1.66	0.83									0.12%	0.13%	0.13%
74201020	2.72	0.84				0.03					0.11%	0.14%	0.14%
74201021	1.15	0.72			0.56	0.70					0.19%	0.15%	0.15%
74201022	1.04	1.43									0.11%	0.14%	0.14%
74201023	1.74	1.06					0.42				0.10%	0.11%	0.11%
74201024	1.44	0.62									0.10%	0.08%	0.08%
74201025	1.08	0.82					13.47				0.13%	0.16%	0.16%
74201026	1.08	1.05									0.18%	0.19%	0.19%

74201027	0.85	0.63								0.12%	0.08%	0.08%
74201028	1.24	0.69								0.21%	0.18%	0.18%
74201029	2.21	0.87								0.10%	0.12%	0.12%
74201030	0.73	1.16								0.11%	0.10%	0.10%
74201031	0.84	0.74								0.12%	0.09%	0.09%
74201032	1.30	0.74								0.10%	0.09%	0.09%
74201033	1.58	0.92								0.11%	0.12%	0.12%
74201034	1.00	0.74								0.11%	0.09%	0.09%
74201035	0.67	0.67								0.13%	0.09%	0.09%
74201036	1.31	0.88								0.16%	0.17%	0.17%
74201037	0.88	0.95								0.10%	0.09%	0.09%
74201038	1.21	1.18								0.10%	0.12%	0.12%
74201039	1.23	0.86								0.10%	0.10%	0.10%
74201040	1.19	0.83								0.10%	0.10%	0.10%
74201041	1.09	0.94								0.10%	0.10%	0.10%
74201042	0.51	0.80								0.11%	0.07%	0.07%
74201043	2.25	0.87								0.10%	0.12%	0.12%
74201044	1.25	1.52								0.10%	0.14%	0.14%
74201045	0.72	1.05	0.85				1.07	1.14		0.12%	0.12%	0.12%
74202001	0.70	0.37					1.09	0.78		0.10%	0.06%	0.06%
74202002	0.75		0.16				0.65	0.28		0.11%	0.04%	0.04%
74202003	0.32	0.26				0.10	0.75	0.38		0.11%	0.05%	0.05%
74202004	0.46	0.38	0.13	0.18			1.78	1.35		0.10%	0.07%	0.07%
74202005	0.77	0.33					1.64	1.33		0.12%	0.09%	0.09%
74202006	1.01	0.51	0.12							0.10%	0.06%	0.06%
74202007	0.59	0.62		0.45			0.68	0.46		0.10%	0.06%	0.06%
74202008	0.82	0.53						0.25		0.10%	0.06%	0.06%
74202009	0.06	0.05				0.04	0.20	0.07		0.10%	0.01%	0.01%
74202010	0.90	0.45				0.07	0.68			0.11%	0.07%	0.07%
74202011	0.94	0.42			0.52		0.69	0.40	0.18	0.11%	0.06%	0.06%
74202012	0.42	0.18					1.56	0.37		0.10%	0.03%	0.03%
74202013	0.65	0.51					0.93	0.50		0.10%	0.06%	0.06%
74202014	0.08	0.43	0.03				0.51	0.46		0.12%	0.05%	0.05%
74203001	0.47	0.45								0.10%	0.05%	0.05%
74203002	0.93	0.39		0.12						0.11%	0.06%	0.06%

74203003	0.45	0.60								0.10%	0.05%	0.05%
74203004	0.52	0.45						0.05		0.11%	0.05%	0.05%
74203005	0.80	0.36								0.10%	0.05%	0.05%
74203006	0.59	0.39								0.10%	0.05%	0.05%
74203007	1.20	0.53								0.10%	0.08%	0.08%
74203008	0.73	1.22		1.05	0.51	1.09	0.78			0.10%	0.09%	0.09%
74203009	0.91	0.23			0.50	0.70	0.58			0.10%	0.06%	0.06%
74203010	0.54	0.60				0.46	1.01			0.10%	0.06%	0.06%
74203011	0.57	0.42								0.10%	0.05%	0.05%
74203012	0.50	0.96	0.56			2.16	1.91	0.15		0.10%	0.08%	0.08%
74203013	0.53	0.72								0.10%	0.06%	0.06%
74801001	1.74	0.68								0.10%	0.10%	0.10%
74801002	1.55	0.89								0.10%	0.11%	0.11%
74801003	1.33	0.49		8.23	0.92					0.10%	0.10%	0.10%
74801004	2.43	0.56								0.11%	0.10%	0.10%
74801005	0.57	0.52								0.11%	0.06%	0.06%
74801006	0.66	0.58								0.10%	0.06%	0.06%
74801007	1.29	0.58								0.10%	0.08%	0.08%
74801008	1.11	0.80		0.03					0.04	0.10%	0.09%	0.09%
74801009	0.47	0.50				0.64	1.12	0.07		0.10%	0.06%	0.06%
74801010	0.60	0.69								0.11%	0.07%	0.07%
74801011	1.01	0.96								0.10%	0.10%	0.10%
74801012	0.53	0.39								0.12%	0.05%	0.05%
74801013	1.28	0.57								0.10%	0.08%	0.08%
74801014	0.98	0.75				1.29	1.07			0.12%	0.11%	0.11%
74801015	0.61	0.58								0.11%	0.07%	0.07%
74801016	1.22	0.56				3.59		0.27		0.10%	0.10%	0.10%
74801017	0.40	0.94		0.09		0.64	1.14			0.10%	0.08%	0.08%
74801018	0.50	0.32				1.24	1.01			0.10%	0.09%	0.09%
74801019	0.76	0.42								0.10%	0.05%	0.05%
74801020	0.95	1.08				0.89	1.22			0.10%	0.11%	0.11%
74801021	0.34	0.54				1.01	1.06			0.10%	0.09%	0.09%
74801022	0.41	0.28				1.55	1.13			0.10%	0.09%	0.09%
74801023	1.12	0.76				1.91	0.96			0.10%	0.10%	0.10%
74801024	1.35	0.81								0.10%	0.10%	0.10%

74801025	0.72	0.34								0.12%	0.06%	0.06%
74801026	2.89	0.60				1.29	1.37			0.10%	0.14%	0.14%
74801027	1.82	0.67								0.11%	0.11%	0.11%
74801028	0.51	0.42				0.83	1.22			0.10%	0.08%	0.08%
74801029	0.48	0.59	0.23			0.80	0.83			0.10%	0.07%	0.07%
74801030	1.68	1.02								0.10%	0.13%	0.13%
74801031	0.81	0.81				2.08	0.53			0.10%	0.08%	0.08%
74801032	0.71	0.45				1.03	1.13			0.10%	0.06%	0.06%
74801033	0.56	0.67				1.20	1.17			0.11%	0.07%	0.07%
74801034	1.06	1.13								0.10%	0.11%	0.11%
74802001	0.53	1.08				0.89	2.66			0.11%	0.09%	0.09%
74802002	0.76	0.97				0.69	4.14			0.10%	0.09%	0.09%
74802003	0.35	0.35				0.57	1.26			0.10%	0.05%	0.05%
74802004	0.48	0.22				0.59	0.33			0.10%	0.04%	0.04%
74802005	0.35	0.47	0.26	0.28		0.62	1.00	0.25	0.10	0.10%	0.04%	0.04%
74802006	0.40	0.23			0.11	0.67	1.35			0.10%	0.06%	0.06%
74802007	0.45	0.41	0.17	0.19		0.59	0.96			0.11%	0.07%	0.07%
74802008	1.19	0.77	0.89	1.03		0.51	0.36			0.10%	0.08%	0.08%
74802009	0.79	0.43		0.71		0.79	1.70			0.11%	0.08%	0.08%
74802010	0.24	0.25	0.45	0.27						0.10%	0.03%	0.03%
74802011	0.32	0.27	0.11			0.27	0.43			0.10%	0.03%	0.03%
74802012	0.74	0.31						0.01		0.11%	0.05%	0.05%
74802013	0.82	0.45		0.10						0.10%	0.06%	0.06%
74802014	0.52	0.52								0.10%	0.05%	0.05%
74802015	0.66	0.39								0.10%	0.05%	0.05%
74802016	0.71	0.44								0.11%	0.06%	0.06%
74802017	0.30	0.29								0.11%	0.03%	0.03%
74802018	1.07	0.39								0.10%	0.06%	0.06%
74802019	0.44	0.28		0.20						0.10%	0.03%	0.03%
74802020	3.21	0.40	0.77	0.40				0.24		0.12%	0.07%	0.07%
74802021	0.47	0.24								0.11%	0.03%	0.03%
74802022	0.79	0.23								0.10%	0.04%	0.04%
74803001	0.90	0.47				0.34	0.95			0.10%	0.07%	0.07%
74803002	0.82	0.47					3.48			0.11%	0.08%	0.08%
74803003	0.30	0.43								0.10%	0.03%	0.03%

ID													
74803004	0.46	0.31					0.78	0.44			0.10%	0.04%	0.04%
74803005	0.34	0.72		0.11			0.61	0.60			0.10%	0.04%	0.04%
74803006	0.49	0.41					0.91	1.93			0.10%	0.06%	0.06%
74803007	0.99	0.48	0.08								0.10%	0.06%	0.06%
74803008	0.98	0.54									0.10%	0.07%	0.07%
74803009	0.48	0.45									0.10%	0.05%	0.05%
74803010	0.46	0.65		0.05							0.11%	0.06%	0.06%
74803011	0.42	0.28									0.11%	0.04%	0.04%
74803012	0.69	0.59									0.10%	0.06%	0.06%
74803013	1.05	0.25									0.12%	0.05%	0.05%
74803014	0.60	0.52									0.10%	0.06%	0.06%
74803015	0.40	0.50									0.11%	0.05%	0.05%
74803016	0.77	0.86									0.10%	0.08%	0.08%
74804001	0.83	0.81									0.10%	0.08%	0.08%
74804002	0.89	0.45									0.10%	0.06%	0.06%
74804003	0.46	0.47									0.10%	0.05%	0.05%
74804004	0.67	0.63								0.06	0.10%	0.06%	0.06%
74804005	0.26	0.16					0.44	0.20			0.11%	0.02%	0.02%
74804006	0.49	0.37									0.11%	0.04%	0.04%
74804007	0.63	0.49									0.11%	0.06%	0.06%
74804008	0.62	0.34									0.11%	0.05%	0.05%
74804009	0.59	0.36									0.10%	0.04%	0.04%
74804010	0.48	0.38									0.12%	0.05%	0.05%
74804011	0.59	0.37									0.11%	0.05%	0.05%
74804012	1.46	0.23	0.04	0.05			0.69	0.43			0.10%	0.05%	0.05%
74804013	0.65	0.31					0.48				0.13%	0.07%	0.07%
74804014	0.85	0.76									0.10%	0.08%	0.08%
74804015	0.44	0.28						1.65			0.11%	0.04%	0.04%
74804016	0.54	0.43		0.21			1.51				0.11%	0.06%	0.06%
74804017	0.27	0.15		0.09	0.12		2.15	2.34			0.12%	0.05%	0.05%
74804018	0.59	0.38			0.27		0.58	0.38			0.11%	0.05%	0.05%
74804019	0.43										0.10%	0.04%	0.04%
74804020	0.77	0.67									0.10%	0.07%	0.07%
74804021	0.85	0.74					1.89	1.48			0.12%	0.12%	0.12%
74804022	0.67	0.43									0.10%	0.05%	0.05%

ID													
74804023	0.58	0.48									0.10%	0.05%	0.05%
74804024	0.79	0.27		0.10			0.51	0.58			0.10%	0.04%	0.04%
74804025	0.45	0.63									0.10%	0.05%	0.05%
74804026	0.62	0.70					1.01	1.31			0.11%	0.08%	0.08%
74804027	0.36	0.38		0.10				1.64			0.11%	0.04%	0.04%
74804028	0.47	0.33					3.64	0.76			0.10%	0.06%	0.06%
79700001	1.27	0.89					19.14				0.35%	0.44%	0.44%
79700002	1.89	1.06									0.20%	0.28%	0.28%
79700003	1.11	0.83									0.23%	0.22%	0.22%
79700004	0.63	0.60									0.21%	0.13%	0.13%
79700005	0.89	0.93							0.95		0.25%	0.23%	0.23%
79700006	1.30	1.15									0.20%	0.25%	0.25%
79700007	1.07	1.05									0.20%	0.21%	0.21%
79700008	0.98	1.05									0.26%	0.26%	0.26%
79700009	0.98	0.98									0.20%	0.20%	0.20%
79700010	1.17	0.88									0.21%	0.21%	0.21%
79700011	0.78	0.67		0.10							0.35%	0.25%	0.25%
79700012	2.02	0.98									0.22%	0.30%	0.30%
79700013	0.84	1.10	0.33	0.25			2.98	4.83			0.22%	0.24%	0.24%
79700014	1.07	0.67									0.30%	0.25%	0.25%
79700015	0.81	1.23	0.49	0.57			0.86	1.21			0.26%	0.26%	0.26%
79700016	1.07	0.81		0.68	0.41	0.41	1.25	0.91			0.25%	0.24%	0.24%
79700017	1.00	1.35	3.24		0.59	2.27	2.54	1.23	0.40		0.25%	0.31%	0.31%
79700018	0.40	0.59	0.99	1.20	2.32		2.09	1.42			0.21%	0.24%	0.24%
79700019	0.41	0.68	0.61		1.07	1.07	2.89	0.99	1.23		0.23%	0.23%	0.23%
79700020	0.60	1.27	1.25		1.88	1.32	0.73	0.95	2.79		0.29%	0.26%	0.26%
79700021	1.07	1.60	0.51	0.54	0.87		1.23	2.47			0.29%	0.39%	0.39%
79700022	0.83	2.30	0.48	0.64	2.16	0.72	0.94	1.56			0.23%	0.26%	0.26%
79700023	0.47	0.79	0.23	0.55	1.41		1.00	1.15			0.28%	0.25%	0.25%
79700024	1.17	1.12	0.27	0.31		1.78	1.25	1.56	0.54		0.32%	0.38%	0.38%
79700025	1.26	0.95							0.22		0.31%	0.34%	0.34%
79700026	1.66	0.82									0.22%	0.24%	0.24%
79700027	3.57	2.23			0.39	0.60	0.86	0.99	0.34	0.39	0.22%	0.21%	0.21%
79700028	0.71	1.79		1.06		1.05	0.81	1.12			0.23%	0.23%	0.23%
79700029	1.04	0.64	1.12	0.46	0.58	1.05			0.22		0.20%	0.15%	0.15%

ID													
79700030	1.14	0.69									0.21%	0.19%	0.19%
79700031	1.24	0.74	1.35	0.46		5.39	1.70	0.83	0.46		0.27%	0.28%	0.28%
79700032	0.66	1.63	2.21	1.21	0.96	0.98	1.12	1.00	0.73		0.20%	0.21%	0.21%
79700033	1.73	1.12		1.85		1.31	1.67	2.03		0.96	0.25%	0.37%	0.37%
79700034	1.29	0.78	0.96	1.04	0.64						0.20%	0.20%	0.20%
79700035	1.37	0.90		1.57			2.54	1.00	0.42		0.21%	0.24%	0.24%
79700036	1.24	1.28	0.97	0.17			1.26	1.28		0.57	0.21%	0.24%	0.24%
79700037	0.59	0.56			0.34	0.38	1.58	1.45	0.58		0.25%	0.27%	0.27%
79700038	0.44	0.49	1.63	0.59	0.91	0.47	1.91	1.51		0.70	0.29%	0.29%	0.29%
79700039	0.99	0.73	1.12		1.54	0.71	1.59	1.64	0.65		0.26%	0.29%	0.29%
79700040	0.93	1.16		0.52							0.23%	0.24%	0.24%
79700041	1.43	0.97						0.35			0.28%	0.33%	0.33%
79700042	1.35	0.80	2.44	0.70			1.45	1.78			0.26%	0.30%	0.30%
79700043	0.99	1.06	0.43	0.82			1.11	4.66	0.25		0.20%	0.21%	0.21%
79700044	1.23	1.24									0.20%	0.25%	0.25%
79700045	1.18	1.11		1.03	0.65	1.23	0.12	0.21			0.22%	0.23%	0.23%
79700046	0.98	1.15									0.20%	0.22%	0.22%
79700047	1.27	0.99		0.15							0.22%	0.24%	0.24%
79700048	1.02	0.82		0.07							0.20%	0.18%	0.18%
79700049	1.16	0.85									0.21%	0.20%	0.20%
79700050	1.11	1.15							0.19		0.20%	0.22%	0.22%
79700051	1.89	0.91									0.20%	0.25%	0.25%
79700052	1.49	1.29									0.20%	0.28%	0.28%
79700053	1.30	0.68	3.07	1.02							0.27%	0.27%	0.27%
79700054	1.12	0.95									0.20%	0.21%	0.21%
79700055	1.45	0.79									0.23%	0.24%	0.24%
79700056	0.95	0.84									0.22%	0.19%	0.19%
79700057	1.58	1.17									0.20%	0.27%	0.27%
79700058	1.17	0.98	0.92	0.97	1.70	0.55					0.32%	0.33%	0.33%
79700059	1.72	0.72									0.25%	0.25%	0.25%
79700060	1.45	0.99		0.22							0.21%	0.24%	0.24%
79700061	1.37	0.84		0.33							0.27%	0.28%	0.28%
79700062	1.81	0.55									0.20%	0.17%	0.17%
79700063	1.20	0.85									0.26%	0.26%	0.26%
79700064	1.41	0.97		0.45						0.13	0.23%	0.26%	0.26%

ID	1	2	3	4	5	6	7	8	9	10	%	%	%
79700065	1.53	0.94	0.23									0.24%	0.28%	0.28%
79700066	0.91	0.82									0.35%	0.30%	0.30%
79700067	1.83	0.82	0.28								0.23%	0.26%	0.26%
79700068	2.00	0.94	0.23								0.20%	0.26%	0.26%
79700069	1.00	0.73									0.20%	0.17%	0.17%
79700070	1.14	0.79									0.20%	0.19%	0.19%
79700071	1.87	1.02									0.25%	0.36%	0.36%
79700072	1.57	1.13	0.86		1.31	0.80	2.14	1.11			0.20%	0.26%	0.26%
79700073	1.81	1.35	0.30	0.16	1.20	2.16	0.80	1.04			0.20%	0.27%	0.27%
79700074	0.93	0.83	0.32	0.31			1.84	1.54	0.12		0.22%	0.23%	0.23%
79700075	0.70	0.77	0.42		1.10		1.42	1.76		0.25	0.28%	0.28%	0.28%
79700076	0.74	0.44	0.37	0.25	0.53	0.48	2.33	1.15		0.50	0.26%	0.24%	0.24%
79700077	1.58	0.88									0.22%	0.25%	0.25%
79700078	0.94	1.02		0.26							0.20%	0.20%	0.20%
79700079	1.15	1.07									0.23%	0.25%	0.25%
79700080	0.89	0.78		0.13							0.21%	0.17%	0.17%
79700081	1.53	0.88							0.59		0.28%	0.32%	0.32%
79700082	0.88	1.25									0.20%	0.21%	0.21%
79700083	1.02	0.96								0.21	0.20%	0.20%	0.20%
79700084	1.13	0.96									0.28%	0.29%	0.29%
79700085	1.59	0.87	0.30								0.21%	0.23%	0.23%
79700086	1.18	1.14	0.34								0.25%	0.29%	0.29%
79700087	1.23	0.81									0.23%	0.22%	0.22%
79700088	1.05	0.65	0.72	0.82	1.71	0.92	1.01	2.87			0.25%	0.25%	0.25%
79700089	1.90	1.03						2.84			0.31%	0.44%	0.44%
79700090	1.61	0.99									0.22%	0.28%	0.28%
79700091	0.97	0.93		1.10			1.46	1.57			0.25%	0.26%	0.26%
79700092	0.66	1.10			0.38	2.18	1.34	0.90	1.49		0.28%	0.26%	0.26%
79700093	1.39	0.90	1.22	0.50	0.35		0.67				0.20%	0.21%	0.21%
79700094	1.69	1.32			1.34	1.24	1.13	0.90		0.73	0.20%	0.23%	0.23%
79700095	1.08	0.99									0.23%	0.23%	0.23%
79700096	0.86	0.69									0.27%	0.21%	0.21%
79700097	0.80	0.70	0.15	0.41	1.16	0.97	1.28	1.78	0.35		0.27%	0.29%	0.29%
79700098	0.92	0.77					1.13				0.20%	0.18%	0.18%
79700099	1.18	0.76	1.24	0.49							0.41%	0.37%	0.37%

ID													
79700100	1.05	0.96			1.07		2.86	1.31				0.22%	0.27%	0.27%
79700101	1.04	0.77										0.34%	0.31%	0.31%
79800001	1.64	0.87										0.29%	0.32%	0.32%
79800002	1.92	0.82										0.27%	0.30%	0.30%
79800003	1.28	1.03										0.20%	0.23%	0.23%
79800004	1.42	0.97									0.20	0.27%	0.30%	0.30%
79800005	1.48	0.95	0.29									0.31%	0.35%	0.35%
79800006	1.35	0.98										0.24%	0.28%	0.28%
79800007	1.03	1.03	1.73	1.29		0.73		0.13				0.25%	0.29%	0.29%
79800008	1.24	0.74	0.31	0.32	1.63	2.95						0.31%	0.32%	0.32%
79800009	0.71	0.37	0.19	0.44	2.16	2.57	0.15					0.21%	0.25%	0.25%
79800010	1.32	0.98		0.71	1.23	2.04						0.22%	0.27%	0.27%
79800011	1.00	1.09	6.97								0.17	0.20%	0.27%	0.27%
79800012	1.03	1.20										0.20%	0.22%	0.22%
79800013	1.82	1.06										0.22%	0.28%	0.28%
79800014	1.44	1.17		0.16								0.20%	0.25%	0.25%
79800015	1.33	0.87										0.20%	0.21%	0.21%
79800016	1.31	0.78	0.06									0.23%	0.23%	0.23%
79800017	1.12	1.31	0.89	1.66		0.14						0.24%	0.28%	0.28%
79800018	1.56	0.49	1.41	1.02								0.26%	0.29%	0.29%
79800019	1.12	1.14										0.20%	0.23%	0.23%
79800020	1.09	1.04										0.24%	0.26%	0.26%
79800021	1.25	1.06										0.21%	0.24%	0.24%
79800022	1.24	1.25	0.47									0.21%	0.26%	0.26%
79800023	0.56	0.83	0.57	0.63	2.39	2.62	1.03	1.29				0.29%	0.28%	0.28%
79800024	1.61	0.93										0.23%	0.27%	0.27%
79800025	1.25	1.44										0.22%	0.29%	0.29%
79800026	0.85	1.29										0.20%	0.20%	0.20%
79800027	0.88	1.14										0.20%	0.20%	0.20%
79800028	1.07	1.31										0.20%	0.24%	0.24%
79800029	0.86	1.08	2.47	1.00								0.23%	0.24%	0.24%
79800030	1.52	1.06	0.14									0.23%	0.29%	0.29%
79800031	1.29	0.96										0.21%	0.23%	0.23%
79800032	0.70	1.00	2.01			10.82	1.55	1.95				0.32%	0.34%	0.34%
79800033	1.39	1.00		0.13								0.20%	0.23%	0.23%

79800034	1.16	1.16									0.20%	0.24%	0.24%
79800035	1.02	0.88									0.21%	0.20%	0.20%
79800036	0.91	1.07									0.20%	0.20%	0.20%
79800037	1.53	0.92		0.14							0.21%	0.24%	0.24%
79800038	1.10	0.77									0.20%	0.19%	0.19%
79800039	0.86	0.72									0.33%	0.26%	0.26%
79800040	1.22	0.87	0.04								0.21%	0.20%	0.20%
79800041	1.18	0.89									0.20%	0.20%	0.20%
79800042	1.18	0.85	0.16								0.20%	0.20%	0.20%
79800043	1.37	0.86									0.20%	0.21%	0.21%
79800044	1.24	1.29									0.34%	0.43%	0.43%
79800045	1.45	0.93									0.20%	0.23%	0.23%
79800046	1.19	1.03									0.21%	0.23%	0.23%
79800047	1.65	0.87									0.21%	0.23%	0.23%
79800048	1.29	1.26									0.20%	0.26%	0.26%
79800049	0.95	1.35							0.46		0.35%	0.39%	0.39%
79800050	0.91	0.89	0.07								0.20%	0.18%	0.18%
79800051	0.99	1.18									0.21%	0.22%	0.22%
79800052	0.91	1.51		0.09							0.21%	0.23%	0.23%
79800053	2.00	1.07									0.35%	0.49%	0.49%
79800054	0.56	1.17	2.81	0.97	0.87	2.01	2.22	1.79			0.33%	0.35%	0.35%
79800055	0.98	1.15	0.58	0.49	4.78	2.28	7.35	2.58			0.21%	0.25%	0.25%
79800056	0.94	0.92	1.15	0.55	0.42	0.43	0.80	2.66	0.33	0.58	0.28%	0.26%	0.26%
79800057	1.78	1.49	0.36	0.49	1.11	1.14	3.17	2.27	0.87		0.23%	0.30%	0.30%
79800058	0.86	0.84		5.66	2.38	1.78	1.43			1.33	0.20%	0.26%	0.26%
79800059	0.29	0.22									0.20%	0.05%	0.05%
79800060	1.37	1.72	1.42		0.92	0.58					0.30%	0.44%	0.44%
79800061	0.81	1.19	0.28	0.36	0.81		0.30	0.22	0.17		0.20%	0.16%	0.16%
79800062	0.84	1.02									0.20%	0.18%	0.18%
79800063	1.13	1.29	0.11	0.24							0.20%	0.23%	0.23%
79800064	1.07	1.18		0.98					0.38		0.26%	0.29%	0.29%
79800065	1.00	1.77			0.43						0.20%	0.23%	0.23%
79800066	1.73	1.42	0.59	0.47	3.91	1.89	4.62	1.31	0.57	0.23	0.28%	0.39%	0.39%
79800067	0.76	0.90	0.59	0.88							0.24%	0.20%	0.20%
79800068	0.99	1.66	1.51	0.88	0.40			0.43			0.23%	0.26%	0.26%

79800069	1.21	2.18	1.22	0.72	1.94	2.96	3.81	4.06	0.71	0.59	0.20%	0.30%	0.30%
79800070	0.57	1.07	1.56	0.99	0.88	2.93	1.67	1.90			0.25%	0.27%	0.27%
79800071	1.44	0.92	0.87	0.50	0.71	0.62	0.92	1.27	0.30		0.27%	0.26%	0.26%
79800072	0.32	0.97	0.33	0.31	0.16	0.07	2.54	1.17	0.09	0.05	0.20%	0.16%	0.16%
79800073	0.77	1.37	0.25	0.29	0.94	1.24	1.97	1.21			0.23%	0.25%	0.25%
79800074	0.76	0.93	0.70	0.17	0.86	0.62	1.78	1.06			0.24%	0.23%	0.23%
79800075	1.27	0.60									0.23%	0.19%	0.19%
79800076	0.75	0.73									0.20%	0.15%	0.15%
79800077	1.62	0.85									0.36%	0.42%	0.42%
79800078	1.19	0.85		0.20							0.39%	0.39%	0.39%
79800079	1.91	0.99									0.29%	0.39%	0.39%
79800080	1.34	1.03	0.20								0.20%	0.23%	0.23%
79800081	1.12	1.42	0.77	0.24		4.43	5.92	0.79			0.23%	0.29%	0.29%
79800082	2.03	1.95	0.93	1.44	0.47	0.87	5.47	2.71			0.20%	0.28%	0.28%
79800083	2.00	0.51	0.21	0.36			1.51	0.84			0.21%	0.19%	0.19%
79800084	1.11	1.28	0.79	1.59	0.69	0.54	1.28	1.45	0.92		0.24%	0.28%	0.28%
79800085	0.63	0.54	0.62	0.75	1.42	1.41	1.54	2.05	0.70		0.25%	0.23%	0.23%
79800086	1.25	1.27	0.50	0.82	1.33	1.29	1.48	2.35		1.49	0.24%	0.30%	0.30%
79800087	0.42	0.78	0.15	0.22	1.87	1.96	0.86	0.92			0.20%	0.15%	0.15%
79800088	0.44	1.30	0.22	0.42	1.26	2.06	1.35	1.47	0.51	0.58	0.22%	0.22%	0.22%
79800089	0.60	0.53	0.50	0.26	3.98		1.46	1.46			0.20%	0.19%	0.19%
79800090	0.59	0.89		0.41	0.98		1.95	1.03			0.22%	0.21%	0.21%
79800091	0.87	0.95	0.40			4.22	5.05	1.80	1.07		0.20%	0.23%	0.23%
79800092	1.14	1.13	0.23	0.86	0.84	2.58	1.48	4.49			0.33%	0.38%	0.38%
79800093	0.57	0.73	0.52	0.26	2.76		1.48	1.80	1.00		0.20%	0.22%	0.22%
79800094	0.46	1.23	0.16	0.45			1.28	0.99	0.43		0.20%	0.18%	0.18%
79800095	2.53	0.75	0.14								0.33%	0.41%	0.41%
79800096	1.12	0.85	0.46	1.28	6.80		1.47	2.59			0.42%	0.50%	0.50%
79800097	1.14	0.89	0.59	1.32	0.58	1.09	1.13	1.82			0.41%	0.47%	0.47%
79800098	1.34	0.76		1.37	1.20	1.38	1.00	1.48			0.25%	0.27%	0.27%
79800099	0.46	1.11	0.30	0.82		0.89	1.48	0.83			0.20%	0.18%	0.18%
79800100	1.79	1.20		1.26	1.88		1.02	1.16		1.55	0.30%	0.43%	0.43%
79800101	0.66	0.69	0.93	1.24	0.95	2.23	1.13	1.23			0.27%	0.28%	0.28%
79800102	0.54	1.11	0.62		1.91	3.91	1.52	1.75		1.26	0.26%	0.30%	0.30%
79800103	0.43	1.52	0.22	0.56	7.03	1.17	1.22	1.19		2.31	0.32%	0.33%	0.33%

ID	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P1	P2	P3
79800104	0.85	1.38	0.48	1.24	2.37		1.21	2.19	1.09		0.20%	0.27%	0.27%
79800105	1.15	0.74									0.43%	0.39%	0.39%
79800106	0.61	0.85	0.22	0.64	1.35	1.04	2.22	1.92			0.27%	0.32%	0.32%
79800107	0.68	0.94									0.20%	0.16%	0.16%
79800108	1.34	1.19									0.21%	0.27%	0.27%
79800109	0.73	0.91		0.58	2.49	1.65	2.03	1.57			0.22%	0.22%	0.22%
79800110	1.63	1.24	2.18	2.53							0.32%	0.47%	0.47%
79800111	1.17	1.24									0.39%	0.47%	0.47%
79800112	0.92	1.46	0.41	0.38	1.68	5.06	1.47	1.20			0.40%	0.50%	0.50%
79800113	1.38	0.82		0.20							0.73%	0.77%	0.77%
79800114	1.43	1.18	1.68		2.06	2.10	3.42	1.85	0.33	0.28	0.30%	0.43%	0.43%
79800115	0.61	2.49	1.09		0.73	1.32	0.87	1.29			0.31%	0.33%	0.33%
79800116	0.99	0.73			0.03						0.20%	0.17%	0.17%
79800117	0.29	0.74	0.99		0.66	0.77	1.47	1.75			0.20%	0.18%	0.18%
79800118	0.88	1.23	0.95	0.74	1.98	3.82	1.56	2.29	1.53		0.21%	0.27%	0.27%
79800119	1.26	0.93	2.82	0.78							0.34%	0.37%	0.37%
79800120	0.94	1.01	0.81	1.75	2.27	1.70					0.25%	0.30%	0.30%
79800121	1.35	1.06	1.70	1.31	1.23	0.98			0.61		0.32%	0.39%	0.39%
79800122	1.47	1.14	0.23	1.25	1.24	1.13	1.84				0.32%	0.39%	0.39%
79800123	1.26	1.75						0.54			0.27%	0.39%	0.39%
79800124	1.64	1.54	1.36	1.05	1.16	0.88	1.06	1.04			0.26%	0.38%	0.38%
79800125	1.52	1.16	1.72	1.55	1.88	0.83	4.85	4.45			0.28%	0.40%	0.40%
79800126	1.88	1.74	0.30	0.26	0.51	0.93	0.84	1.34			0.25%	0.25%	0.25%
79800127	1.43	0.87								0.61	0.20%	0.23%	0.23%
79800128	1.47	1.10							0.51	0.25	0.32%	0.40%	0.40%
79800129	1.15	1.07									0.26%	0.28%	0.28%
79800130	1.05	0.79	0.58								0.21%	0.19%	0.19%
79900001	0.49	0.38	0.44	0.48			1.15	1.54			0.22%	0.22%	0.22%
79900002	0.64	1.89	0.42		0.26	0.20	1.05	0.85			0.20%	0.18%	0.18%
79900003	1.32	1.31		1.17		1.88	1.50	1.42			0.20%	0.28%	0.28%
79900004	1.37	1.13	0.98				1.16	0.95			0.26%	0.30%	0.30%
79900005	0.75	0.62	0.08	0.55		1.13	1.94	1.34			0.23%	0.24%	0.24%
79900006	1.04	0.54									0.20%	0.14%	0.14%
79900007	2.00	0.97	0.65	0.38	0.81	1.15					0.27%	0.34%	0.34%
79900008	1.28	0.88									0.21%	0.22%	0.22%

ID													
79900009	2.23	0.95								0.17	0.21%	0.27%	0.27%
79900010	1.57	0.85	0.15	0.17							0.29%	0.33%	0.33%
79900011	0.72	1.06									0.21%	0.18%	0.18%
79900012	0.68	0.41									0.34%	0.18%	0.18%
79900013	1.19	0.75									0.21%	0.19%	0.19%
79900014	0.82	0.99									0.21%	0.19%	0.19%
79900015	0.91	0.73									0.20%	0.16%	0.16%
79900016	0.76	0.85									0.21%	0.17%	0.17%
79900017	1.33	0.98		0.33							0.28%	0.32%	0.32%
79900018	1.09	0.81									0.22%	0.20%	0.20%
79900019	1.54	0.92		0.26							0.20%	0.23%	0.23%
79900020	0.83	0.81		0.30							0.27%	0.22%	0.22%
79900021	1.14	0.87									0.24%	0.24%	0.24%
79900022	1.29	0.80	0.31								0.26%	0.25%	0.25%
79900023	1.02	0.58									0.24%	0.18%	0.18%
79900024	1.28	0.64									0.40%	0.34%	0.34%
79900025	1.08	0.72									0.22%	0.19%	0.19%
79900026	1.12	0.87							0.15		0.20%	0.19%	0.19%
79900027	1.33	0.87									0.20%	0.21%	0.21%
79900028	1.07	0.59	0.16								0.20%	0.15%	0.15%
79900029	1.24	0.80									0.22%	0.22%	0.22%
79900030	1.69	0.77		0.29							0.28%	0.28%	0.28%
79900031	1.29	0.86	0.23								0.21%	0.21%	0.21%
79900032	1.64	1.05									0.20%	0.25%	0.25%
79900033	0.68	0.59									0.22%	0.14%	0.14%
79900034	0.87	0.90									0.21%	0.19%	0.19%
79900035	0.87	0.62	0.12								0.20%	0.14%	0.14%
79900036	1.11	0.93	0.11		0.08						0.20%	0.19%	0.19%
79900037	0.98	0.83									0.36%	0.32%	0.32%
79900038	0.56	0.28	0.13								0.21%	0.09%	0.09%
79900039	1.18	1.02									0.21%	0.23%	0.23%
79900040	1.89	1.08	0.83								0.36%	0.51%	0.51%
79900041	0.50	0.58	0.93		0.45	0.23	0.92	1.42	0.66		0.20%	0.16%	0.16%
79900042	0.34	0.64	0.27	0.39		1.42	1.36	1.44			0.20%	0.18%	0.18%
79900043	0.85	0.51	1.42	1.35	0.67		0.77	0.54			0.20%	0.21%	0.21%

ID	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P1	P2	P3
79900044	0.62	2.39	0.05	0.16	0.21	0.25	0.75	1.23		0.74	0.20%	0.17%	0.17%
79900045	0.40	0.19	0.33	0.35		0.36	0.63	0.61	0.37		0.21%	0.10%	0.10%
79900046	0.37	0.50		1.07	0.37	0.81	1.31	1.81	1.44		0.20%	0.19%	0.19%
79900047	0.49	0.65	0.26	0.29			0.58	1.18		0.49	0.20%	0.15%	0.15%
79900048	1.28	0.66		0.32				1.97	0.43		0.33%	0.30%	0.30%
79900049	1.13	1.16									0.23%	0.26%	0.26%
79900050	0.42	0.56	0.04	0.32			1.11	1.70			0.20%	0.19%	0.19%
79900051	0.96	1.18	0.14	0.16	0.97	0.75			0.75		0.23%	0.23%	0.23%
79900052	0.57	0.62	0.96				0.75	1.60	0.40		0.20%	0.19%	0.19%
79900053	0.75	0.71	0.28	0.75			1.24	1.33	0.78		0.21%	0.22%	0.22%
79900054	0.33	0.27	0.14	0.49			1.43	1.83	0.78		0.20%	0.19%	0.19%
79900055	1.02	0.52	0.49	0.53			1.39	1.54			0.20%	0.22%	0.22%
79900056	0.70	0.80	1.42		1.07	0.69	1.12	1.61			0.20%	0.20%	0.20%
79900057	0.48	0.72	1.06	0.43		3.58	1.89	5.01		0.64	0.21%	0.26%	0.26%
79900058	1.25	1.29	0.65	0.71			2.40	5.23			0.22%	0.31%	0.31%
79900059	0.71	1.18	1.17					15.96			0.20%	0.23%	0.23%
79900060	2.06	1.12	0.42	1.29	1.09	0.52	3.62	3.42			0.21%	0.31%	0.31%
79900061	1.27	1.24	0.54	0.63	2.12	1.33	0.56		0.41		0.29%	0.37%	0.37%
79900062	0.87	0.74									0.21%	0.17%	0.17%
79900063	0.97	0.56									0.20%	0.15%	0.15%
79900064	0.46	0.50	1.01	0.38	2.02	1.98	2.81	2.27		0.66	0.26%	0.29%	0.29%
79900065	0.34	0.73	0.24	0.62			1.12	1.59			0.21%	0.19%	0.19%
79900066	0.81	0.50	1.34		1.05	1.11	0.96	3.34			0.20%	0.21%	0.21%
79900067	0.75	0.73							0.23		0.24%	0.18%	0.18%
79900068	1.01	1.15									0.22%	0.24%	0.24%
79900069	0.18	0.31			2.25		1.73	2.00			0.21%	0.21%	0.21%
79900070	0.56	0.62			0.80	1.25	2.18	1.65			0.24%	0.26%	0.26%
79900071	1.30	1.05									0.21%	0.25%	0.25%
79900072	0.98	0.84									0.20%	0.18%	0.18%
79900073	1.12	1.40					0.35				0.24%	0.28%	0.28%
79900074	0.89	0.83									0.21%	0.18%	0.18%
79900075	0.93	1.06									0.22%	0.22%	0.22%
79900076	0.89	0.85									0.20%	0.17%	0.17%
79900077	1.38	0.92		1.74			11.33		1.69	0.45	0.60%	0.70%	0.70%
79900078	0.63	0.52	0.54	0.32	1.64		2.34	1.26			0.20%	0.20%	0.20%

ID	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P1	P2	P3
79900079	0.32	1.90	1.35		1.36		1.03	1.54		0.68	0.23%	0.25%	0.25%
79900080	1.36	1.27							0.21	0.17	0.21%	0.26%	0.26%
79900081	0.62	0.62					0.28	1.33			0.20%	0.12%	0.12%
79900082	0.42	0.51		1.02	0.62	0.47	1.96	1.36	0.89		0.20%	0.19%	0.19%
79900083	0.40	0.41	0.11	0.42	0.23	0.26	0.51	1.15	0.26		0.20%	0.11%	0.11%
79900084	0.81	0.42	1.89			1.15	1.66	1.83			0.22%	0.24%	0.24%
79900085	0.34	0.72		1.21			1.40	1.46			0.31%	0.31%	0.31%
79900086	1.31	1.03		3.23			0.72	0.34			0.30%	0.35%	0.35%
79900087	1.71	1.28	0.73	0.64			1.15	1.09			0.20%	0.21%	0.21%
79900088	1.38	0.87									0.20%	0.21%	0.21%
79900089	1.02	1.05									0.20%	0.21%	0.21%
79900090	1.21	1.00									0.29%	0.32%	0.32%
79900091	0.59	0.49	0.75	0.33	1.97		1.91	2.24			0.33%	0.35%	0.35%
79900092	1.16	1.33	1.13	1.44			1.99	5.35		1.59	0.21%	0.30%	0.30%
79900093	1.04	0.54		0.72			1.17				0.20%	0.15%	0.15%
79900094	0.81	0.70									0.22%	0.16%	0.16%
79900095	1.30	0.66									0.20%	0.18%	0.18%
79900096	1.18	0.76	0.45	0.43	0.37		1.32	2.21			0.21%	0.25%	0.25%
79900097	1.15	0.65									0.20%	0.17%	0.17%
79900098	0.76	0.90		0.76			1.72	1.04			0.21%	0.22%	0.22%
79900099	1.50	1.05		0.39			0.92	4.65			0.21%	0.26%	0.26%
79900100	1.78	0.86	0.97	0.82			1.24	1.63			0.21%	0.27%	0.27%
79900101	0.55	0.79				1.40	3.13	1.78			0.23%	0.26%	0.26%
79900102	1.51	0.76		0.80			3.82	3.87		1.07	0.22%	0.24%	0.24%
79900103	0.96	0.74									0.22%	0.18%	0.18%
79900104	0.94	0.93									0.20%	0.19%	0.19%
79900105	0.93	0.74					3.97	2.75			0.20%	0.21%	0.21%
Unweighted Col %	36.91%	43.63%	1.80%	2.02%	1.10%	1.01%	6.44%	6.68%	0.26%	0.15%			
Census 2011 %	38.86%	37.11%	1.52%	1.72%	1.50%	1.46%	8.17%	8.90%	0.46%	0.28%			
Weighted Col %	39.40%	37.61%	1.48%	1.57%	1.36%	1.36%	8.22%	8.77%	0.13%	0.09%			