

## Supplementary Appendix 1

Table A: Indicators used in previous studies regarding deprivation in Ecuador

No.	Reference and year of publication	(Author Domains of Dimensions	/ Variable / Indicators	Data Source
1	Cabrera -Barona et al. (2015)	Education	Level of instruction / people without any level of instruction	Census 2010
		Health	Health insurance / people with no health insurance	Census 2010
			Disabled people / people that are disable for more than a year	Census 2010
		Employment	Worker with no payment / people that work with no payment	Census 2010
		Housing	House structure / houses with damaged roofs	Census 2010
			Overcrowding / houses with more than four people per dormitory	Census 2010
			House Services / houses without sewerage system	Census 2010
			House Services / houses without connection to the electric grid	Census 2010
			House Services / houses without connection to the drinking water supply system	Census 2010
			House Services / houses without cobbled or paved access roads	Census 2010
			House Services / houses without garbage collection service	Census 2010
			House general condition / Houses that are shacks	Census 2010
		2	Peralta et al. (2019)	Education
	Educational attainment			Census 2010
Information and Communication	Mobile phone access			Census 2010
	Internet access			Census 2010
Housing and Urban Environment	Main cooking fuel			Census 2010
	Toilet for household use only			Census 2010
	Water Supply			Census 2010
	Rubbish collection			Census 2010
	Toilet to sewer			Census 2010
	Electricity supply			Census 2010
	Dwellings overcrowding			Census 2010
	Piped into residence/ dwelling			Census 2010
	Compound indicator of Dwelling's quality: Walls, Floor, Ceiling			Census 2010
Work and Security	Social	Private insurance	Census 2010	
		Women not payed working hours ratio	Life Conditions Survey 2013–2014	
		Poverty perception	Life Conditions Survey 2013–2014	
Historical Discrimination		Ethnicity	Census 2010	

No.	Reference (Author Domains and year of Dimensions publication)	/ Variable / Indicators	Data Source
3	Obaco et al. (2021)	Sewage system / No toilet and no public sewage system	ENEMDU Survey 2010-2017
		Water supply / No public water supply	ENEMDU Survey 2010-2017
		Electricity / No electricity	ENEMDU Survey 2010-2017
		Garbage / No garbage collection service	ENEMDU Survey 2010-2017
		Access / No good access to the house	ENEMDU Survey 2010-2017
		Bad walls / No durable material for walls	ENEMDU Survey 2010-2017
		Bad floor / No durable material for floors	ENEMDU Survey 2010-2017
		Telephone / No fixed telephone	ENEMDU Survey 2010-2017
		Internet / No internet connection	ENEMDU Survey 2010-2017
		Computer / No computer	ENEMDU Survey 2010-2017
		TV / No color TV	ENEMDU Survey 2010-2017
		Owner house / No owner of an occupied household	ENEMDU Survey 2010-2017
		Overcrowding / Four or more people per bedroom	ENEMDU Survey 2010-2017

#### References:

- 1 Cabrera-Barona P, Murphy T, Kienberger S, Blaschke T. A multi-criteria spatial deprivation index to support health inequality analyses. *International journal of health geographics* 2015;14:11–11. <https://doi.org/10.1186/s12942-015-0004-x>
- 2 Peralta A, Espinel-Flores V, Gotsens M, Pérez G, Benach J, Mari-Dell’Olmo M. Developing a deprivation index to study geographical health inequalities in Ecuador. *Revista de saúde pública* [Internet] 2019;53. Available from: <https://go.exlibris.link/Gtypq2NQ>. <https://doi.org/10.11606/s1518-8787.2019053001410>
- 3 Obaco M, Royuela V, Matano A. On the link between material deprivation and city size: Ecuador as a case study. *Land Use Policy* 2021 Dec.;111:104761. <https://doi.org/10.1016/j.landusepol.2020.104761>

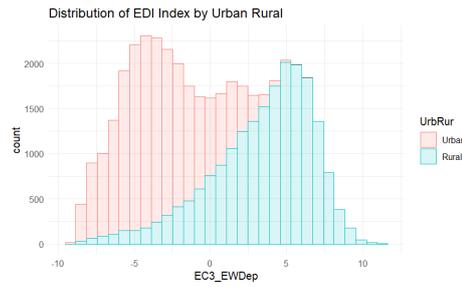
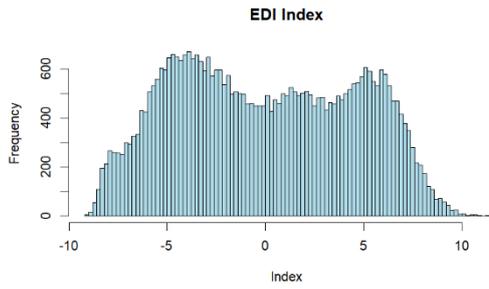
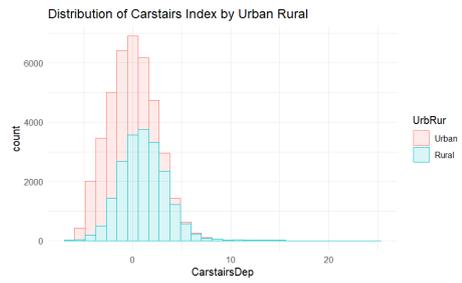
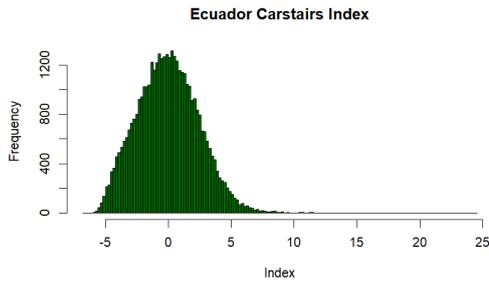
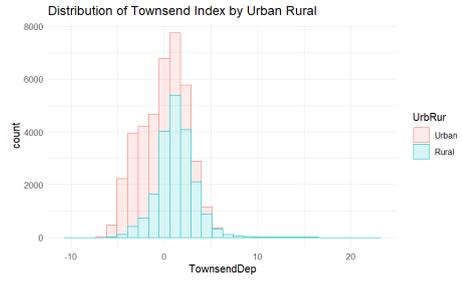
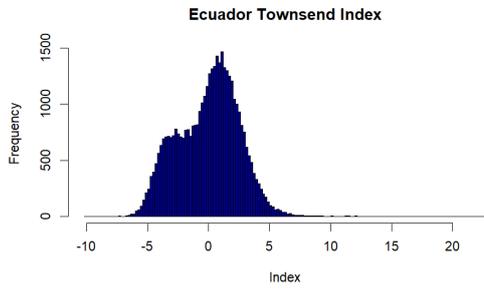
## Supplementary Appendix 2

Table B: Descriptors of 30 indicators used in the index construction

No.	Indicator	N	Mean	SD	Min	Median	Max	Histogram
1	% people less than 9 schooling years	40628	61.77	19.82	0.00	63.38	100.00	
2	% of unemployed out of active people	40626	4.78	4.77	0.00	4.00	100.00	
3	% of houses rented	40628	17.96	18.13	0.00	12.28	100.00	
4	% homes with more than 3 ppr	40593	15.76	10.22	0.00	14.51	100.00	
5	% of workers in low occupation categories	40625	22.12	20.35	0.00	14.89	100.00	
6	% of literacy	40628	9.41	7.51	0.00	7.27	100.00	
7	% of students in private establish	40588	23.30	20.25	0.00	18.37	100.00	
8	% of economic active people	40628	46.77	9.02	0.00	46.86	100.00	
9	% of people who worked < 40 hours	40625	37.90	18.03	0.00	34.43	100.00	
10	% of people with no social security	40628	73.93	13.64	0.00	75.19	100.00	
11	% of houses with no exclusive room for cooking	40628	18.09	14.46	0.00	14.63	100.00	
12	% of houses with shared toilette	40628	10.29	9.76	0.00	8.16	100.00	
13	% of houses with no toilette	40628	10.75	18.81	0.00	2.17	100.00	
14	% of houses with no shower	40628	39.82	32.76	0.00	32.91	100.00	
15	% of houses with coal and wood for cooking	40628	11.35	21.98	0.00	1.18	100.00	
16	% of people in manual basic occupations	40626	45.30	26.99	0.00	37.31	100.00	
17	% of houses that are huts and shacks	40628	12.82	18.28	0.00	5.82	100.00	
18	% of houses without cobbled or paved access roads	40628	43.39	36.35	0.00	37.80	100.00	
19	% of houses with reed, adobe or wood walls	40628	26.30	28.64	0.00	14.39	100.00	
20	% of houses with reed or dirt floor	40628	11.49	18.96	0.00	3.70	100.00	
21	% of houses with damaged floors	40628	56.79	24.02	0.00	59.13	100.00	
22	% of houses with water supply not from public network	40628	35.59	40.38	0.00	11.90	100.00	
23	% of houses that receive water not by piping system	40628	46.88	35.03	0.00	40.00	100.00	
24	% of houses without public sewage system	40628	54.79	43.36	0.00	64.29	100.00	
25	% of houses without or shared electric meter	40323	22.41	20.13	0.00	17.24	100.00	
26	% of houses without garbage collection service	40628	33.74	40.81	0.00	8.22	100.00	
27	% of people separated, divorced or widow	40628	10.12	3.86	0.00	9.93	100.00	
28	% of homes with at least one member commuting for working	40628	21.36	13.28	0.00	19.19	100.00	
29	% of homes with at least one member commuting to study	40628	10.95	10.71	0.00	7.45	100.00	
30	% of houses without connection to electric grid	40628	7.25	13.64	0.00	2.22	100.00	

# Supplementary Appendix 3

## Figure A: Deprivation Indices Histograms





## Supplementary Appendix 5

Table D: Great age groups by quintiles of deprivation indices

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5</b>	
	<b>Least</b>	<b>Towsend Index</b>			<b>Most</b>	<b>Total</b>
<b>0 to 14 years</b>	16%	19%	20%	22%	24%	100%
<b>15 to 64 years</b>	22%	21%	20%	19%	18%	100%
<b>65 years or more</b>	23%	20%	21%	20%	16%	100%

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5</b>	
	<b>Least</b>	<b>Carstairs Index</b>			<b>Most</b>	<b>Total</b>
<b>0 to 14 years</b>	15%	19%	20%	22%	24%	100%
<b>15 to 64 years</b>	22%	21%	20%	19%	18%	100%
<b>65 years or more</b>	24%	21%	20%	18%	17%	100%

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5</b>	
	<b>Least</b>	<b>EDI Index</b>			<b>Most</b>	<b>Total</b>
<b>0 to 14 years</b>	15%	18%	20%	22%	24%	100%
<b>15 to 64 years</b>	22%	21%	20%	19%	18%	100%
<b>65 years or more</b>	24%	19%	17%	18%	23%	100%

## Supplementary Appendix 6

Table E: Great Ethnic Auto-identification by quintiles of deprivation indices

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5</b>	
	<b>Least</b>	<b>Townsend Index</b>			<b>Most</b>	<b>Total</b>
<b>Indigenous EA</b>	6%	9%	17%	24%	43%	100%
<b>Afro-ecuadorian/Negro/Mulato</b>	10%	16%	20%	25%	28%	100%
<b>Montuvio EA</b>	4%	8%	17%	31%	40%	100%
<b>Mestizo</b>	23%	23%	21%	18%	15%	100%
<b>White</b>	32%	21%	17%	16%	14%	100%
<b>Other</b>	28%	17%	15%	17%	23%	100%

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5</b>	
	<b>Least</b>	<b>Carstairs Index</b>			<b>Most</b>	<b>Total</b>
<b>Indigenous EA</b>	5%	17%	23%	28%	27%	100%
<b>Afro-ecuadorian/Negro/Mulato</b>	9%	15%	22%	27%	27%	100%
<b>Montuvio EA</b>	4%	8%	13%	23%	52%	100%
<b>Mestizo</b>	23%	22%	20%	18%	16%	100%
<b>White</b>	33%	19%	18%	17%	12%	100%
<b>Other</b>	27%	17%	18%	20%	18%	100%

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5</b>	
	<b>Least</b>	<b>EDI Index</b>			<b>Most</b>	<b>Total</b>
<b>Indigenous EA</b>	4%	8%	11%	20%	57%	100%
<b>Afro-ecuadorian/Negro/Mulato</b>	11%	21%	28%	27%	13%	100%
<b>Montuvio EA</b>	5%	9%	14%	21%	51%	100%
<b>Mestizo</b>	23%	22%	21%	20%	15%	100%
<b>White</b>	36%	22%	19%	15%	8%	100%
<b>Other</b>	30%	21%	21%	21%	8%	100%

## Supplementary Appendix 7

Table F: Population weighted deprivation scores ranks for Parishes

<b>Parrish ID</b>	<b>EDI score rank</b>								
010150	5	050754	671	091051	406	130351	1000	170350	36
010151	99	060150	12	091053	660	130352	685	170351	79
010152	306	060151	979	091054	648	130353	878	170352	91
010153	957	060152	462	091150	175	130354	1008	170353	126
010154	193	060153	358	091151	565	130355	966	170354	282
010155	121	060154	937	091152	602	130356	880	170355	387
010156	141	060155	170	091153	572	130357	736	170356	47
010157	777	060156	844	091154	894	130450	310	170357	24
010158	229	060157	972	091250	217	130451	843	170450	104
010159	434	060158	899	091350	460	130452	818	170451	213
010160	150	060159	795	091450	438	130550	627	170452	268
010161	926	060160	517	091451	1003	130551	963	170453	373
010162	44	060161	255	091452	846	130552	737	170454	455
010163	139	060250	171	091650	18	130650	143	170550	6
010164	421	060251	1006	091651	701	130651	987	170551	98
010165	129	060253	920	091850	786	130652	968	170552	442
010166	231	060254	650	091950	673	130653	989	170750	352
010167	125	060255	877	091951	922	130654	977	170751	144
010168	332	060256	716	091952	1005	130656	1007	170850	333
010169	160	060257	931	091953	1011	130657	990	170950	581
010170	103	060258	906	092050	257	130658	490	180150	9
010171	448	060259	925	092053	656	130750	449	180151	240
010250	232	060260	930	092055	824	130850	31	180152	48
010251	390	060350	644	092056	227	130851	819	180153	256
010252	632	060351	893	092150	97	130852	776	180154	425
010350	49	060352	654	092250	454	130950	187	180155	106
010352	368	060353	951	092251	759	130952	436	180156	63
010353	640	060354	965	092350	87	131050	443	180157	361
010354	474	060450	338	092450	426	131051	1019	180158	131
010356	242	060550	345	092550	286	131052	921	180159	691
010357	842	060551	924	092750	176	131053	1016	180160	128
010358	771	060552	785	092850	668	131054	1014	180161	711
010359	399	060553	887	100150	13	131150	768	180162	478
010360	401	060554	784	100151	313	131151	1021	180163	64
010450	709	060650	702	100152	586	131152	867	180164	772
010451	853	060651	804	100153	803	131250	344	180165	277
010452	923	060652	927	100154	388	131350	343	180166	117
010453	637	060750	155	100155	874	131351	588	180167	201
010550	73	060751	471	100156	183	131352	952	180168	297
010552	546	060752	744	100157	50	131353	1022	180250	23
010553	450	060753	536	100250	32	131355	1020	180251	309

<b>Parrish ID</b>	<b>EDI score rank</b>								
010554	249	060754	515	100251	178	131450	88	180252	152
010556	610	060755	335	100252	68	131453	482	180253	195
010559	496	060756	760	100253	123	131457	653	180254	113
010561	764	060757	876	100254	226	131550	513	180350	93
010562	722	060758	761	100350	127	131551	494	180450	186
010650	830	060759	954	100351	845	131552	584	180451	294
010652	933	060850	568	100352	884	131650	589	180550	210
010750	270	060950	245	100353	962	131651	852	180551	547
010751	238	060951	428	100354	714	131652	1010	180552	509
010850	202	060952	320	100355	746	131653	982	180553	652
010851	367	060953	705	100356	221	131750	340	180650	485
010853	873	060954	416	100357	780	131751	939	180651	664
010950	212	060955	642	100358	1004	131752	1018	180652	464
010951	319	060956	665	100450	56	131753	980	180750	137
010952	553	061050	194	100451	151	131850	883	180751	250
010953	205	070150	34	100452	341	131950	203	180752	312
010954	805	070152	594	100453	266	131951	468	180753	383
010955	525	070250	134	100454	524	131952	296	180754	688
010956	730	070251	521	100455	574	132050	634	180755	567
011050	596	070254	767	100456	235	132150	218	180756	188
011051	523	070255	647	100457	241	132250	273	180757	315
011150	62	070350	120	100458	337	132251	831	180758	465
011151	184	070351	190	100459	753	140150	16	180850	72
011152	350	070352	389	100550	225	140151	182	180851	199
011153	493	070353	236	100551	986	140153	279	180852	424
011154	520	070354	284	100552	840	140156	223	180853	283
011250	156	070355	400	100553	630	140157	619	180854	230
011253	417	070450	100	100650	243	140158	505	180855	551
011350	124	070451	304	100651	608	140160	503	180856	537
011351	379	070550	556	100652	868	140162	720	180857	214
011352	275	070650	167	100653	544	140164	281	180950	303
011450	263	070651	506	100654	527	140250	92	180951	198
011550	285	070652	370	100655	418	140251	724	190150	21
011551	794	070653	694	110150	15	140252	559	190151	204
020150	261	070654	483	110151	863	140253	738	190152	347
020151	862	070750	109	110152	816	140254	469	190153	798
020153	1015	070850	148	110153	271	140255	533	190155	752
020155	635	070851	420	110154	929	140256	328	190156	459
020156	750	070950	57	110155	871	140257	676	190158	491
020157	854	070951	386	110156	369	140258	658	190250	378
020158	638	070952	327	110157	756	140350	65	190251	713
020159	997	070953	280	110158	206	140351	374	190252	289
020160	510	070954	718	110159	590	140353	912	190254	582
020250	677	070955	489	110160	791	140356	949	190256	719

<b>Parrish ID</b>	<b>EDI score rank</b>								
020251	728	070956	633	110161	158	140357	837	190259	659
020350	53	071050	39	110162	441	140358	612	190350	254
020351	814	071051	487	110163	727	140450	96	190351	708
020353	601	071052	404	110250	110	140451	896	190352	890
020354	518	071053	267	110251	956	140452	825	190450	498
020355	928	071054	414	110252	758	140454	641	190451	592
020450	324	071055	228	110253	946	140455	755	190452	864
020550	108	071056	278	110254	975	140550	66	190550	122
020551	392	071150	85	110350	101	140551	603	190551	445
020552	754	071151	372	110351	696	140552	325	190553	470
020553	955	071152	618	110352	394	140553	364	190650	209
020554	529	071153	707	110353	146	140554	573	190651	657
020555	697	071250	51	110354	539	140556	365	190652	477
020556	800	071251	237	110450	169	140557	558	190653	532
020650	215	071252	550	110451	710	140650	154	190750	288
020750	564	071253	161	110455	735	140651	940	190850	375
030150	19	071254	530	110456	726	140652	366	190851	865
030151	354	071255	251	110457	540	140655	264	190852	821
030153	133	071256	684	110550	435	140750	467	190853	311
030154	189	071257	499	110551	562	140751	614	190854	950
030155	247	071350	33	110552	743	140850	157	190950	265
030156	674	071351	886	110553	723	140851	774	190951	625
030157	900	071352	211	110554	888	140852	715	190952	704
030158	439	071353	959	110650	317	140853	731	200150	10
030160	447	071354	636	110651	820	140854	616	200151	153
030250	147	071355	179	110652	909	140950	623	200152	26
030251	626	071356	130	110653	836	140951	651	200250	25
030252	233	071357	200	110654	763	140952	781	200251	403
030253	466	071358	609	110655	576	140953	741	200350	14
030254	639	071359	577	110656	813	140954	681	200351	95
030350	78	071450	192	110750	107	141050	172	200352	180
030351	885	071451	598	110751	542	141051	631	210150	70
030352	385	071452	453	110753	770	141052	687	210152	538
030353	1009	071453	599	110754	779	141150	363	210153	745
030354	850	080150	29	110756	848	141250	649	210155	721
030355	451	080152	661	110850	135	141251	809	210156	461
030356	808	080153	992	110851	914	150150	60	210157	566
030357	686	080154	575	110852	918	150151	796	210158	492
030358	729	080159	828	110853	262	150153	944	210250	115
030361	917	080163	382	110950	207	150154	307	210251	253
030362	833	080165	662	110951	742	150155	628	210252	410
030363	519	080166	196	110952	947	150156	427	210254	456
030450	102	080168	185	110954	675	150157	645	210350	272
030451	322	080250	224	110956	812	150350	177	210351	615

<b>Parrish ID</b>	<b>EDI score rank</b>								
030452	604	080251	993	110957	734	150352	563	210352	998
030550	222	080252	748	110958	607	150354	789	210353	1017
030650	377	080253	351	110959	613	150450	75	210354	802
030651	484	080254	695	111050	220	150451	457	210450	168
030750	757	080255	908	111051	475	150452	548	210451	680
040150	30	080256	298	111052	557	150453	346	210452	960
040151	593	080257	971	111053	801	150454	348	210453	683
040153	412	080258	945	111054	422	150455	219	210454	339
040154	717	080259	981	111055	621	150750	45	210455	479
040155	336	080260	765	111150	197	150751	291	210550	244
040156	1024	080261	897	111151	999	150752	287	210551	371
040157	407	080262	495	111152	879	150753	94	210552	585
040158	827	080263	835	111153	973	150754	89	210553	552
040159	984	080264	396	111154	799	150756	248	210554	331
040161	329	080350	321	111155	904	150950	301	210650	402
040250	258	080351	958	111156	823	160150	28	210651	405
040251	488	080352	815	111157	790	160152	915	210652	314
040252	526	080353	535	111158	847	160154	810	210750	463
040253	570	080354	561	111159	749	160155	419	210751	549
040254	481	080355	870	111160	700	160156	826	210752	528
040255	554	080356	580	111250	605	160157	606	220150	67
040350	136	080357	953	111251	690	160158	895	220151	692
040351	629	080358	514	111252	869	160159	849	220152	516
040352	393	080450	330	111350	234	160161	985	220153	669
040353	269	080451	902	111351	706	160162	739	220154	413
040450	118	080452	970	111352	1002	160163	356	220155	866
040451	797	080453	911	111353	903	160164	839	220156	775
040452	935	080454	355	111354	964	160165	360	220157	595
040453	571	080455	480	111355	967	160166	703	220158	910
040550	132	080550	159	111450	502	160250	84	220159	679
040551	362	080551	995	111451	919	160251	787	220160	872
040552	380	080552	907	111452	889	160252	37	220161	732
040553	620	080553	476	111550	411	160350	208	220250	432
040554	433	080554	817	111551	384	160351	693	220251	991
040555	762	080555	751	111552	670	160450	569	220252	597
040650	239	080556	811	111650	587	160451	942	220253	936
040651	408	080557	943	111651	856	170150	4	220254	397
050150	46	080558	663	120150	59	170151	8	220255	851
050151	316	080559	643	120152	882	170152	42	220350	111
050152	429	080560	778	120153	622	170153	318	220351	500
050153	173	080561	860	120154	861	170154	114	220352	976
050154	349	080562	666	120155	511	170155	11	220353	667
050156	501	080650	116	120250	773	170156	3	220354	507
050157	300	080651	822	120251	1001	170157	1	220355	788

<b>Parrish ID</b>	<b>EDI score rank</b>								
050158	682	080652	216	120252	841	170158	302	220356	859
050159	423	080653	308	120350	290	170159	142	220357	834
050161	260	080654	174	120450	398	170160	74	220358	740
050162	792	080750	357	120451	932	170161	545	220450	140
050250	292	080751	994	120452	452	170162	52	220451	712
050251	855	080752	934	120550	76	170163	69	220452	938
050252	624	080753	698	120553	409	170164	86	220453	898
050350	678	080754	600	120555	430	170165	40	220454	783
050351	829	080755	655	120650	274	170166	305	220455	591
050352	978	080850	295	120651	579	170168	391	230150	58
050353	969	090150	17	120750	191	170169	166	230151	444
050450	334	090152	276	120752	881	170170	7	230152	733
050451	1013	090153	359	120850	395	170171	534	230153	522
050453	1023	090156	119	120851	941	170172	543	230154	766
050455	293	090157	617	120950	892	170174	164	230155	497
050456	905	090158	376	121050	259	170175	80	230156	646
050457	555	090250	583	121051	415	170176	145	230157	832
050458	1012	090350	437	121150	611	170177	2	240150	82
050550	149	090450	560	121250	747	170178	323	240151	81
050551	162	090550	806	121350	725	170179	43	240152	446
050552	838	090551	988	130150	41	170180	22	240153	440
050553	512	090650	112	130151	458	170181	504	240154	326
050554	342	090652	913	130152	431	170183	61	240155	782
050555	165	090653	858	130153	381	170184	20	240156	54
050650	181	090654	875	130154	699	170185	83	240250	71
050651	891	090656	961	130155	508	170186	27	240350	38
050652	486	090750	35	130156	689	170250	55	240351	353
050653	983	090850	246	130157	916	170251	105	240352	90
050750	793	090851	948	130250	299	170252	672	900151	472
050751	996	090852	807	130251	901	170253	473	900351	857
050752	974	090950	252	130252	578	170254	541	900451	531
050753	769	091050	77	130350	138	170255	163		

## Supplementary Appendix 8

Table G: Population weighted deprivation scores ranks for Cantons  
(municipalities)

<b>Canton ID</b>	<b>EDI score rank</b>	<b>Canton ID</b>	<b>EDI score rank</b>	<b>Canton ID</b>	<b>EDI score rank</b>	<b>Canton ID</b>	<b>EDI score rank</b>
0101	5	0705	171	1108	61	1501	67
0102	99	0706	94	1109	143	1503	136
0103	64	0707	37	1110	128	1504	45
0104	209	0708	49	1111	187	1507	31
0105	84	0709	36	1112	204	1509	105
0106	215	0710	25	1113	200	1601	42
0107	88	0711	39	1114	192	1602	20
0108	103	0712	30	1115	157	1603	91
0109	137	0713	53	1116	188	1604	207
0110	178	0714	110	1201	51	1701	2
0111	48	0801	15	1202	218	1702	44
0112	102	0802	184	1203	97	1703	18
0113	71	0803	185	1204	161	1704	54
0114	85	0804	159	1205	28	1705	1
0115	130	0805	126	1206	156	1707	100
0201	152	0806	55	1207	124	1708	109
0202	198	0807	199	1208	164	1709	181
0203	132	0808	101	1209	221	1801	14
0204	108	0901	4	1210	93	1802	13
0205	107	0902	182	1211	186	1803	29
0206	68	0903	147	1212	206	1804	65
0207	174	0904	172	1213	203	1805	111
0301	22	0905	217	1301	24	1806	163
0302	74	0906	78	1302	125	1807	79
0303	145	0907	8	1303	122	1808	75
0304	46	0908	148	1304	123	1809	98
0305	73	0909	81	1305	195	1901	34
0306	140	0910	35	1306	106	1902	146
0307	208	0911	119	1307	150	1903	154
0401	27	0912	69	1308	9	1904	177
0402	142	0913	153	1309	57	1905	58
0403	76	0914	180	1310	224	1906	113
0404	131	0916	16	1311	222	1907	96
0405	63	0918	211	1312	116	1908	167
0406	90	0919	219	1313	196	1909	162
0501	40	0920	135	1314	87	2001	3
0502	118	0921	32	1315	165	2002	10
0503	213	0922	179	1316	214	2003	6
0504	197	0923	26	1317	183	2101	50
0505	83	0924	144	1318	220	2102	82
0506	155	0925	95	1319	92	2103	168

<b>Canton ID</b>	<b>EDI score rank</b>						
0507	223	0927	52	1320	189	2104	104
0601	17	0928	193	1321	70	2105	120
0602	210	1001	7	1322	141	2106	133
0603	205	1002	19	1401	41	2107	160
0604	114	1003	129	1402	86	2201	56
0605	166	1004	43	1403	112	2202	191
0606	212	1005	127	1404	89	2203	117
0607	134	1006	151	1405	80	2204	190
0608	175	1101	11	1406	77	2301	33
0609	138	1102	72	1407	176	2401	66
0610	59	1103	47	1408	115	2402	21
0701	12	1104	139	1409	201	2403	23
0702	62	1105	173	1410	149	9001	158
0703	60	1106	194	1411	121	9003	216
0704	38	1107	170	1412	202	9004	169

## Supplementary Appendix 9

Table H: Population weighted deprivation scores ranks for Provinces

<b>Province ID</b>	<b>EDI score rank</b>
01	4
02	24
03	13
04	11
05	22
06	14
07	5
08	16
09	3
10	7
11	10
12	23
13	15
14	20
15	17
16	12
17	1
18	6
19	19
20	2
21	18
22	21
23	8
24	9

## Supplementary Appendix 10

Table I: Total Crosstabulations of Census Sectors by Index deciles

		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
		ED Index										
		Least									Most	
<b>Q1</b>	<b>Least</b>	2311	1076	308	45	4	4	0	3	0	0	3751
<b>Q2</b>		927	1291	928	346	70	10	2	0	1	0	3575
<b>Q3</b>		306	750	967	929	452	168	31	14	5	4	3626
<b>Q4</b>		78	289	543	810	895	653	324	157	58	7	3814
<b>Q5</b>		10	97	302	393	706	838	706	634	386	92	4164
<b>Q6</b>		2	28	171	298	365	598	721	888	951	388	4410
<b>Q7</b>		2	7	100	221	300	408	574	819	1188	782	4401
<b>Q8</b>		1	3	45	136	244	314	537	721	1179	1179	4359
<b>Q9</b>		0	3	12	67	169	288	492	673	1038	1434	4176
<b>Q10</b>	<b>Most</b>	0	0	2	19	79	179	406	682	950	1962	4279
<b>Total</b>		3637	3544	3378	3264	3284	3460	3793	4591	5756	5848	40555

		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
		ED Index										
		Least									Most	
<b>Q1</b>	<b>Least</b>	2849	722	114	16	9	5	8	5	3	2	3733
<b>Q2</b>		642	1637	785	294	132	87	68	49	26	8	3728
<b>Q3</b>		111	740	1097	753	413	299	219	207	115	42	3996
<b>Q4</b>		25	266	711	842	665	445	387	380	273	94	4088
<b>Q5</b>		5	116	380	660	680	590	456	506	509	171	4073
<b>Q6</b>		4	45	178	392	611	703	557	633	740	212	4075
<b>Q7</b>		1	11	79	190	424	573	673	679	965	478	4073
<b>Q8</b>		0	4	24	89	217	452	696	747	997	829	4055
<b>Q9</b>		0	2	10	24	110	236	496	794	1047	1473	4192
<b>Q10</b>	<b>Most</b>	0	1	0	4	23	70	233	591	1081	2539	4542
<b>Total</b>		3637	3544	3378	3264	3284	3460	3793	4591	5756	5848	40555

		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
		Townsend Index										
		Least									Most	
<b>Q1</b>	<b>Least</b>	2613	968	150	10	0	0	0	0	0	0	3741
<b>Q2</b>		915	1419	1022	329	46	0	0	0	0	0	3731
<b>Q3</b>		195	866	1290	1034	505	118	0	0	0	0	4008
<b>Q4</b>		30	246	778	1245	1076	577	140	0	0	0	4092
<b>Q5</b>		2	57	284	761	1172	1068	574	157	0	0	4075
<b>Q6</b>		1	14	79	309	826	1117	1053	582	94	0	4075
<b>Q7</b>		0	4	21	100	359	841	1076	1086	564	23	4074
<b>Q8</b>		0	1	4	24	144	460	834	1030	1226	333	4056
<b>Q9</b>		0	0	0	6	34	223	598	1006	1156	1171	4194
<b>Q10</b>	<b>Most</b>	0	0	1	1	5	20	127	498	1139	2754	4545
<b>Total</b>		3756	3575	3629	3819	4167	4424	4402	4359	4179	4281	40591

## Supplementary Appendix 11

Table J: Urban Areas Crosstabulations of Census Sectors by Index deciles

		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
		Least	EDI Index								Most	
Q1	Least	2176	1014	291	39	3	3	0	0	0	0	3526
Q2		813	1174	832	285	55	6	0	0	0	0	3165
Q3	Townsend index	280	682	868	754	301	75	4	0	0	0	2964
Q4		75	284	509	690	616	309	55	5	0	0	2543
Q5		10	96	295	365	575	456	151	21	2	0	1971
Q6		1	28	169	286	312	394	270	72	3	0	1535
Q7		2	7	99	219	285	332	297	104	13	1	1359
Q8		1	2	45	134	232	254	345	217	24	2	1256
Q9		0	2	12	67	163	260	375	319	38	0	1236
Q10	Most	0	0	2	17	75	149	305	360	93	4	1005
<b>Total</b>		3358	3289	3122	2856	2617	2238	1802	1098	173	7	20560

		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
		Least	EDI Index								Most	
Q1	Least	2601	650	91	8	0	0	0	0	0	0	3350
Q2		615	1489	679	205	48	6	0	0	0	0	3042
Q3	Carstairs index	107	713	1007	598	238	53	5	0	0	0	2721
Q4		25	262	686	749	483	184	32	0	0	0	2421
Q5		5	115	370	613	565	352	96	14	0	0	2130
Q6		4	44	176	379	554	519	225	44	1	0	1946
Q7		1	10	79	189	398	470	405	119	5	0	1676
Q8		0	4	24	89	204	394	495	231	12	0	1453
Q9		0	2	10	22	106	206	377	389	39	2	1153
Q10	Most	0	0	0	4	21	54	167	301	116	5	668
<b>Total</b>		3358	3289	3122	2856	2617	2238	1802	1098	173	7	20560

		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
		Least	Townsend Index								Most	
Q1	Least	2440	814	97	1	0	0	0	0	0	0	3352
Q2		869	1265	787	121	0	0	0	0	0	0	3042
Q3	Carstairs index	188	793	1071	617	52	0	0	0	0	0	2721
Q4		28	225	684	905	500	79	0	0	0	0	2421
Q5		2	52	245	580	701	438	111	1	0	0	2130
Q6		1	13	63	240	483	541	475	130	0	0	1946
Q7		0	3	15	61	169	311	471	527	120	0	1677
Q8		0	0	2	16	55	123	229	392	592	44	1453
Q9		0	0	0	2	10	39	64	182	417	439	1153
Q10	Most	0	0	0	0	1	4	9	24	108	522	668
<b>Total</b>		3528	3165	2964	2543	1971	1535	1359	1256	1237	1005	20563