

Appendix: Simulation Exercise Using Different Administrative Boundaries as Electoral Constituencies

List PR: 400 Seats Allocated to 11 Provinces

Simulation of
Distribution of
Electoral Seats:
Provincial
Level

*Expected amount of voters**

29.648.833

Hypothetical number of seats in parliament

400

Voters per seat

74.122

		Voters	Seats*	Seats**
1	KINSHASA	2.664.309	36	35
2	BAS CONGO	1.994.573	27	26
3	BANDUNDU	3.769.741	51	50
4	EQUATEUR	3.574.385	48	48
5	PROV ORIENTAL	4.314.672	58	58
6	MANIEMA	849.675	11	11
7	NORD KIVU	2.434.275	33	32
8	SUD KIVU	2.107.988	28	28
9	KATANGA	3.979.354	54	53
10	KASAI ORIENTAL	1.564.615	21	21
11	KASAI OCCIDENTAL	2.395.246	32	32

**simulations are based on the 1984 census data*

Seats : A seat assigned when more than 0.51% of 74.122 voters (Total seats assigned: 400)*

*Seats** : A seat assigned for each 74.122 voters (Total seats assigned: 394)*

List PR: 400 Seats Allocated to Constituencies

**Simulation of Distribution of
Electoral Seats:
District Level**

*Expected amount of voters** **29.648.833**
Hypothetical number of seats in parliament **400**
Voters per seat **74.122**

	Voters	Seats*	Seats**
KINSHASA	2.664.309	36	34
LUKUNGA	564.656	8	7
FUNA	764.620	10	10
MONT-AMBA	585.095	8	7
TSANGU	749.938	10	10
BAS CONGO	1.994.573	27	24
MATADI	138.798	2	1
BOMA	197.617	3	2
BAS-FLEUVE	551.391	7	7
CATARACTES	724.621	10	9
LUKAYA	382.146	5	5
BANDUNDU	3.769.741	51	48
BANDUDU	63.642	1	0

MAI-NDOMBE	735.393	10	9
KWILU	1.967.085	27	26
KIKWIT	149.296	2	2
KWANGO	854.325	12	11
EQUATEUR	3.574.385	48	44
MBANDAKA	137.291	2	1
EQUATEUR	498.007	7	6
SUD-UBANGI	1.003.877	14	13
ZONGO	18.366	0	0
NORD-UBANGI	527.874	7	7
MONGALA	723.499	10	9
TSHUAPA	665.471	9	8
PROV ORIENTAL	4.314.672	58	56
KISANGANI	317.581	4	4
TSHOPO	809.266	11	10
BAS-UELE	545.458	7	7
HAUT-UELE	893.111	12	12
ITURI	1.749.256	24	23
MANIEMA	849.675	11	11
MANIEMA	849.675	11	11
NORD KIVU	2.434.275	33	32
NORD-KIVU	2.434.275	33	32

SUD KIVU	2.107.988	28	28
BUKAVU	167.950	2	2
SUD-KIVU	1.940.038	26	26
KATANGA	3.979.354	54	50
LUBUMBASHI	564.830	8	7
LIKASI	213.862	3	2
KOLWEZI	416.122	6	5
LUALABA	358.099	5	4
HAUT-LOMAMI	891.021	12	12
TANGANICA	922.495	12	12
HAUT-SHABA	612.925	8	8
KASAI ORIENTAL	1.564.615	21	20
SANKURU	725.191	10	9
KABINDA	839.424	11	11
KASAI OCCIDENTAL	2.395.246	32	31
KANANGA	298.693	4	4
LULUA	999.770	13	13
KASAI	1.096.783	15	14

**simulations are based on the 1984 census data*

Seats : A seat assigned when more than 0.51% of 74.122 voters (Total seats assigned: 400)*

*Seats** : A seat assigned for each 74.122 voters (Total seats assigned: 378)*

List PR: 400 Seats Allocated to Territories

**Simulation of Distribution of
Electoral Seats:
Territorial Level**

*Expected amount of voters**

29.648.833

Hypothetical number of seats in parliament

400

Voters per seat

74.122

		Seats*	
		Voters	Seats*
1KINSHASA		2.664.309	36
	1	252.151	3
	2	49.297	1
	3	17.360	0
	4	69.147	1
	5	74.708	1
	6	49.173	1
	7	52.820	1
	8	126.589	2
	9	97.214	1
	10	74.888	1
	11	160.719	2
	12	82.303	1
	13	113.968	2

14	108.939	1	1
15	159.775	2	2
16	74.447	1	1
17	128.197	2	1
18	104.902	1	1
19	117.774	2	1
20	157.010	2	2
21	158.080	2	2
22	353.209	5	4
23	28.963	0	0
24	52.676	1	0

2BAS CONGO

	1.994.573	27	19
1	20.785	0	0
2	62.368	1	0
3	55.645	1	0
4	32.815	0	0
5	50.345	1	0
6	11.824	0	0
7	102.633	1	1
8	244.900	3	3
9	122.782	2	1
10	183.709	2	2
11	386.121	5	5
12	197.675	3	2
13	140.825	2	1
14	234.291	3	3

3BANDUNDU

15	92.956	1	1
16	54.899	1	0
	3.769.741	51	41
1	34.405	0	0
2	12.988	0	0
3	16.249	0	0
4	150.788	2	2
5	85.640	1	1
6	85.590	1	1
7	232.528	3	3
8	92.693	1	1
9	88.154	1	1
10	555.124	7	7
11	428.962	6	5
12	214.231	3	2
13	477.458	6	6
14	291.310	4	3
15	22.648	0	0
16	50.198	1	0
17	35.093	0	0
18	41.357	1	0
19	268.960	4	3
20	114.839	2	1
21	92.597	1	1
22	278.346	4	3
23	99.583	1	1

4EQUATEUR

	3.574.385	48	33
1	75.632	1	1
2	61.659	1	0
3	84.484	1	1
4	98.246	1	1
5	90.255	1	1
6	119.993	2	1
7	45.824	1	0
8	23.445	0	0
9	35.760	0	0
10	439.079	6	5
11	221.932	3	2
12	220.854	3	2
13	122.012	2	1
14	12.273	0	0
15	6.093	0	0
16	92.568	1	1
17	112.436	2	1
18	203.243	3	2
19	119.627	2	1
20	214.404	3	2
21	359.490	5	4
22	149.605	2	2
23	157.760	2	2
24	69.718	1	0
25	111.806	2	1

26	137.746	2	1
27	140.875	2	1
28	47.566	1	0

5PROV ORIENTAL

	4.314.672	58	42
1	64.664	1	0
2	31.662	0	0
3	67.378	1	0
4	62.298	1	0
5	62.622	1	0
6	28.957	0	0
7	91.226	1	1
8	59.646	1	0
9	119.637	2	1
10	110.411	1	1
11	245.548	3	3
12	65.927	1	0
13	116.871	2	1
14	74.972	1	1
15	93.434	1	1
16	116.538	2	1
17	48.862	1	0
18	99.419	1	1
19	112.233	2	1
20	215.679	3	2
21	60.138	1	0
22	122.499	2	1

	23	158.258	2	2
	24	109.269	1	1
	25	227.268	3	3
	26	295.107	4	3
	27	84.031	1	1
	28	551.137	7	7
	29	422.919	6	5
	30	396.062	5	5
6MANIEMA		849.675	11	8
	1	149.164	2	2
	2	56.017	1	0
	3	60.448	1	0
	4	52.907	1	0
	5	171.600	2	2
	6	246.959	3	3
	7	112.580	2	1
7NORD KIVU		2.434.275	33	30
	1	115.659	2	1
	2	137.065	2	1
	3	619.827	8	8
	4	604.210	8	8
	5	479.064	6	6
	6	478.450	6	6
8SUD KIVU		2.107.988	28	22

1	54.958	1	0
2	64.274	1	0
3	48.718	1	0
4	365.675	5	4
5	320.022	4	4
6	204.843	3	2
7	215.895	3	2
8	173.948	2	2
9	226.811	3	3
10	92.247	1	1
11	340.597	5	4

9KATANGA

	3.979.354	54	40
1	148.363	2	2
2	64.230	1	0
3	126.074	2	1
4	75.070	1	1
5	88.732	1	1
6	26.581	0	0
7	35.780	0	0
8	27.205	0	0
9	121.836	2	1
10	44.743	1	0
11	20.078	0	0
12	97.281	1	1
13	123.425	2	1
14	95.809	1	1

15	99.607	1	1
16	161.174	2	2
17	114.081	2	1
18	82.844	1	1
19	171.008	2	2
20	80.850	1	1
21	179.480	2	2
22	242.629	3	3
23	217.054	3	2
24	180.164	2	2
25	213.230	3	2
26	171.453	2	2
27	98.788	1	1
28	184.633	2	2
29	74.227	1	1
30	88.492	1	1
31	84.363	1	1
32	105.887	1	1
33	79.052	1	1
34	131.765	2	1
35	123.366	2	1

10KASAI ORIENTAL

	1.564.615	21	17
1	58.366	1	0
2	84.808	1	1
3	76.056	1	1
4	169.955	2	2

5	77.438	1	1
6	258.568	3	3
7	265.237	4	3
8	21.811	0	0
9	227.801	3	3
10	188.112	3	2
11	136.463	2	1

11KASAI OCCIDENTAL

	2.395.246	32	25
1	50.756	1	0
2	65.635	1	0
3	42.612	1	0
4	41.593	1	0
5	98.097	1	1
6	178.573	2	2
7	226.993	3	3
8	266.863	4	3
9	187.593	3	2
10	139.748	2	1
11	111.133	1	1
12	530.257	7	7
13	167.258	2	2
14	231.440	3	3
15	56.695	1	0

**simulations are based on the 1984 census data*

Seats : A seat assigned when more than 0.51% of 74.122 voters (Total seats assigned: 400)*

*Seats** : A seat assigned for each 74.122 voters (Total seats assigned: 303)*

**Mixed Member Proportional System:
200 Representatives from Territorial Level
Constituencies**

**Simulation of Distribution of
Electoral Seats:
Territorial Level**

<i>Expected amount of voters*</i>	29.648.833
<i>Hypothetical number of seats in parliament</i>	400
<i>Directly elected Representatives</i>	200
<i>Indirectly elected Representatives</i>	200
<i>Voters per seat</i>	148.244

Territories	Seats*	Seats**	
1	20.785	0	0
2	21.811	0	0
3	22.648	0	0
4	23.445	0	0
5	26.581	0	0
6	27.205	0	0
7	28.957	0	0
8	28.963	0	0
9	31.662	0	0
10	32.815	0	0
11	34.405	0	0
12	35.093	0	0

13	35.760	0	0
14	35.780	0	0
15	41.357	0	0
16	41.593	0	0
17	42.612	0	0
18	44.743	0	0
19	45.824	0	0
20	47.566	0	0
21	48.718	0	0
22	48.862	0	0
23	49.173	0	0
24	49.297	0	0
25	50.198	0	0
26	50.345	0	0
27	50.756	0	0
28	52.676	0	0
29	52.820	0	0
30	52.907	0	0
31	54.899	0	0
32	54.958	0	0
33	55.645	0	0
34	56.017	0	0
35	56.695	0	0
36	58.366	0	0
37	59.646	0	0
38	60.138	0	0
39	60.448	0	0
40	61.659	0	0

41	62.298	0	0
42	62.368	0	0
43	62.622	0	0
44	64.230	0	0
45	64.274	0	0
46	64.664	0	0
47	65.635	0	0
48	65.927	0	0
49	67.378	0	0
50	69.147	0	0
51	69.718	0	0
52	74.227	1	0
53	74.447	1	0
54	74.708	1	0
55	74.888	1	0
56	74.972	1	0
57	75.070	1	0
58	75.632	1	0
59	76.056	1	0
60	77.438	1	0
61	79.052	1	0
62	80.850	1	0
63	82.303	1	0
64	82.844	1	0
65	84.031	1	0
66	84.363	1	0
67	84.484	1	0
68	84.808	1	0

69	85.590	1	0
70	85.640	1	0
71	88.154	1	0
72	88.492	1	0
73	88.732	1	0
74	90.255	1	0
75	91.226	1	0
76	92.247	1	0
77	92.568	1	0
78	92.597	1	0
79	92.693	1	0
80	92.956	1	0
81	93.434	1	0
82	95.809	1	0
83	96.865	1	0
84	97.214	1	0
85	97.281	1	0
86	98.097	1	0
87	98.246	1	0
88	98.788	1	0
89	99.419	1	0
90	99.583	1	0
91	99.607	1	0
92	102.633	1	0
93	104.902	1	0
94	105.887	1	0
95	108.939	1	0
96	109.269	1	0

97	110.411	1	0
98	111.133	1	0
99	111.806	1	0
100	112.233	1	0
101	112.436	1	0
102	112.580	1	0
103	113.968	1	0
104	114.081	1	0
105	114.839	1	0
106	115.659	1	0
107	116.538	1	0
108	116.871	1	0
109	117.774	1	0
110	119.627	1	0
111	119.637	1	0
112	119.993	1	0
113	121.836	1	0
114	122.012	1	0
115	122.499	1	0
116	122.782	1	0
117	123.366	1	0
118	123.425	1	0
119	126.074	1	0
120	126.589	1	0
121	128.197	1	0
122	131.765	1	0
123	136.463	1	0
124	137.065	1	0

125	137.746	1	0
126	139.748	1	0
127	140.825	1	0
128	140.875	1	0
129	148.363	1	1
130	149.164	1	1
131	149.605	1	1
132	150.788	1	1
133	157.010	1	1
134	157.760	1	1
135	158.080	1	1
136	158.258	1	1
137	159.775	1	1
138	160.719	1	1
139	161.174	1	1
140	167.258	1	1
141	169.955	1	1
142	171.008	1	1
143	171.453	1	1
144	171.600	1	1
145	173.948	1	1
146	178.573	1	1
147	179.480	1	1
148	180.164	1	1
149	183.709	1	1
150	184.633	1	1
151	187.593	1	1
152	188.112	1	1

153	197.675	1	1
154	203.243	1	1
155	204.843	1	1
156	213.230	1	1
157	214.231	1	1
158	214.404	1	1
159	215.679	1	1
160	215.895	1	1
161	217.054	1	1
162	220.854	1	1
163	221.932	1	1
164	226.811	2	1
165	226.993	2	1
166	227.268	2	1
167	227.801	2	1
168	231.440	2	1
169	232.528	2	1
170	234.291	2	1
171	242.629	2	1
172	244.900	2	1
173	245.548	2	1
174	246.959	2	1
175	252.151	2	1
176	258.568	2	1
177	265.237	2	1
178	266.863	2	1
179	268.960	2	1
180	278.346	2	1

181	291.310	2	1
182	295.107	2	1
183	320.022	2	2
184	340.597	2	2
185	353.209	2	2
186	359.490	2	2
187	365.675	2	2
188	386.121	3	2
189	396.062	3	2
190	422.919	3	2
191	428.962	3	2
192	439.079	3	2
193	477.458	3	3
194	478.450	3	3
195	479.064	3	3
196	530.257	4	3
197	551.137	4	3
198	555.124	4	3
199	604.210	4	4
200	619.827	4	4

**simulations are based on the 1984 census data*

Seats : A seat assigned when more than 0.51% of 148.244 voters (Total seats assigned: 200)*

*Seats** : A seat assigned for each 148.244 voters (Total seats assigned: 101)*