La procédure CONTENTS

Nom de la table	TPCAH.KEHR70FL_C	**Observations**	47
Type de membre	DATA	**Variables**	17
Moteur	V9	**Index**	0
Créée	17/11/2016 22:40:16	**Longueur d'observation**	152
Dernière modification	17/11/2016 22:40:16	**Observations supprimées**	0
Protection		**Compressée**	NO
Type de table		**Triée**	NO
Libellé			
Représentation des données	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Codage	utf-8 Unicode (UTF-8)		

Informations dépendantes de la machine/de l'hôte	
Taille de la page	131072
Nombre de pages	1
Première page de données	1
Nb max. d'obs. par page	861
Obs. sur première page de données	47
Nombre de corrections dans la table	0
Nom du fichier	C:\Users\Lokman\Desktop\M1 MASS COMPLET_STATISTIQUE EXPLORATOIRE MULTIVARIE\Classification\TP Classification Hierarchique ascendante\Data\kehr70fl_c.sas7bdat
Version de création	9.0401M3
Hôte de création	Linux
Nom du propriétaire	lok\Lokman
Taille du fichier	256KB
Taille de fichier (octets)	262144

Liste alphabétique des variables et des attributs				
#	**Variable**	**Type**	**Long.**	**Libellé**
1	county	Texte	20	county
12	having_bed_f	Num.	8	
17	having_cdplayer_f	Num.	8	
10	having_chair_f	Num.	8	
14	having_clock_f	Num.	8	
13	having_cupboard_f	Num.	8	
16	having_dvdplayer_f	Num.	8	
2	having_electricity_f	Num.	8	
6	having_landlinephone_f	Num.	8	

La procédure CONTENTS

Liste alphabétique des variables et des attributs				
#	Variable	Type	Long.	Libellé
15	having_microwave_f	Num.	8	
7	having_mobilephone_f	Num.	8	
3	having_radio_f	Num.	8	
5	having_refrigirator_f	Num.	8	
11	having_sofa_f	Num.	8	
8	having_solarpanel_f	Num.	8	
9	having_table_f	Num.	8	
4	having_television_f	Num.	8	

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

Obs.	county	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
1	Nairobi	0.87661	0.74677	0.68871	0.17258	0.010501
2	Nyandarua	0.23262	0.83155	0.36364	0.01872	0.001339
3	Nyeri	0.49238	0.83705	0.54279	0.07042	0.005869
4	Kirinyaga	0.33246	0.74707	0.40808	0.04694	0.002611
5	Murang'a	0.33492	0.79976	0.33254	0.03218	0.001193
6	Kiambu	0.67266	0.82854	0.59664	0.12470	0.004819
7	Mombasa	0.76332	0.68204	0.60745	0.16230	0.007673
8	Kwale	0.21170	0.47303	0.19695	0.07607	0.004155
9	Kilifi	0.30886	0.45765	0.24335	0.07098	0.003817
10	Tana River	0.06171	0.37868	0.08696	0.02104	0.001403
11	Lamu	0.36011	0.59684	0.30703	0.10760	0.005764

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
1	0.97579	0.01454	0.90234	0.69355	0.66074	0.95803
2	0.91968	0.23930	0.92380	0.91979	0.69786	0.97727
3	0.94490	0.13599	0.95780	0.95311	0.82649	0.99179
4	0.89164	0.13072	0.89439	0.78879	0.76632	0.97908
5	0.88558	0.11483	0.94279	0.93087	0.64601	0.99285
6	0.92806	0.05042	0.93517	0.92206	0.83914	0.97959
7	0.95409	0.01259	0.77556	0.62735	0.60924	0.91791
8	0.82271	0.06925	0.65422	0.81189	0.24654	0.88243
9	0.83016	0.06003	0.69708	0.84304	0.24810	0.91266
10	0.73034	0.06452	0.35484	0.35484	0.08873	0.69058
11	0.86370	0.17217	0.64849	0.70445	0.27977	0.90387

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
1	0.57789	0.30670	0.11542	0.51251	0.21890
2	0.70281	0.23190	0.00804	0.20884	0.10977
3	0.76553	0.30012	0.03869	0.35446	0.22978
4	0.63791	0.22193	0.02876	0.25849	0.10574
5	0.74463	0.24553	0.01788	0.21812	0.08820
6	0.74880	0.35379	0.07212	0.41707	0.21609
7	0.43781	0.27591	0.07431	0.44900	0.25843
8	0.19779	0.13140	0.03320	0.13693	0.08990
9	0.23418	0.11660	0.02025	0.16456	0.10759
10	0.10098	0.03230	0.00421	0.06452	0.02805
11	0.34483	0.20000	0.01724	0.20977	0.09770

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

Obs.	county	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
12	Taita Taveta	0.33782	0.64785	0.28629	0.06317	0.006729
13	Marsabit	0.24823	0.32766	0.19149	0.02128	0.012766
14	Isiolo	0.22069	0.38567	0.21488	0.03310	0.004132
15	Meru	0.28808	0.62338	0.30106	0.04615	0.001182
16	Tharaka	0.14670	0.62719	0.20458	0.01482	0.006729
17	Embu	0.28205	0.72308	0.32564	0.05641	0.003851
18	Kitui	0.11411	0.59387	0.12393	0.02577	0.002454
19	Machakos	0.20595	0.73333	0.24524	0.02143	0.002387
20	Makueni	0.11180	0.68696	0.15031	0.01244	0.001242
21	Garissa	0.22151	0.29535	0.15620	0.05939	0.001605
22	Wajir	0.18707	0.37755	0.13118	0.05952	0.003407

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
12	0.88022	0.11306	0.84812	0.83199	0.42070	0.95699
13	0.54752	0.04965	0.39858	0.44255	0.28835	0.57872
14	0.63085	0.06336	0.61157	0.61846	0.39669	0.89379
15	0.85360	0.15466	0.85242	0.66194	0.53428	0.97285
16	0.77224	0.17497	0.80054	0.80728	0.36070	0.98381
17	0.85751	0.14396	0.89487	0.86026	0.58077	0.97176
18	0.83313	0.13252	0.85890	0.97423	0.28221	0.95460
19	0.89762	0.16786	0.92024	0.92381	0.57857	0.97619
20	0.88696	0.17786	0.89814	0.96522	0.41915	0.98261
21	0.74277	0.04173	0.42512	0.50562	0.16908	0.94864
22	0.64225	0.03077	0.38095	0.34014	0.13311	0.87925

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
12	0.42665	0.21371	0.02554	0.21237	0.10484
13	0.15177	0.06241	0.00993	0.07801	0.02128
14	0.26483	0.07034	0.02621	0.11448	0.07448
15	0.40260	0.13254	0.02834	0.18064	0.05785
16	0.37416	0.13612	0.00538	0.10229	0.07537
17	0.56282	0.22336	0.03462	0.20026	0.08205
18	0.29080	0.13374	0.00859	0.07975	0.04663
19	0.56548	0.28282	0.01786	0.12992	0.11429
20	0.46517	0.17910	0.00497	0.09441	0.09441
21	0.15249	0.04823	0.00482	0.06260	0.04976
22	0.07143	0.01190	0.00170	0.04762	0.03401

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

Obs.	county	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
23	Mandera	0.13777	0.29147	0.09443	0.03101	0.004651
24	Siaya	0.12484	0.69039	0.18773	0.02497	0.004994
25	Kisumu	0.34913	0.78304	0.36704	0.09102	0.003745
26	Migori	0.07570	0.63936	0.15931	0.01222	0.002451
27	Homa Bay	0.10526	0.66083	0.18296	0.01252	0.008761
28	Kisii	0.28047	0.65680	0.27844	0.02607	0.000000
29	Nyamira	0.21204	0.71351	0.24966	0.01501	0.001366
30	Turkana	0.04082	0.08601	0.04519	0.01312	0.001458
31	West Pokot	0.10856	0.40520	0.10398	0.00000	0.003058
32	Samburu	0.17077	0.35022	0.13748	0.02171	0.004354
33	Trans Nzoia	0.22319	0.65960	0.26060	0.02996	0.002497

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
23	0.52477	0.01866	0.52950	0.60217	0.09457	0.96904
24	0.79526	0.11404	0.93375	0.96754	0.60701	0.93258
25	0.88903	0.07268	0.93641	0.96010	0.55860	0.92643
26	0.78755	0.09717	0.91054	0.94492	0.43941	0.91299
27	0.82080	0.16186	0.94493	0.95995	0.62328	0.93617
28	0.83787	0.06991	0.95616	0.92071	0.63314	0.98460
29	0.90314	0.12363	0.96038	0.97131	0.56772	0.98497
30	0.33139	0.03644	0.16910	0.23761	0.07872	0.16350
31	0.60550	0.06269	0.72171	0.83945	0.35321	0.92813
32	0.62518	0.04920	0.37192	0.71925	0.21563	0.79305
33	0.84500	0.13065	0.89638	0.73750	0.69202	0.91635

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
23	0.07895	0.04644	0.00000	0.03411	0.03411
24	0.45044	0.25282	0.01252	0.08636	0.09262
25	0.46633	0.26467	0.03616	0.24688	0.18703
26	0.29779	0.11369	0.00489	0.08791	0.05006
27	0.36295	0.14160	0.01126	0.08135	0.04506
28	0.44260	0.12189	0.01065	0.17633	0.08876
29	0.48295	0.10656	0.00956	0.09973	0.03142
30	0.05394	0.01749	0.00146	0.01749	0.01166
31	0.18224	0.04128	0.00459	0.05505	0.03517
32	0.14038	0.03184	0.01447	0.09565	0.01887
33	0.41698	0.17419	0.01247	0.15337	0.10112

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

Obs.	county	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
34	Baringo	0.17800	0.59130	0.19247	0.01013	0.004342
35	Uasin Gishu	0.35330	0.72372	0.35819	0.04034	0.008557
36	Keiyo-Marakwet	0.19502	0.67082	0.19668	0.00831	0.001383
37	Nandi	0.17375	0.71429	0.24196	0.01544	0.002574
38	Laikipia	0.32341	0.73478	0.37212	0.04743	0.008152
39	Nakuru	0.48283	0.78540	0.43300	0.06556	0.003337
40	Narok	0.16976	0.70136	0.16853	0.02107	0.002478
41	Kajiado	0.52078	0.65974	0.41169	0.13766	0.009091
42	Kericho	0.19945	0.68269	0.20770	0.03297	0.002751
43	Bomet	0.08345	0.70755	0.13108	0.01348	0.001351
44	Kakamega	0.16705	0.69565	0.25515	0.03436	0.004587

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
34	0.70478	0.12899	0.70930	0.76087	0.43687	0.92899
35	0.89487	0.16034	0.90954	0.89976	0.63936	0.93513
36	0.77455	0.11096	0.86445	0.92669	0.56510	0.92788
37	0.82625	0.13256	0.89318	0.92021	0.59588	0.89447
38	0.88753	0.18293	0.82273	0.55886	0.64722	0.88633
39	0.89712	0.09677	0.89567	0.93341	0.62819	0.96120
40	0.83891	0.11677	0.73358	0.83271	0.35192	0.92813
41	0.88312	0.05859	0.72078	0.81818	0.55974	0.94805
42	0.83356	0.09066	0.83379	0.94231	0.40276	0.89546
43	0.83962	0.16285	0.86810	0.94616	0.41375	0.92867
44	0.85126	0.15235	0.92105	0.91304	0.53608	0.94960

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
34	0.30580	0.07692	0.00290	0.11014	0.07391
35	0.50367	0.21149	0.02812	0.16504	0.06235
36	0.39696	0.11757	0.00970	0.12172	0.08575
37	0.42600	0.14839	0.01287	0.12484	0.09536
38	0.58999	0.17886	0.02710	0.24899	0.06495
39	0.56889	0.19978	0.04783	0.27920	0.10591
40	0.33086	0.07435	0.01363	0.14374	0.11896
41	0.42987	0.22338	0.08312	0.33636	0.11558
42	0.37689	0.12672	0.01099	0.11676	0.09904
43	0.31402	0.08907	0.00270	0.07412	0.05660
44	0.47079	0.22311	0.01945	0.12586	0.07780

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

Obs.	county	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
45	Vihiga	0.15252	0.73184	0.22884	0.02384	0.003974
46	Bungoma	0.12438	0.63547	0.20222	0.01852	0.009864
47	Busia	0.10567	0.57216	0.17290	0.02062	0.005155

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
45	0.83884	0.07190	0.97351	0.98151	0.55159	0.94709
46	0.81874	0.13333	0.90887	0.96429	0.44212	0.91739
47	0.79974	0.06323	0.88903	0.91366	0.57732	0.92258

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
45	0.60502	0.24306	0.00528	0.08851	0.07530
46	0.38177	0.15148	0.00739	0.09975	0.06527
47	0.34452	0.18428	0.00389	0.09419	0.07355

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

La procédure CLUSTER
Analyse de classification de la distance minimale de Ward

Variable	Moyenne	Ecart-type	Skewness	Kurtosis	Bimodalité
having_electricity_f	0.2568	0.1766	1.7732	3.5142	0.6167
having_radio_f	0.6158	0.1684	-1.1879	0.9717	0.5771
having_television_f	0.2626	0.1411	1.2288	1.4485	0.5393
having_refrigirator_f	0.0443	0.0402	1.7349	2.6776	0.6815
having_landlinephone_f	0.00427	0.00288	1.0248	0.6094	0.5373
having_mobilephone_f	0.8074	0.1251	-1.7745	3.8096	0.5914
having_solarpanel_f	0.1046	0.0528	0.1593	-0.5951	0.3927
having_table_f	0.7840	0.1982	-1.4874	1.3947	0.6982
having_chair_f	0.8011	0.1885	-1.3830	1.2676	0.6511
having_sofa_f	0.4741	0.1959	-0.3768	-0.5823	0.4353
having_bed_f	0.9086	0.1332	-4.3786	22.2034	0.7939
having_cupboard_f	0.3966	0.1836	0.0435	-0.4346	0.3615
having_clock_f	0.1590	0.0857	0.1423	-0.7559	0.4164
having_microwave_f	0.0211	0.0236	2.2635	5.6842	0.6888
having_dvdplayer_f	0.1609	0.1095	1.4951	2.1013	0.6096
having_cdplayer_f	0.0888	0.0549	1.4539	2.2803	0.5676

	Valeurs propres de la matrice de corrélation			
	Valeur propre	**Différence**	**Proportion**	**Cumulé**
1	8.99925182	5.18937095	0.5625	0.5625
2	3.80988087	2.93793636	0.2381	0.8006
3	0.87194451	0.13941516	0.0545	0.8551
4	0.73252934	0.21984102	0.0458	0.9009
5	0.51268832	0.19930892	0.0320	0.9329
6	0.31337940	0.10913147	0.0196	0.9525
7	0.20424793	0.03865321	0.0128	0.9652
8	0.16559471	0.04488884	0.0103	0.9756
9	0.12070587	0.03129385	0.0075	0.9831
10	0.08941202	0.03253516	0.0056	0.9887
11	0.05687686	0.01149985	0.0036	0.9923
12	0.04537701	0.00880467	0.0028	0.9951
13	0.03657234	0.01790808	0.0023	0.9974
14	0.01866426	0.00470736	0.0012	0.9986

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

La procédure CLUSTER
Analyse de classification de la distance minimale de Ward

	Valeur propre	Différence	Proportion	Cumulé
	Valeurs propres de la matrice de corrélation			
15	0.01395690	0.00503906	0.0009	0.9994
16	0.00891784		0.0006	1.0000

Les données ont été standardisées à la moyenne 0 et la variance 1

Racine carrée de la moyenne des écarts-types au carré sur tout l'échantillon	1

Distance de la racine carrée de la moyenne entre les observations	5.656854

Nombre de clusters	Clusters jointes		Fréq	R carré semi-partiel	R carré	Loi de pseudo F du rang signé	Pseudo t-carré	Lien
	Historique des classifications							
46	Keiyo-Marakwet	Nandi	2	0.0007	.999	31.5	.	
45	Kwale	Kilifi	2	0.0008	.999	30.6	.	
44	Homa Bay	Bungoma	2	0.0011	.997	26.8	.	
43	Siaya	Kakamega	2	0.0012	.996	25.1	.	
42	Kitui	Migori	2	0.0012	.995	24.2	.	
41	Narok	Kericho	2	0.0012	.994	23.9	.	
40	CL42	Bomet	3	0.0015	.992	23.0	1.2	
39	Kirinyaga	Embu	2	0.0017	.991	22.0	.	
38	Trans Nzoia	CL46	3	0.0020	.988	20.9	2.8	
37	Garissa	Wajir	2	0.0020	.986	20.2	.	
36	Tharaka	Baringo	2	0.0021	.984	19.8	.	
35	CL43	Vihiga	3	0.0023	.982	19.4	1.9	
34	CL39	Murang'a	3	0.0024	.980	19.0	1.4	
33	Kisii	Nyamira	2	0.0026	.977	18.7	.	
32	Machakos	Makueni	2	0.0028	.974	18.4	.	
31	Taita Taveta	Uasin Gishu	2	0.0030	.971	18.1	.	
30	CL35	Busia	4	0.0034	.968	17.7	2.0	
29	CL33	CL38	5	0.0034	.964	17.5	2.0	
28	Kisumu	Nakuru	2	0.0035	.961	17.4	.	
27	Mandera	Samburu	2	0.0036	.957	17.3	.	
26	Isiolo	West Pokot	2	0.0038	.954	17.2	.	
25	CL40	CL41	5	0.0045	.949	17.1	3.4	
24	Meru	CL29	6	0.0049	.944	16.9	2.2	

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

La procédure CLUSTER
Analyse de classification de la distance minimale de Ward

Nombre de clusters	Clusters jointes		Fréq	R carré semi-partiel	R carré	Loi de pseudo F du rang signé	Pseudo t-carré	Lien
23	CL31	Laikipia	3	0.0049	.939	16.9	1.6	
22	Nairobi	Mombasa	2	0.0049	.934	17.0	.	
21	Tana River	CL37	3	0.0050	.929	17.1	2.4	
20	Nyeri	Kiambu	2	0.0059	.924	17.2	.	
19	CL26	CL27	4	0.0059	.918	17.3	1.6	
18	Nyandarua	CL32	3	0.0060	.912	17.6	2.2	
17	CL36	CL25	7	0.0064	.905	17.9	3.0	
16	CL34	CL28	5	0.0072	.898	18.2	2.9	
15	Lamu	CL23	4	0.0078	.890	18.5	2.0	
14	CL30	CL44	6	0.0089	.881	18.9	4.4	
13	CL21	CL19	7	0.0133	.868	18.6	3.3	
12	CL18	CL24	9	0.0138	.854	18.6	4.3	
11	CL22	Kajiado	3	0.0150	.839	18.8	3.0	
10	CL45	CL17	9	0.0167	.823	19.1	6.6	
9	CL16	CL15	9	0.0184	.804	19.5	4.2	
8	CL12	CL14	15	0.0200	.784	20.2	4.9	
7	CL13	Marsabit	8	0.0213	.763	21.4	3.8	
6	CL11	CL20	5	0.0252	.738	23.0	2.9	
5	CL8	CL10	24	0.0290	.709	25.5	5.9	
4	CL7	Turkana	9	0.0512	.657	27.5	6.5	
3	CL5	CL9	33	0.0574	.600	33.0	9.6	
2	CL6	CL3	38	0.2526	.347	23.9	31.0	
1	CL2	CL4	47	0.3473	.000	.	23.9	

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

La procédure CLUSTER
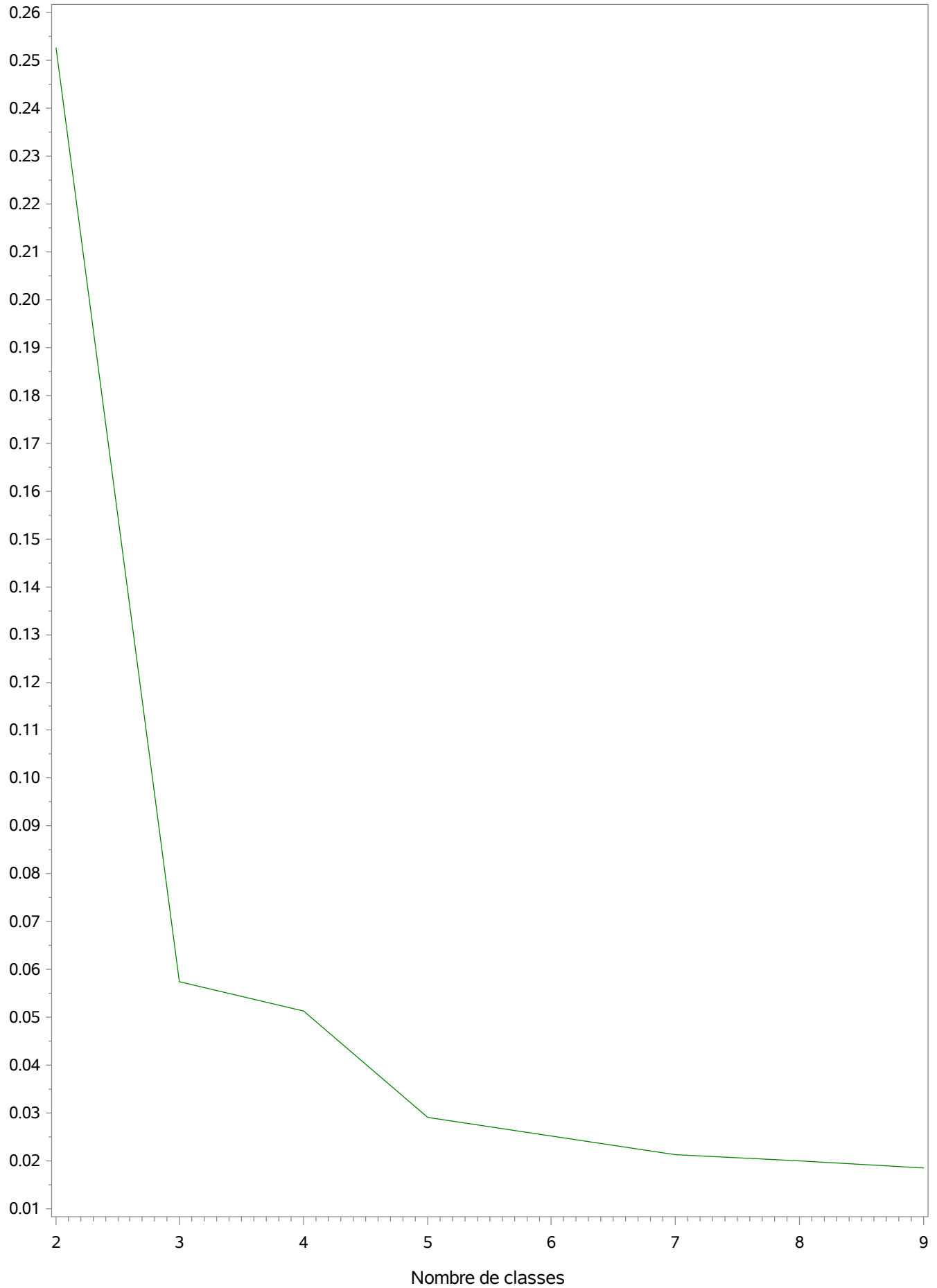**Analyse de classification de la distance minimale de Ward**

Critères pour le nombre de classes
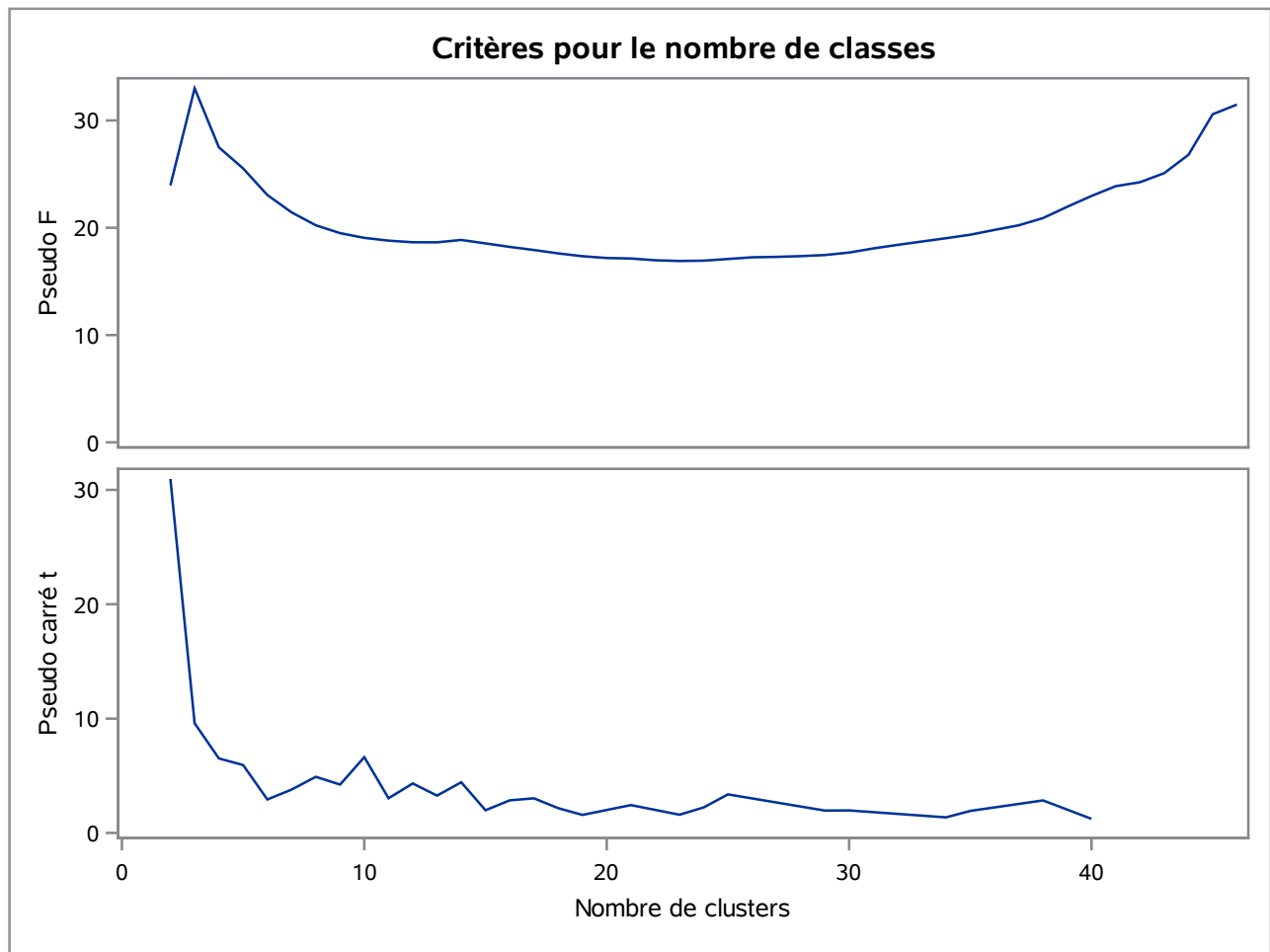
TP : Classification Ascendante Hiérarchique des counties, méthode = ward

La procédure CLUSTER
Analyse de classification de la distance minimale de Ward

Analyse de classification
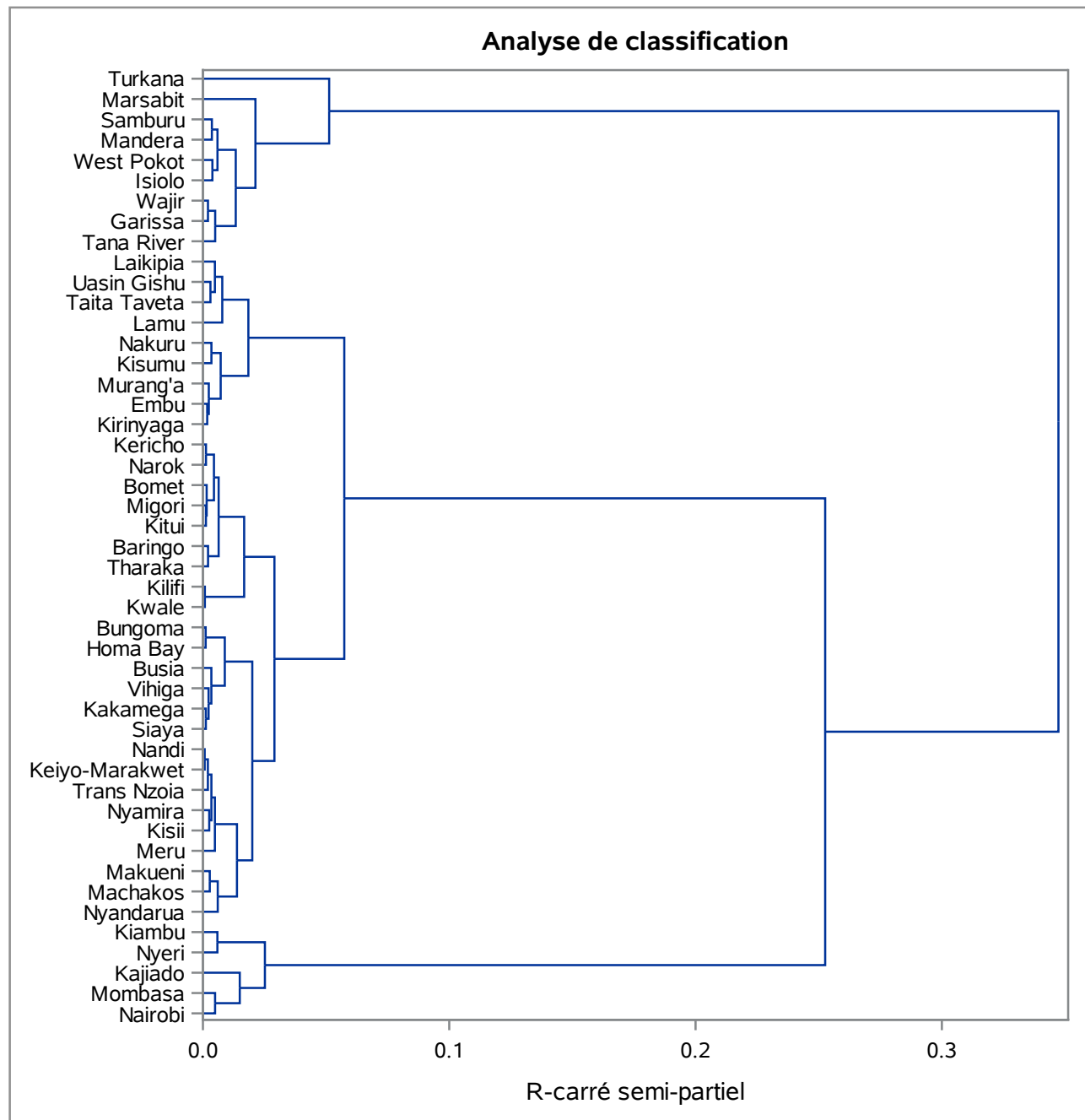
R-carré semi-partiel

TP : Classification Ascendante Hiérarchique des counties, méthode = ward
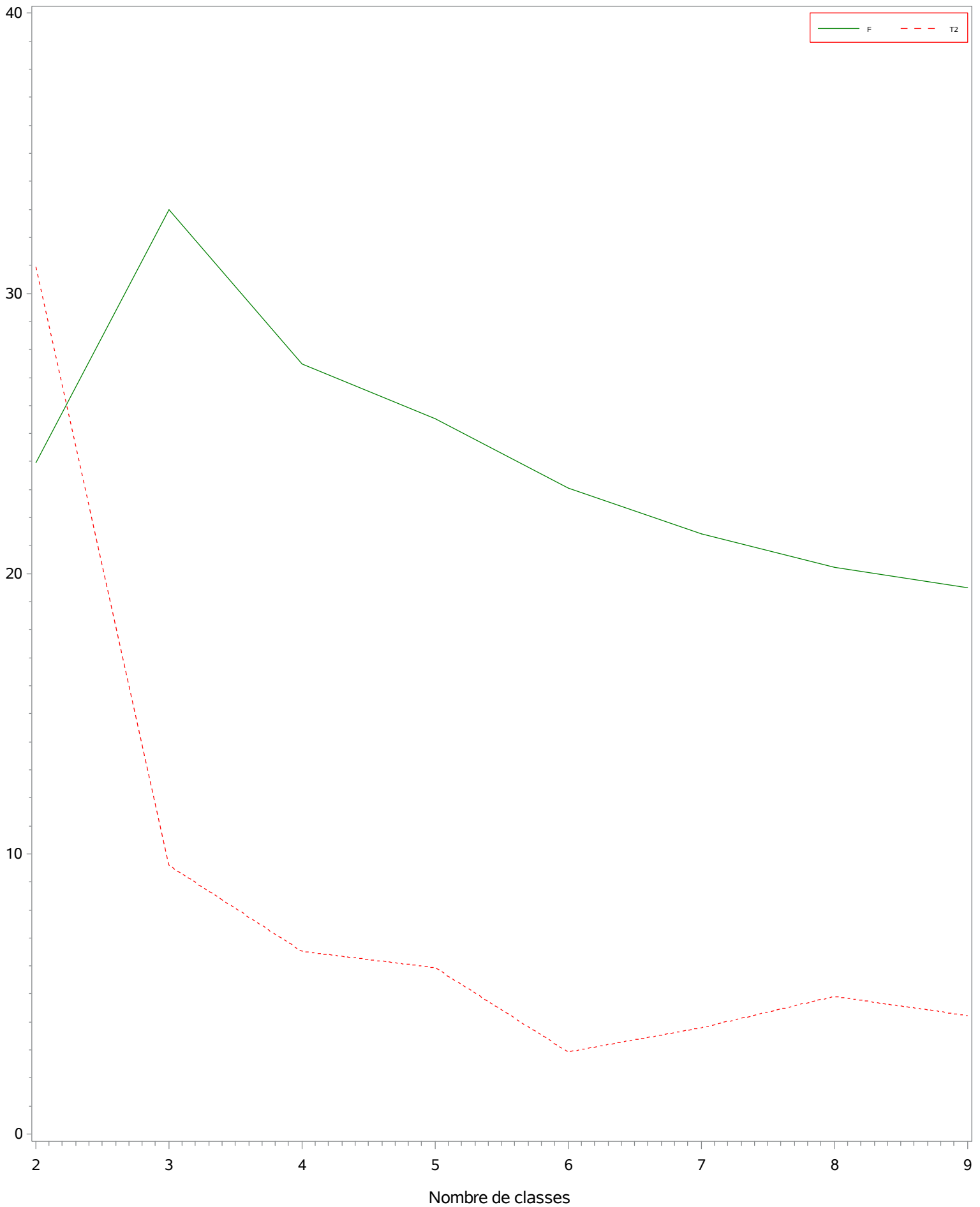
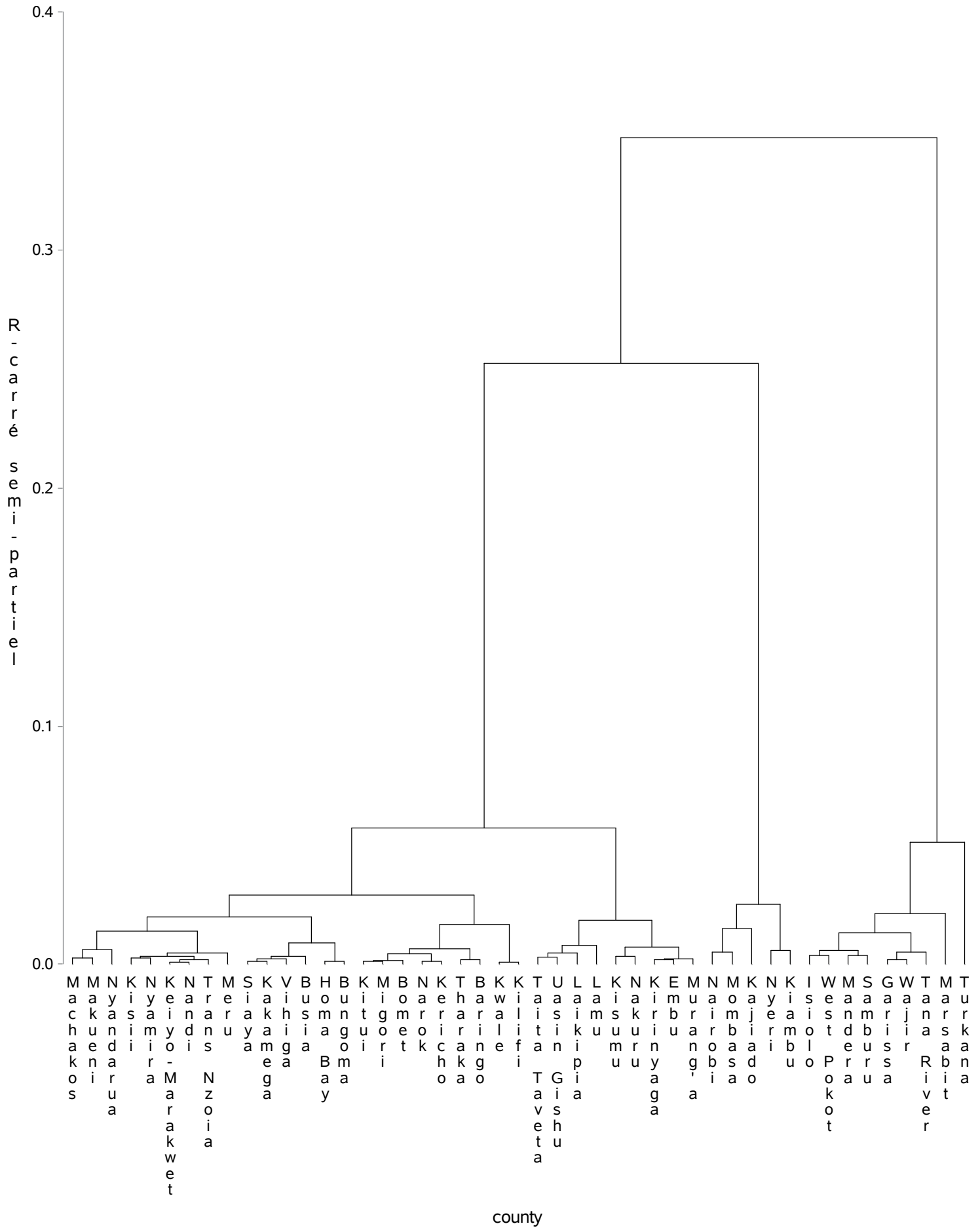R-carré semi-partiel

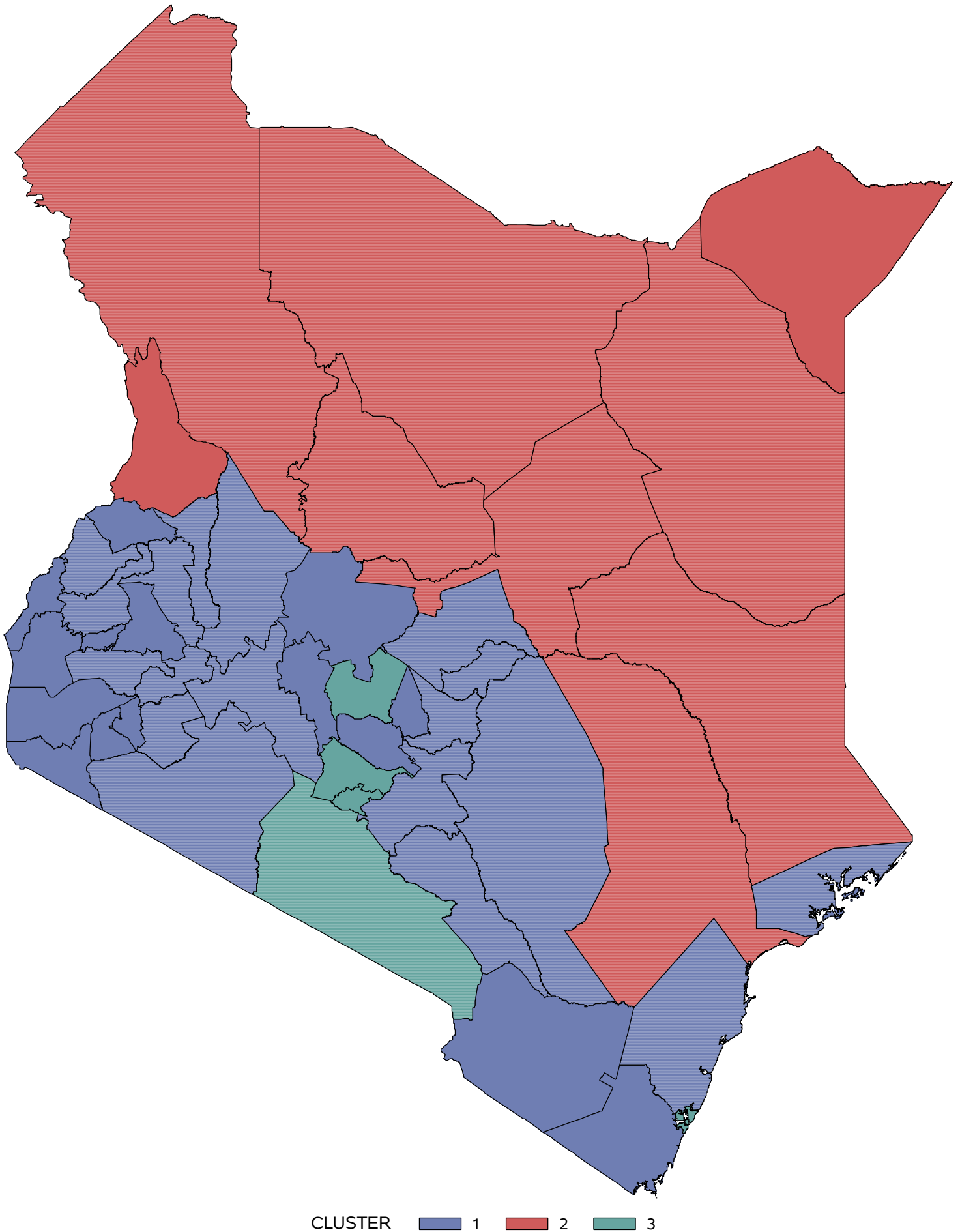Nombre de classes

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

Nombre de classes

TP : Classification Ascendante Hiérarchique des counties, méthode = ward

R - carré semi - partiel

county

Distribution des classes au Kénya

CLUSTER   1   2   3

CLUSTER=1

Obs.	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
1	0.19502	0.67082	0.19668	0.00831	.001383126
2	0.17375	0.71429	0.24196	0.01544	.002574003
3	0.21170	0.47303	0.19695	0.07607	.004155125
4	0.30886	0.45765	0.24335	0.07098	.003816794
5	0.10526	0.66083	0.18296	0.01252	.008760951
6	0.12438	0.63547	0.20222	0.01852	.009864365
7	0.12484	0.69039	0.18773	0.02497	.004993758
8	0.16705	0.69565	0.25515	0.03436	.004587156
9	0.11411	0.59387	0.12393	0.02577	.002453988
10	0.07570	0.63936	0.15931	0.01222	.002450980
11	0.16976	0.70136	0.16853	0.02107	.002478315

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
1	0.77455	0.11096	0.86445	0.92669	0.56510	0.92788
2	0.82625	0.13256	0.89318	0.92021	0.59588	0.89447
3	0.82271	0.06925	0.65422	0.81189	0.24654	0.88243
4	0.83016	0.06003	0.69708	0.84304	0.24810	0.91266
5	0.82080	0.16186	0.94493	0.95995	0.62328	0.93617
6	0.81874	0.13333	0.90887	0.96429	0.44212	0.91739
7	0.79526	0.11404	0.93375	0.96754	0.60701	0.93258
8	0.85126	0.15235	0.92105	0.91304	0.53608	0.94960
9	0.83313	0.13252	0.85890	0.97423	0.28221	0.95460
10	0.78755	0.09717	0.91054	0.94492	0.43941	0.91299
11	0.83891	0.11677	0.73358	0.83271	0.35192	0.92813

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
1	0.39696	0.11757	0.009695	0.12172	0.08575
2	0.42600	0.14839	0.012870	0.12484	0.09536
3	0.19779	0.13140	0.033195	0.13693	0.08990
4	0.23418	0.11660	0.020253	0.16456	0.10759
5	0.36295	0.14160	0.011264	0.08135	0.04506
6	0.38177	0.15148	0.007389	0.09975	0.06527
7	0.45044	0.25282	0.012516	0.08636	0.09262
8	0.47079	0.22311	0.019451	0.12586	0.07780
9	0.29080	0.13374	0.008589	0.07975	0.04663
10	0.29779	0.11369	0.004890	0.08791	0.05006
11	0.33086	0.07435	0.013631	0.14374	0.11896

CLUSTER=1

Obs.	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
12	0.19945	0.68269	0.20770	0.03297	.002751032
13	0.08345	0.70755	0.13108	0.01348	.001351351
14	0.33246	0.74707	0.40808	0.04694	.002610966
15	0.28205	0.72308	0.32564	0.05641	.003851091
16	0.22319	0.65960	0.26060	0.02996	.002496879
17	0.14670	0.62719	0.20458	0.01482	.006729475
18	0.17800	0.59130	0.19247	0.01013	.004341534
19	0.15252	0.73184	0.22884	0.02384	.003973510
20	0.33492	0.79976	0.33254	0.03218	.001193317
21	0.28047	0.65680	0.27844	0.02607	0
22	0.21204	0.71351	0.24966	0.01501	.001366120

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
12	0.83356	0.09066	0.83379	0.94231	0.40276	0.89546
13	0.83962	0.16285	0.86810	0.94616	0.41375	0.92867
14	0.89164	0.13072	0.89439	0.78879	0.76632	0.97908
15	0.85751	0.14396	0.89487	0.86026	0.58077	0.97176
16	0.84500	0.13065	0.89638	0.73750	0.69202	0.91635
17	0.77224	0.17497	0.80054	0.80728	0.36070	0.98381
18	0.70478	0.12899	0.70930	0.76087	0.43687	0.92899
19	0.83884	0.07190	0.97351	0.98151	0.55159	0.94709
20	0.88558	0.11483	0.94279	0.93087	0.64601	0.99285
21	0.83787	0.06991	0.95616	0.92071	0.63314	0.98460
22	0.90314	0.12363	0.96038	0.97131	0.56772	0.98497

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
12	0.37689	0.12672	0.010989	0.11676	0.09904
13	0.31402	0.08907	0.002695	0.07412	0.05660
14	0.63791	0.22193	0.028758	0.25849	0.10574
15	0.56282	0.22336	0.034615	0.20026	0.08205
16	0.41698	0.17419	0.012469	0.15337	0.10112
17	0.37416	0.13612	0.005384	0.10229	0.07537
18	0.30580	0.07692	0.002903	0.11014	0.07391
19	0.60502	0.24306	0.005284	0.08851	0.07530
20	0.74463	0.24553	0.017878	0.21812	0.08820
21	0.44260	0.12189	0.010651	0.17633	0.08876
22	0.48295	0.10656	0.009563	0.09973	0.03142

CLUSTER=1

Obs.	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
23	0.20595	0.73333	0.24524	0.02143	.002386635
24	0.11180	0.68696	0.15031	0.01244	.001242236
25	0.33782	0.64785	0.28629	0.06317	.006729475
26	0.35330	0.72372	0.35819	0.04034	.008557457
27	0.10567	0.57216	0.17290	0.02062	.005154639
28	0.34913	0.78304	0.36704	0.09102	.003745318
29	0.48283	0.78540	0.43300	0.06556	.003337041
30	0.28808	0.62338	0.30106	0.04615	.001182033
31	0.32341	0.73478	0.37212	0.04743	.008152174
32	0.23262	0.83155	0.36364	0.01872	.001338688
33	0.36011	0.59684	0.30703	0.10760	.005763689

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
23	0.89762	0.16786	0.92024	0.92381	0.57857	0.97619
24	0.88696	0.17786	0.89814	0.96522	0.41915	0.98261
25	0.88022	0.11306	0.84812	0.83199	0.42070	0.95699
26	0.89487	0.16034	0.90954	0.89976	0.63936	0.93513
27	0.79974	0.06323	0.88903	0.91366	0.57732	0.92258
28	0.88903	0.07268	0.93641	0.96010	0.55860	0.92643
29	0.89712	0.09677	0.89567	0.93341	0.62819	0.96120
30	0.85360	0.15466	0.85242	0.66194	0.53428	0.97285
31	0.88753	0.18293	0.82273	0.55886	0.64722	0.88633
32	0.91968	0.23930	0.92380	0.91979	0.69786	0.97727
33	0.86370	0.17217	0.64849	0.70445	0.27977	0.90387

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
23	0.56548	0.28282	0.017857	0.12992	0.11429
24	0.46517	0.17910	0.004969	0.09441	0.09441
25	0.42665	0.21371	0.025538	0.21237	0.10484
26	0.50367	0.21149	0.028117	0.16504	0.06235
27	0.34452	0.18428	0.003886	0.09419	0.07355
28	0.46633	0.26467	0.036160	0.24688	0.18703
29	0.56889	0.19978	0.047831	0.27920	0.10591
30	0.40260	0.13254	0.028335	0.18064	0.05785
31	0.58999	0.17886	0.027100	0.24899	0.06495
32	0.70281	0.23190	0.008043	0.20884	0.10977
33	0.34483	0.20000	0.017241	0.20977	0.09770

CLUSTER=2

Obs.	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
34	0.22151	0.29535	0.15620	0.059390	0.001605
35	0.18707	0.37755	0.13118	0.059524	0.003407
36	0.13777	0.29147	0.09443	0.031008	0.004651
37	0.17077	0.35022	0.13748	0.021708	0.004354
38	0.22069	0.38567	0.21488	0.033103	0.004132
39	0.10856	0.40520	0.10398	0.000000	0.003058
40	0.06171	0.37868	0.08696	0.021038	0.001403
41	0.24823	0.32766	0.19149	0.021277	0.012766
42	0.04082	0.08601	0.04519	0.013120	0.001458

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
34	0.74277	0.041734	0.42512	0.50562	0.16908	0.94864
35	0.64225	0.030769	0.38095	0.34014	0.13311	0.87925
36	0.52477	0.018663	0.52950	0.60217	0.09457	0.96904
37	0.62518	0.049204	0.37192	0.71925	0.21563	0.79305
38	0.63085	0.063361	0.61157	0.61846	0.39669	0.89379
39	0.60550	0.062691	0.72171	0.83945	0.35321	0.92813
40	0.73034	0.064516	0.35484	0.35484	0.08873	0.69058
41	0.54752	0.049645	0.39858	0.44255	0.28835	0.57872
42	0.33139	0.036443	0.16910	0.23761	0.07872	0.16350

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
34	0.15249	0.048232	0.004815	0.06260	0.049759
35	0.07143	0.011905	0.001701	0.04762	0.034014
36	0.07895	0.046440	0.000000	0.03411	0.034109
37	0.14038	0.031838	0.014472	0.09565	0.018868
38	0.26483	0.070345	0.026207	0.11448	0.074483
39	0.18224	0.041284	0.004587	0.05505	0.035168
40	0.10098	0.032303	0.004208	0.06452	0.028050
41	0.15177	0.062411	0.009929	0.07801	0.021277
42	0.05394	0.017493	0.001458	0.01749	0.011662

CLUSTER=3

Obs.	having_electricity_f	having_radio_f	having_television_f	having_refrigirator_f	having_landlinephone_f
43	0.87661	0.74677	0.68871	0.17258	0.010501
44	0.76332	0.68204	0.60745	0.16230	0.007673
45	0.49238	0.83705	0.54279	0.07042	0.005869
46	0.67266	0.82854	0.59664	0.12470	0.004819
47	0.52078	0.65974	0.41169	0.13766	0.009091

Obs.	having_mobilephone_f	having_solarpanel_f	having_table_f	having_chair_f	having_sofa_f	having_bed_f
43	0.97579	0.01454	0.90234	0.69355	0.66074	0.95803
44	0.95409	0.01259	0.77556	0.62735	0.60924	0.91791
45	0.94490	0.13599	0.95780	0.95311	0.82649	0.99179
46	0.92806	0.05042	0.93517	0.92206	0.83914	0.97959
47	0.88312	0.05859	0.72078	0.81818	0.55974	0.94805

Obs.	having_cupboard_f	having_clock_f	having_microwave_f	having_dvdplayer_f	having_cdplayer_f
43	0.57789	0.30670	0.11542	0.51251	0.21890
44	0.43781	0.27591	0.07431	0.44900	0.25843
45	0.76553	0.30012	0.03869	0.35446	0.22978
46	0.74880	0.35379	0.07212	0.41707	0.21609
47	0.42987	0.22338	0.08312	0.33636	0.11558

	Classes			
	1	**2**	**3**	**Tout**
	Moyenne	**Moyenne**	**Moyenne**	**Moyenne**
having_electricity_f	0.22	0.16	0.67	0.26
having_radio_f	0.68	0.32	0.75	0.62
having_television_f	0.25	0.13	0.57	0.26
having_refrigirator_f	0.04	0.03	0.13	0.04
having_landlinephone_f	0.00	0.00	0.01	0.00
having_mobilephone_f	0.84	0.60	0.94	0.81
having_solarpanel_f	0.13	0.05	0.05	0.10
having_table_f	0.87	0.44	0.86	0.78
having_chair_f	0.88	0.52	0.80	0.80
having_sofa_f	0.51	0.20	0.70	0.47
having_bed_f	0.94	0.76	0.96	0.91
having_cupboard_f	0.44	0.13	0.59	0.40
having_clock_f	0.17	0.04	0.29	0.16
having_microwave_f	0.02	0.01	0.08	0.02
having_dvdplayer_f	0.15	0.06	0.41	0.16
having_cdplayer_f	0.09	0.03	0.21	0.09

	valeur test		
	Classes		
	1	**2**	**3**
having_electricity_f	-2.02	-1.90	5.41
having_radio_f	3.69	-5.76	1.88
having_television_f	-0.74	-3.12	5.09
having_refrigirator_f	-2.41	-1.27	5.19
having_landlinephone_f	-1.65	-0.20	2.70
having_mobilephone_f	3.12	-5.53	2.43
having_solarpanel_f	4.63	-3.64	-2.22
having_table_f	4.33	-5.72	0.88
having_chair_f	4.25	-4.96	0.02
having_sofa_f	2.13	-4.58	2.69
having_bed_f	2.56	-3.67	0.89
having_cupboard_f	2.40	-4.74	2.49
having_clock_f	1.48	-4.57	3.63
having_microwave_f	-2.09	-1.90	5.52
having_dvdplayer_f	-1.12	-2.94	5.41
having_cdplayer_f	-0.60	-3.28	5.07