

The birthrate data

March 8, 2011

The data:

24.7	5.7	30.8	Albania	12.5	11.9	14.4	Bulgaria
13.4	11.7	11.3	Czechoslovakia	12	12.4	7.6	Former_E._Germany
11.6	13.4	14.8	Hungary	14.3	10.2	16	Poland
13.6	10.7	26.9	Romania	14	9	20.2	Yugoslavia
17.7	10	23	USSR	15.2	9.5	13.1	Byelorussia_SSR
13.4	11.6	13	Ukrainian_SSR	20.7	8.4	25.7	Argentina
46.6	18	111	Bolivia	28.6	7.9	63	Brazil
23.4	5.8	17.1	Chile	27.4	6.1	40	Columbia
32.9	7.4	63	Ecuador	28.3	7.3	56	Guyana
34.8	6.6	42	Paraguay	32.9	8.3	109.9	Peru
18	9.6	21.9	Uruguay	27.5	4.4	23.3	Venezuela
29	23.2	43	Mexico	12	10.6	7.9	Belgium
13.2	10.1	5.8	Finland	12.4	11.9	7.5	Denmark
13.6	9.4	7.4	France	11.4	11.2	7.4	Germany
10.1	9.2	11	Greece	15.1	9.1	7.5	Ireland
9.7	9.1	8.8	Italy	13.2	8.6	7.1	Netherlands
14.3	10.7	7.8	Norway	11.9	9.5	13.1	Portugal
10.7	8.2	8.1	Spain	14.5	11.1	5.6	Sweden
12.5	9.5	7.1	Switzerland	13.6	11.5	8.4	U.K.
14.9	7.4	8	Austria	9.9	6.7	4.5	Japan
14.5	7.3	7.2	Canada	16.7	8.1	9.1	U.S.A.
40.4	18.7	181.6	Afghanistan	28.4	3.8	16	Bahrain
42.5	11.5	108.1	Iran	42.6	7.8	69	Iraq
22.3	6.3	9.7	Israel	38.9	6.4	44	Jordan
26.8	2.2	15.6	Kuwait	31.7	8.7	48	Lebanon
45.6	7.8	40	Oman	42.1	7.6	71	Saudi_Arabia
29.2	8.4	76	Turkey	22.8	3.8	26	United_Arab_Emirates
42.2	15.5	119	Bangladesh	41.4	16.6	130	Cambodia
21.2	6.7	32	China	11.7	4.9	6.1	Hong_Kong
30.5	10.2	91	India	28.6	9.4	75	Indonesia
23.5	18.1	25	Korea	31.6	5.6	24	Malaysia
36.1	8.8	68	Mongolia	39.6	14.8	128	Nepal
30.3	8.1	107.7	Pakistan	33.2	7.7	45	Philippines

17.8	5.2	7.5	Singapore	21.3	6.2	19.4	Sri_Lanka
22.3	7.7	28	Thailand	31.8	9.5	64	Vietnam
35.5	8.3	74	Algeria	47.2	20.2	137	Angola
48.5	11.6	67	Botswana	46.1	14.6	73	Congo
38.8	9.5	49.4	Egypt	48.6	20.7	137	Ethiopia
39.4	16.8	103	Gabon	47.4	21.4	143	Gambia
44.4	13.1	90	Ghana	47	11.3	72	Kenya
44	9.4	82	Libya	48.3	25	130	Malawi
35.5	9.8	82	Morocco	45	18.5	141	Mozambique
44	12.1	135	Namibia	48.5	15.6	105	Nigeria
48.2	23.4	154	Sierra_Leone	50.1	20.2	132	Somalia
32.1	9.9	72	South_Africa	44.6	15.8	108	Sudan
46.8	12.5	118	Swaziland	31.1	7.3	52	Tunisia
52.2	15.6	103	Uganda	50.5	14	106	Tanzania
45.6	14.2	83	Zaire	51.1	13.7	80	Zambia
41.7	10.3	66	Zimbabwe				

The SAS code and output:

```
data birthrate;
  infile "birthrate.dat";
  input birth death infant country $ @@;

proc cluster method=average ccc standard;
  id country;

proc standard mean=0 std=1;

proc fastclus maxclusters=6 out=clust;
  id country;

proc sort data=clust;
  by cluster;

proc print data=clust;
  by cluster;

run;
```

The CLUSTER Procedure
Average Linkage Cluster Analysis

Eigenvalues of the Correlation Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	2.34463201	1.80325940	0.7815	0.7815
2	0.54137260	0.42737721	0.1805	0.9620
3	0.11399539		0.0380	1.0000

The data have been standardized to mean 0 and variance 1
 Root-Mean-Square Total-Sample Standard Deviation 1
 Root-Mean-Square Distance Between Observations 2.44949

Cluster History

NCL	--Clusters	Joined---	FREQ	SPRSQ	RSQ	ERSQ	CCC	Norm RMS Dist	T i e
96	Austria	Canada	2	0.0000	1.00	.	.	0.0165	
95	Czechosl	Ukraine	2	0.0000	1.00	.	.	0.0175	
94	Greece	Italy	2	0.0000	1.00	.	.	0.0246	
93	Iraq	Saudi_Ar	2	0.0000	1.00	.	.	0.0292	
92	France	Switzerl	2	0.0000	1.00	.	.	0.0344	
91	CL95	U.K.	3	0.0000	1.00	.	.	0.0373	
90	USSR	Uruguay	2	0.0000	1.00	.	.	0.0376	
89	Norway	Sweden	2	0.0000	1.00	.	.	0.0406	
88	Former_E	Denmark	2	0.0000	1.00	.	.	0.0456	
87	Bulgaria	CL91	4	0.0000	1.00	.	.	0.0534	
86	Belgium	Germany	2	0.0000	1.00	.	.	0.0559	
85	Angola	Ethiopia	2	0.0000	1.00	.	.	0.0609	
84	Byelorussia	Ireland	2	0.0000	1.00	.	.	0.0609	
83	Finland	CL92	3	0.0000	1.00	.	.	0.0612	
82	Botswana	Kenya	2	0.0000	1.00	.	.	0.0686	
81	Mongolia	Algeria	2	0.0001	1.00	.	.	0.0714	
80	CL87	CL88	6	0.0001	.999	.	.	0.0731	
79	CL94	Portugal	3	0.0001	.999	.	.	0.0744	
78	Chile	Sri_Lank	2	0.0001	.999	.	.	0.0752	
77	Vietnam	South_Af	2	0.0001	.999	.	.	0.0797	
76	Argentina	Thailand	2	0.0001	.999	.	.	0.0808	
75	Brazil	Guyana	2	0.0001	.999	.	.	0.082	
74	Peru	Pakistan	2	0.0001	.999	.	.	0.0826	
73	Netherla	Spain	2	0.0001	.999	.	.	0.0836	
72	Venezuel	Bahrain	2	0.0001	.999	.	.	0.0878	
71	CL84	CL83	5	0.0001	.999	.	.	0.0879	
70	CL85	Somalia	3	0.0001	.999	.	.	0.0882	
69	CL78	Israel	3	0.0001	.999	.	.	0.0887	
68	CL86	CL89	4	0.0001	.998	.	.	0.0888	
67	Turkey	Indonesi	2	0.0001	.998	.	.	0.0901	
66	CL96	U.S.A.	3	0.0001	.998	.	.	0.0907	
65	Philippi	Tunisia	2	0.0001	.998	.	.	0.0954	
64	Congo	Zaire	2	0.0001	.998	.	.	0.0966	
63	Poland	CL71	6	0.0001	.998	.	.	0.1042	
62	CL80	CL68	10	0.0004	.998	.	.	0.1067	
61	CL79	CL73	5	0.0002	.997	.	.	0.1071	

The CLUSTER Procedure
Average Linkage Cluster Analysis

Cluster History								Norm RMS Dist	T i e
NCL	--Clusters	Joined---	FREQ	SPRSQ	RSQ	ERSQ	CCC		
60	Nigeria	Uganda	2	0.0001	.997	.	.	0.1129	
59	Lebanon	CL65	3	0.0002	.997	.	.	0.1166	
58	Albania	Columbia	2	0.0002	.997	.	.	0.1205	
57	CL63	Yugoslav	7	0.0002	.997	.	.	0.1236	
56	Banglade	Sudan	2	0.0002	.997	.	.	0.1243	
55	Paraguay	Jordan	2	0.0002	.996	.	.	0.1261	
54	CL70	Gambia	4	0.0002	.996	.	.	0.128	
53	CL76	China	3	0.0002	.996	.	.	0.1337	
52	CL57	CL61	12	0.0006	.995	.	.	0.1352	
51	CL75	Ecuador	3	0.0003	.995	.	.	0.1447	
50	CL67	CL77	4	0.0004	.995	.	.	0.1464	
49	CL81	Morocco	3	0.0003	.994	.	.	0.1515	
48	CL60	Tanzania	3	0.0003	.994	.	.	0.1526	
47	Romania	CL90	3	0.0003	.994	.	.	0.1567	
46	CL51	CL59	6	0.0005	.993	.	.	0.1623	
45	Japan	Hong_Kon	2	0.0003	.993	.	.	0.1678	
44	Cambodia	Nepal	2	0.0003	.993	.	.	0.1681	
43	CL64	Ghana	3	0.0004	.992	.	.	0.1692	
42	CL72	United_A	3	0.0004	.992	.	.	0.1729	
41	Namibia	Swazilan	2	0.0003	.991	.	.	0.1764	
40	Libya	Zimbabwe	2	0.0003	.991	.	.	0.1767	
39	CL69	Singapor	4	0.0005	.991	.	.	0.1795	
38	CL42	Kuwait	4	0.0004	.990	.	.	0.1892	
37	CL52	CL66	15	0.0014	.989	.	.	0.1914	
36	CL62	Hungary	11	0.0006	.988	.	.	0.1922	
35	CL56	Gabon	3	0.0005	.988	.	.	0.1931	
34	CL43	Zambia	4	0.0005	.987	.	.	0.1952	
33	CL50	CL49	7	0.0010	.986	.	.	0.1968	
32	CL58	Malaysia	3	0.0005	.986	.	.	0.2063	
31	CL93	CL40	4	0.0008	.985	.	.	0.2125	
30	Iran	CL41	3	0.0005	.984	.	.	0.2169	
29	CL35	CL44	5	0.0008	.984	.	.	0.2205	
28	CL37	CL47	18	0.0018	.982	.	.	0.2241	
27	CL54	Mozambiq	5	0.0008	.981	.	.	0.2242	
26	CL33	India	8	0.0007	.980	.	.	0.2255	
25	CL53	CL39	7	0.0015	.979	.	.	0.2305	
24	Malawi	Sierra_L	2	0.0007	.978	.	.	0.2552	
23	CL46	CL55	8	0.0017	.977	.	.	0.2573	
22	CL36	CL28	29	0.0071	.970	.	.	0.2642	
21	CL31	Egypt	5	0.0010	.969	.	.	0.2659	

20	CL82	CL34	6	0.0016	.967	.	.	0.2664
19	CL32	CL38	7	0.0018	.965	.952	4.10	0.2709
18	Bolivia	CL29	6	0.0011	.964	.949	4.53	0.2794
17	CL21	Oman	6	0.0014	.963	.945	4.87	0.3191
16	CL23	CL26	16	0.0059	.957	.942	3.84	0.3225
15	CL19	CL25	14	0.0048	.952	.938	3.37	0.3255
14	CL18	CL48	9	0.0034	.948	.933	3.43	0.332
13	CL27	CL24	7	0.0037	.945	.928	3.51	0.39
12	CL16	CL17	22	0.0084	.936	.922	2.68	0.3935
11	CL14	CL30	12	0.0055	.931	.915	2.69	0.4085
10	CL22	CL45	31	0.0059	.925	.908	2.80	0.4251
9	CL11	CL20	18	0.0115	.913	.899	1.78	0.4592

The CLUSTER Procedure
Average Linkage Cluster Analysis

Cluster History

NCL	--Clusters	Joined---	FREQ	SPRSQ	RSQ	ERSQ	CCC	Norm RMS Dist	T i e
8	CL12	CL74	24	0.0067	.907	.887	2.16	0.4773	
7	Mexico	Korea	2	0.0026	.904	.873	3.27	0.5037	
6	Afghanis	CL13	8	0.0045	.900	.854	4.47	0.5328	
5	CL15	CL10	45	0.0517	.848	.827	1.57	0.5697	
4	CL9	CL8	42	0.1001	.748	.788	-2.3	0.7742	
3	CL5	CL4	87	0.3980	.350	.723	-12	1.0708	
2	CL3	CL7	89	0.0385	.311	.593	-6.8	1.1662	
1	CL2	CL6	97	0.3114	.000	.000	0.00	1.5693	

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=6 Maxiter=1

Initial Seeds						
Cluster	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	
1	-1.72534162	0.15941566	0.82927258	0.98789355	-0.09010923	-0.132
2	-2.23773390	6.56925385	4.86392496	5.09607210	10.57544551	-6.211
3	-2.17368487	3.20408880	2.33623356	2.26332995	1.25197653	-1.290
4	-2.14166035	0.23953864	2.15051882	1.90509577	-0.01874520	-0.780
5	-2.20570938	2.96371987	3.36770524	3.49895155	2.55451672	-2.279
6	-2.26975842	6.72949980	5.34491074	5.20968367	0.89677969	-6.592
Initial Seeds						
Cluster	_PSF_	_PST2_	_ERSQ_	_RATIO_	_LOGR_	
1	-0.44033521	-0.27035129	0.55112996	0.72236918	0.62134323	0.610
2	-0.59196410	6.02138806	-0.48666002	-2.67283667	-3.05447144	-3.184
3	-0.42698985	2.84010160	-0.01321720	-0.14421243	0.01381143	0.020
4	-0.37114439	-0.30991961	0.10638924	1.00232096	0.79485489	0.690

5	-0.48514931	2.71332040	-0.19136040	-1.19487568	-0.92724080	-0.857
6	-0.56365055	-0.29326147	-1.07663676	-2.08325736	-2.02796310	-1.908
Initial Seeds						
Cluster	birth	death	infant	_DIST_	_AVLI	
1	-0.15598640	-1.40435939	-0.65291697	0.74415712	0.829272	
2	-0.10757157	-0.24604039	-0.15882604	4.79659575	4.863924	
3	-0.93411268	-0.51221259	-0.89037050	2.34281977	2.336233	
4	1.33561691	2.29886040	2.02179681	2.27937914	2.150518	
5	0.77800820	0.03914411	0.62497160	3.34682063	3.367705	
6	-0.10997284	-0.19068009	-0.16544707	4.99251670	5.344910	

Criterion Based on Final Seeds = 0.6188

Cluster Summary						
Cluster	Frequency	RMS Std Deviation	Maximum Distance from Seed to Observation	Radius Exceeded	Nearest Cluster	Distance B Cluster Cen
1	152	0.5355	6.5342		4	
2	2	.	4.9068		6	
3	2	0.6573	3.8327		5	
4	35	0.6080	4.5274		1	
5	1	.	0		3	
6	1	.	0		5	

Statistics for Variables				
Variable	Total STD	Within STD	R-Square	RSQ/(1-RSQ)
NCL	1.00000	0.79643	0.382218	0.618694
FREQ	1.00000	0.33262	0.892247	8.280458

The FASTCLUS Procedure

Replace=FULL Radius=0 Maxclusters=6 Maxiter=1

Statistics for Variables				
Variable	Total STD	Within STD	R-Square	RSQ/(1-RSQ)
HEIGHT	1.00000	0.50062	0.755908	3.096816
RMSSTD	1.00000	0.54782	0.707710	2.421260
SPRSQ	1.00000	0.14115	0.980596	50.534593
RSQ	1.00000	0.23355	0.946873	17.822929
PSF	1.00000	0.98599	0.079526	0.086397
PST2	1.00000	0.58495	0.685432	2.178961
ERSQ	1.00000	0.65813	0.687179	2.196718
RATIO	1.00000	0.51831	0.805978	4.154054
LOGR	1.00000	0.56787	0.767098	3.293657

CCC	1.00000	0.59768	0.742005	2.876050
birth	1.00000	0.84410	0.306047	0.441020
death	1.00000	0.79432	0.385483	0.627294
infant	1.00000	0.78705	0.396687	0.657516
DIST	1.00000	0.50737	0.749280	2.988510
AVLINK	1.00000	0.50062	0.755908	3.096816
OVER-ALL	1.00000	0.61116	0.640057	1.778215

Pseudo F Statistic = 66.51

Approximate Expected Over-All R-Squared = 0.19194

Cubic Clustering Criterion = 127.942

WARNING: The two values above are invalid for correlated variables.

Cluster	_NCL_	_FREQ_	Cluster Means _HEIGHT_	_RMSSTD_	_SPRSQ_	
1	0.301683923	-0.199556359	-0.286926752	-0.298956307	-0.133931975	0.1868
2	-2.269758418	6.969868734	6.120784934	5.623795978	9.410645041	-7.9401
3	-2.093623572	2.643227960	1.971774582	1.686323428	0.635442138	-0.9103
4	-0.932963560	0.040375813	0.534718037	0.631785275	-0.091023157	-0.0523
5	-2.205709383	2.963719870	3.367705240	3.498951550	2.554516718	-2.2793
6	-2.269758418	6.729499802	5.344910736	5.209683671	0.896779685	-6.5917

Cluster	_PSF_	_PST2_	Cluster Means _ERSQ_	_RATIO_	_LOGR_	
1	0.203191787	-0.191951319	0.518803341	0.575010171	0.524501846	0.5262
2	-0.591964095	3.739996942	-2.123665444	-1.650063821	-1.719321305	-1.7593
3	-0.434312765	1.434053779	0.168784904	0.023718538	0.138625708	0.1682
4	-0.360303618	-0.278948234	0.376377414	0.489163933	0.460690128	0.4450
5	-0.485149307	2.713320400	-0.191360398	-1.194875681	-0.927240804	-0.8570
6	-0.563650551	-0.293261468	-1.076636758	-2.083257358	-2.027963100	-1.9083

The FASTCLUS Procedure

Replace=FULL Radius=0 Maxclusters=6 Maxiter=1

Cluster	birth	death	infant	_DIST_	_AVLINK_
1	-0.253995921	-0.295260055	-0.293572632	-0.288263428	-0.286926752
2	-0.049160257	-0.115698772	-0.071940931	6.191124181	6.120784934
3	-1.061148925	-0.363979264	-0.930867950	2.004736587	1.971774582
4	1.147427513	1.314012010	1.319118093	0.545285205	0.534718037
5	0.778008195	0.039144115	0.624971598	3.346820631	3.367705240
6	-0.109972840	-0.190680085	-0.165447071	4.992516702	5.344910736

Cluster	Cluster Standard Deviations					
	NCL	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	
1	0.733452981	0.281655045	0.377948549	0.434404102	0.020214715	0.0660
2	0.045289507	0.566555006	1.777468428	0.746314270	1.647276625	2.4440
3	0.113223767	0.793177008	0.515422833	0.816010455	0.871911304	0.5379
4	1.048365136	0.477732273	0.802037885	0.881210260	0.074793701	0.3103
5	.	.	.	.	.	.
6	.	.	.	.	.	.
Cluster	Cluster Standard Deviations					
	PSF	_PST2_	_ERSQ_	_RATIO_	_LOGR_	
1	1.185719789	0.358682362	0.045716743	0.208397112	0.136954402	0.1188
2	.	3.226374259	2.315075269	1.446419240	1.888187434	2.0150
3	0.010356169	1.988451895	0.257389850	0.237490246	0.176514051	0.2003
4	0.168062635	0.178457518	0.142429478	0.360615675	0.240221828	0.2300
5	.	.	.	.	.	.
6	.	.	.	.	.	.
Cluster	Cluster Standard Deviations					
	birth	death	infant	_DIST_	_AVLI	
1	0.919450899	0.725233903	0.805007986	0.381534561	0.377948	
2	0.082606072	0.184330878	0.122874098	1.972161020	1.777468	
3	0.179656375	0.209633575	0.057272044	0.478121821	0.515422	
4	0.403876612	1.063965357	0.726877276	0.805119499	0.802037	
5	.	.	.	.	.
6	.	.	.	.	.

Cluster=1

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_
1	Austria	CL96	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
2	Canada	CL96	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
3	Czechosl	CL95	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
4	Ukraine	CL95	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
5	Greece	CL94	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
6	Italy	CL94	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
7	Iraq	CL93	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
8	Saudi_Ar	CL93	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
9	France	CL92	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
10	Switzerl	CL92	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
11	CL95	CL91	0.70852	-0.24120	-0.44874	-0.47618	-0.13942	0.21174	5.03253	.
12	U.K.	CL91	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
13	USSR	CL90	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
14	Uruguay	CL90	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
15	Norway	CL89	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
16	Sweden	CL89	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.

17	Former_E	CL88	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
18	Denmark	CL88	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
19	Bulgaria	CL87	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
20	CL91	CL87	0.58042	-0.16108	-0.34848	-0.37736	-0.13901	0.21129	1.42972	-0.26854
21	Belgium	CL86	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
22	Germany	CL86	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
23	Byelorussia	CL84	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
24	Ireland	CL84	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
25	Finland	CL83	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
26	CL92	CL83	0.61245	-0.24120	-0.36332	-0.36193	-0.13918	0.21147	1.99598	.
Obs	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DIST
1	.	.	.	-1.06639	-0.75663	-1.03614	-0.54757	-0.53680	Austria	2.3
2	.	.	.	-1.09641	-0.77907	-1.05407	-0.54757	-0.53680	Canada	2.2
3	.	.	.	-1.17898	0.20856	-0.96218	-0.54757	-0.53680	Czechosl	2.3
4	.	.	.	-1.17898	0.18611	-0.92409	-0.54757	-0.53680	Ukraine	2.3
5	.	.	.	-1.42669	-0.35260	-0.96891	-0.54757	-0.53680	Greece	2.3
6	.	.	.	-1.45672	-0.37504	-1.01821	-0.54757	-0.53680	Italy	2.3
7	.	.	.	1.01285	-0.66684	0.33091	-0.54757	-0.53680	Iraq	2.0
8	.	.	.	0.97532	-0.71173	0.37573	-0.54757	-0.53680	Saudi_Ar	2.0
9	.	.	.	-1.16397	-0.30770	-1.04959	-0.54757	-0.53680	France	2.3
10	.	.	.	-1.24654	-0.28526	-1.05631	-0.54757	-0.53680	Switzerl	2.3
11	.	.	.	-1.17898	0.19734	-0.94314	-0.44806	-0.44874		6.2
12	.	.	.	-1.16397	0.16367	-1.02718	-0.54757	-0.53680	U.K.	2.3
13	.	.	.	-0.85621	-0.17303	-0.69998	-0.54757	-0.53680	USSR	1.6
14	.	.	.	-0.83370	-0.26281	-0.72463	-0.54757	-0.53680	Uruguay	1.6
15	.	.	.	-1.11143	-0.01590	-1.04062	-0.54757	-0.53680	Norway	2.0
16	.	.	.	-1.09641	0.07388	-1.08993	-0.54757	-0.53680	Sweden	2.3
17	.	.	.	-1.28407	0.36568	-1.04510	-0.54757	-0.53680	Former_E	2.3
18	.	.	.	-1.25405	0.25345	-1.04734	-0.54757	-0.53680	Denmark	2.2
19	.	.	.	-1.24654	0.25345	-0.89271	-0.54757	-0.53680	Bulgaria	2.3
20	.	.	.	-1.17398	0.18611	-0.97115	-0.34067	-0.34848		2.3
21	.	.	.	-1.28407	-0.03835	-1.03838	-0.54757	-0.53680	Belgium	2.2
22	.	.	.	-1.32911	0.09633	-1.04959	-0.54757	-0.53680	Germany	2.2
23	.	.	.	-1.04387	-0.28526	-0.92185	-0.54757	-0.53680	Byelorussia	1.9
24	.	.	.	-1.05138	-0.37504	-1.04734	-0.54757	-0.53680	Ireland	2.0
25	.	.	.	-1.19400	-0.15058	-1.08544	-0.54757	-0.53680	Finland	2.3
26	.	.	.	-1.20526	-0.29648	-1.05295	-0.35154	-0.36332		2.9

Cluster=1

(continued)

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_
27	Botswana	CL82	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
28	Kenya	CL82	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
29	Mongolia	CL81	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
30	Algeria	CL81	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
31	CL87	CL80	0.45233	-0.08095	-0.26746	-0.29673	-0.13845	0.21037	0.65657	-0.36673

32	CL88	CL80	0.48435	-0.24120	-0.30705	-0.28667	-0.13893	0.21076	0.94110	.
33	CL94	CL79	0.67650	-0.24120	-0.41287	-0.42820	-0.13934	0.21168	3.56724	.
34	Portugal	CL79	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
35	Chile	CL78	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
36	Sri_Lank	CL78	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
37	Vietnam	CL77	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
38	South_Af	CL77	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
39	Argentin	CL76	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
40	Thailand	CL76	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
41	Brazil	CL75	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
42	Guyana	CL75	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
43	Peru	CL74	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
44	Pakistan	CL74	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
45	Netherla	CL73	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
46	Spain	CL73	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
47	Venezuel	CL72	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
48	Bahrain	CL72	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
49	CL84	CL71	0.35625	-0.24120	-0.22941	-0.18284	-0.13847	0.20929	0.35381	.
50	CL83	CL71	0.32423	-0.16108	-0.22828	-0.23138	-0.13822	0.20881	0.27234	-0.35583
51	CL78	CL69	0.16410	-0.24120	-0.15748	-0.08663	-0.13792	0.20536	-0.02644	.
52	Israel	CL69	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
Obs	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DIST
27	.	.	.	1.45572	0.18611	0.28609	-0.54757	-0.53680	Botswana	2.3
28	.	.	.	1.34312	0.11877	0.39814	-0.54757	-0.53680	Kenya	2.2
29	.	.	.	0.52494	-0.44238	0.30850	-0.54757	-0.53680	Mongolia	1.5
30	.	.	.	0.47990	-0.55461	0.44296	-0.54757	-0.53680	Algeria	1.6
31	.	.	.	-1.19212	0.20295	-0.95154	-0.26214	-0.26746		1.8
32	.	.	.	-1.26906	0.30957	-1.04622	-0.28795	-0.30705		2.3
33	.	.	.	-1.44170	-0.36382	-0.99356	-0.40753	-0.41287		4.6
34	.	.	.	-1.29158	-0.28526	-0.92185	-0.54757	-0.53680	Portugal	2.3
35	.	.	.	-0.42836	-1.11577	-0.83220	-0.54757	-0.53680	Chile	1.9
36	.	.	.	-0.58599	-1.02598	-0.78066	-0.54757	-0.53680	Sri_Lank	1.9
37	.	.	.	0.20217	-0.28526	0.21886	-0.54757	-0.53680	Vietnam	1.3
38	.	.	.	0.22469	-0.19547	0.39814	-0.54757	-0.53680	South_Af	1.4
39	.	.	.	-0.63103	-0.53216	-0.63947	-0.54757	-0.53680	Argentin	1.5
40	.	.	.	-0.51093	-0.68929	-0.58793	-0.54757	-0.53680	Thailand	1.5
41	.	.	.	-0.03803	-0.64440	0.19645	-0.54757	-0.53680	Brazil	1.3
42	.	.	.	-0.06055	-0.77907	0.03957	-0.54757	-0.53680	Guyana	1.4
43	.	.	.	0.28474	-0.55461	1.24751	-0.54757	-0.53680	Peru	2.3
44	.	.	.	0.08958	-0.59950	1.19820	-0.54757	-0.53680	Pakistan	2.3
45	.	.	.	-1.19400	-0.48727	-1.05631	-0.54757	-0.53680	Netherla	2.3
46	.	.	.	-1.38165	-0.57706	-1.03390	-0.54757	-0.53680	Spain	2.3
47	.	.	.	-0.12060	-1.43001	-0.69326	-0.54757	-0.53680	Venezuel	2.3
48	.	.	.	-0.05304	-1.56469	-0.85685	-0.54757	-0.53680	Bahrain	2.3
49	.	.	.	-1.04762	-0.33015	-0.98459	-0.20022	-0.22941		1.5
50	.	.	.	-1.20150	-0.24785	-1.06378	-0.21300	-0.22828		1.6

51	.	.	.	-0.50717	-1.07087	-0.80643	-0.11893	-0.15748		1.4
52	.	.	.	-0.51093	-1.00353	-0.99804	-0.54757	-0.53680	Israel	1.9

Cluster=1
(continued)

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_
53	CL86	CL68	0.42030	-0.24120	-0.25488	-0.21690	-0.13863	0.21005	0.53842	.
54	CL89	CL68	0.51637	-0.24120	-0.33179	-0.31976	-0.13904	0.21097	1.10747	.
55	Turkey	CL67	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
56	Indonesi	CL67	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
57	CL96	CL66	0.74055	-0.24120	-0.45348	-0.48252	-0.13943	0.21177	5.30121	.
58	U.S.A.	CL66	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
59	Philippi	CL65	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
60	Tunisia	CL65	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
61	Congo	CL64	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
62	Zaire	CL64	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
63	Poland	CL63	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
64	CL71	CL63	-0.06007	-0.00083	-0.09339	-0.07689	-0.13558	0.19968	-0.14779	-0.33057
65	CL80	CL62	0.22815	0.07929	-0.16795	-0.17992	-0.13644	0.20668	0.03248	-0.27902
66	CL68	CL62	-0.15614	-0.08095	-0.08892	-0.06913	-0.13575	0.19648	-0.18589	-0.27598
67	CL79	CL61	0.19613	-0.16108	-0.16155	-0.17314	-0.13749	0.20594	-0.00935	0.01589
68	CL73	CL61	0.00398	-0.24120	-0.11515	-0.03000	-0.13755	0.20192	-0.09896	.
69	Nigeria	CL60	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
70	Uganda	CL60	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
71	Lebanon	CL59	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
72	CL65	CL59	-0.25221	-0.24120	-0.05567	0.04954	-0.13696	0.19359	-0.19862	.
73	Albania	CL58	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
74	Columbia	CL58	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
75	CL63	CL57	-0.31626	0.07929	-0.01103	-0.00823	-0.13553	0.19117	-0.21260	-0.42397
76	Yugoslav	CL57	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
77	Banglade	CL56	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
78	Sudan	CL56	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
Obs	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DIST
53	.	.	.	-1.30659	0.02899	-1.04398	-0.22900	-0.25488		1.9
54	.	.	.	-1.10392	0.02899	-1.06527	-0.31591	-0.33179		2.3
55	.	.	.	0.00701	-0.53216	0.48779	-0.54757	-0.53680	Turkey	1.4
56	.	.	.	-0.03803	-0.30770	0.46538	-0.54757	-0.53680	Indonesi	1.4
57	.	.	.	-1.08140	-0.76785	-1.04510	-0.45342	-0.45348		6.5
58	.	.	.	-0.93128	-0.59950	-1.01149	-0.54757	-0.53680	U.S.A.	2.0
59	.	.	.	0.30726	-0.68929	-0.20694	-0.54757	-0.53680	Philippi	1.4
60	.	.	.	0.14963	-0.77907	-0.05007	-0.54757	-0.53680	Tunisia	1.4
61	.	.	.	1.27557	0.85950	0.42055	-0.54757	-0.53680	Congo	2.5
62	.	.	.	1.23804	0.76971	0.64466	-0.54757	-0.53680	Zaire	2.5
63	.	.	.	-1.11143	-0.12813	-0.85685	-0.54757	-0.53680	Poland	1.9
64	.	.	.	-1.13995	-0.28077	-1.03211	-0.11212	-0.09339		1.6
65	.	.	.	-1.21777	0.23849	-0.98310	-0.18257	-0.16795		1.7

66	.	.	.	-1.20526	0.02899	-1.05463	-0.08136	-0.08892		1.7
67	.	.	.	-1.39166	-0.33763	-0.96965	-0.12936	-0.16155		1.8
68	.	.	.	-1.28782	-0.53216	-1.04510	-0.07110	-0.11515		1.8
69	.	.	.	1.45572	1.08396	1.13770	-0.54757	-0.53680	Nigeria	3.1
70	.	.	.	1.73345	1.08396	1.09287	-0.54757	-0.53680	Uganda	3.3
71	.	.	.	0.19466	-0.46483	-0.13971	-0.54757	-0.53680	Lebanon	1.3
72	.	.	.	0.22844	-0.73418	-0.12851	-0.00389	-0.05567		1.0
73	.	.	.	-0.33078	-1.13821	-0.52518	-0.54757	-0.53680	Albania	1.7
74	.	.	.	-0.12811	-1.04843	-0.31900	-0.54757	-0.53680	Columbia	1.6
75	.	.	.	-1.13520	-0.25533	-1.00290	-0.02160	-0.01103		1.7
76	.	.	.	-1.13395	-0.39749	-0.76273	-0.54757	-0.53680	Yugoslav	1.9
77	.	.	.	0.98282	1.06151	1.45145	-0.54757	-0.53680	Banglade	3.0
78	.	.	.	1.16297	1.12885	1.20493	-0.54757	-0.53680	Sudan	3.0

Cluster=1

(continued)

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_
79	Paraguay	CL55	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
80	Jordan	CL55	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
81	CL76	CL53	0.10006	-0.24120	-0.12947	-0.04916	-0.13768	0.20403	-0.06224	.
82	China	CL53	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
83	CL57	CL52	-0.50841	0.15942	0.08675	0.07221	-0.13367	0.17885	-0.29040	-0.40794
84	CL61	CL52	-0.38031	-0.00083	0.00338	0.03701	-0.13384	0.18535	-0.27424	-0.34540
85	CL75	CL51	0.06803	-0.24120	-0.12335	-0.04098	-0.13762	0.20334	-0.07656	.
86	Ecuador	CL51	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
87	CL67	CL50	-0.18816	-0.24120	-0.08227	0.01397	-0.13723	0.19564	-0.18779	.
88	CL77	CL50	0.13208	-0.24120	-0.13462	-0.05605	-0.13772	0.20470	-0.04580	.
89	CL81	CL49	0.26018	-0.24120	-0.17689	-0.11259	-0.13808	0.20781	0.15978	.
90	Morocco	CL49	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
91	Tanzania	CL48	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
92	Romania	CL47	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
93	CL90	CL47	0.54840	-0.24120	-0.34730	-0.34051	-0.13911	0.21114	1.26248	.
94	CL51	CL46	-0.70056	-0.16108	0.19300	0.26458	-0.13231	0.16219	-0.34038	-0.35874
95	CL59	CL46	-0.44436	-0.16108	0.05115	0.14785	-0.13528	0.18249	-0.27964	-0.45910
96	Japan	CL45	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
97	Hong_Kon	CL45	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
98	Cambodia	CL44	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
99	Nepal	CL44	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
100	CL64	CL43	-0.28424	-0.24120	-0.04936	0.05798	-0.13689	0.19263	-0.20079	.
101	Ghana	CL43	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
102	CL72	CL42	-0.02804	-0.24120	-0.09389	-0.00157	-0.13734	0.20112	-0.11085	.
103	United_A	CL42	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
104	Namibia	CL41	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
Obs	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DIST
79	.	.	.	0.42736	-0.93620	-0.27418	-0.54757	-0.53680	Paraguay	1.6
80	.	.	.	0.73512	-0.98109	-0.22936	-0.54757	-0.53680	Jordan	1.8

81	.	.	.	-0.57098	-0.61073	-0.61370	-0.08728	-0.12947		1.0
82	.	.	.	-0.59349	-0.91375	-0.49828	-0.54757	-0.53680	China	1.7
83	.	.	.	-1.13502	-0.27564	-0.96859	0.08048	0.08675		1.9
84	.	.	.	-1.35013	-0.41544	-0.99983	-0.02440	0.00338		1.9
85	.	.	.	-0.04929	-0.71173	0.11801	-0.08037	-0.12335		0.8
86	.	.	.	0.28474	-0.75663	0.19645	-0.54757	-0.53680	Ecuador	1.5
87	.	.	.	-0.01551	-0.41993	0.47658	-0.03395	-0.08227		1.0
88	.	.	.	0.21343	-0.24036	0.30850	-0.09310	-0.13462		0.7
89	.	.	.	0.50242	-0.49850	0.37573	-0.14087	-0.17689		1.0
90	.	.	.	0.47990	-0.21792	0.62225	-0.54757	-0.53680	Morocco	1.6
91	.	.	.	1.60584	0.72482	1.16011	-0.54757	-0.53680	Tanzania	3.1
92	.	.	.	-1.16397	-0.01590	-0.61258	-0.54757	-0.53680	Romania	1.8
93	.	.	.	-0.84495	-0.21792	-0.71231	-0.33344	-0.34730		1.9
94	.	.	.	0.06205	-0.72670	0.14416	0.24333	0.19300		1.6
95	.	.	.	0.21718	-0.64440	-0.13224	0.05867	0.05115		1.2
96	.	.	.	-1.44170	-0.91375	-1.11458	-0.54757	-0.53680	Japan	2.5
97	.	.	.	-1.30659	-1.31778	-1.07872	-0.54757	-0.53680	Hong_Kon	2.6
98	.	.	.	0.92277	1.30842	1.69796	-0.54757	-0.53680	Cambodia	3.3
99	.	.	.	0.78766	0.90439	1.65314	-0.54757	-0.53680	Nepal	3.0
100	.	.	.	1.25680	0.81461	0.53261	0.00324	-0.04936		2.2
101	.	.	.	1.14796	0.52281	0.80154	-0.54757	-0.53680	Ghana	2.4
102	.	.	.	-0.08682	-1.49735	-0.77506	-0.04707	-0.09389		1.8
103	.	.	.	-0.47339	-1.56469	-0.63275	-0.54757	-0.53680	United_A	2.2
104	.	.	.	1.11794	0.29834	1.81002	-0.54757	-0.53680	Namibia	3.1

Cluster=1

(continued)

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_
105	Swazilan	CL41	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
106	Libya	CL40	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
107	Zimbabwe	CL40	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
108	CL69	CL39	-0.12412	-0.16108	-0.08936	-0.02427	-0.13709	0.19786	-0.16559	-0.4654
109	Singapor	CL39	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
110	CL42	CL38	-0.98878	-0.16108	0.33511	0.41777	-0.12905	0.13100	-0.37180	-0.3117
111	Kuwait	CL38	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
112	CL52	CL37	-0.66853	0.56003	0.14518	0.20775	-0.12216	0.16483	-0.33649	-0.2290
113	CL66	CL37	-0.22019	-0.16108	-0.07957	-0.09052	-0.13646	0.19452	-0.19616	1.3123
114	CL62	CL36	-0.34829	0.39978	0.00145	0.01454	-0.12934	0.18744	-0.26056	-0.1723
115	Hungary	CL36	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
116	Gabon	CL35	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
117	Zambia	CL34	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
118	CL50	CL33	-0.73258	-0.08095	0.20167	0.27792	-0.12951	0.15852	-0.34901	-0.3076
119	CL49	CL33	-0.76461	-0.16108	0.22717	0.28540	-0.13140	0.15554	-0.35265	-0.2727
120	CL58	CL32	-0.47639	-0.24120	0.07102	0.21899	-0.13543	0.18099	-0.28194	.
121	Malaysia	CL32	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
122	CL93	CL31	0.64447	-0.24120	-0.38968	-0.39719	-0.13927	0.21159	2.65828	.

123	CL40	CL31	-1.05283	-0.24120	0.35441	0.59801	-0.13075	0.12458	-0.36954	.	.
124	Iran	CL30	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
125	CL37	CL28	-1.14890	0.80040	0.42868	0.39748	-0.10139	0.10162	-0.39568	-0.0435	.
126	CL47	CL28	-0.82866	-0.16108	0.25372	0.28164	-0.13045	0.14946	-0.35816	0.5256	.
127	Mozambiq	CL27	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
128	CL33	CL26	-1.27700	0.15942	0.45573	0.56131	-0.11374	0.07660	-0.40148	-0.2823	.
129	India	CL26	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
130	CL53	CL25	-0.63651	-0.16108	0.13731	0.20658	-0.13344	0.17120	-0.30390	-0.3820	.
Obs	_ERSQ_	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DI
105	.	.	.	.	1.32811	0.38813	1.42903	-0.54757	-0.53680	Swazilan	2
106	.	.	.	.	1.11794	-0.30770	0.62225	-0.54757	-0.53680	Libya	2
107	.	.	.	.	0.94529	-0.10569	0.26368	-0.54757	-0.53680	Zimbabwe	1
108	.	.	.	.	-0.50842	-1.04843	-0.87030	-0.08963	-0.08936	.	1
109	.	.	.	.	-0.84871	-1.25044	-1.04734	-0.54757	-0.53680	Singapor	2
110	.	.	.	.	-0.21568	-1.51980	-0.72762	0.40539	0.33511	.	2
111	.	.	.	.	-0.17314	-1.92383	-0.86582	-0.54757	-0.53680	Kuwait	2
112	.	.	.	.	-1.22465	-0.33389	-0.98161	0.03934	0.14518	.	2
113	.	.	.	.	-1.03136	-0.71173	-1.03390	-0.03305	-0.07957	.	2
114	.	.	.	.	-1.21276	0.15469	-1.01171	-0.05238	0.00145	.	1
115	.	.	.	.	-1.31410	0.59014	-0.88375	-0.54757	-0.53680	Hungary	2
116	.	.	.	.	0.77265	1.35331	1.09287	-0.54757	-0.53680	Gabon	2
117	.	.	.	.	1.65088	0.65748	0.57743	-0.54757	-0.53680	Zambia	2
118	.	.	.	.	0.09896	-0.33015	0.39254	0.21320	0.20167	.	1
119	.	.	.	.	0.49491	-0.40497	0.45791	0.29143	0.22717	.	1
120	.	.	.	.	-0.22944	-1.09332	-0.42209	0.13927	0.07102	.	1
121	.	.	.	.	0.18716	-1.16066	-0.67757	-0.54757	-0.53680	Malaysia	1
122	.	.	.	.	0.99408	-0.68929	0.35332	-0.38133	-0.38968	.	3
123	.	.	.	.	1.03161	-0.20670	0.44296	0.45951	0.35441	.	2
124	.	.	.	.	1.00534	0.16367	1.20717	-0.54757	-0.53680	Iran	2
125	.	.	.	.	-1.18599	-0.40946	-0.99207	0.41145	0.42868	.	2
126	.	.	.	.	-0.95129	-0.15058	-0.67906	0.33929	0.25372	.	2
127	.	.	.	.	1.19300	1.73490	1.94448	-0.54757	-0.53680	Mozambiq	4
128	.	.	.	.	0.26865	-0.36222	0.42055	0.38541	0.45573	.	2
129	.	.	.	.	0.10459	-0.12813	0.82395	-0.54757	-0.53680	India	1
130	.	.	.	.	-0.57848	-0.71173	-0.57523	0.17859	0.13731	.	1

Cluster=1
(continued)

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_
131	CL39	CL25	-1.08485	-0.08095	0.36835	0.35212	-0.12696	0.11997	-0.37178	-0.2448
132	CL46	CL23	-0.86068	0.07929	0.28161	0.39416	-0.12529	0.14425	-0.36869	-0.3697
133	CL55	CL23	-0.57246	-0.24120	0.09897	0.25637	-0.13505	0.17563	-0.29333	.
134	CL36	CL22	-1.18092	0.47991	0.43237	0.18607	-0.12254	0.09539	-0.39824	-0.1910
135	CL28	CL22	-1.43712	1.04077	0.59331	0.57290	-0.09111	0.03268	-0.41070	-0.1548
136	CL31	CL21	-1.34105	-0.08095	0.53516	0.67633	-0.11867	0.06362	-0.40096	-0.3210
137	Egypt	CL21	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.

138	CL82	CL20	0.29220	-0.24120	-0.19075	-0.13113	-0.13819	0.20833	0.21190	.	.
139	CL32	CL19	-1.30902	-0.16108	0.50342	0.63516	-0.12496	0.07127	-0.39963	-0.3703	-0.3703
140	CL38	CL19	-1.11688	-0.08095	0.41729	0.55756	-0.12761	0.11560	-0.37260	-0.4488	-0.4488
141	Bolivia	CL18	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
142	Oman	CL17	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
143	CL23	CL16	-1.59724	0.23954	0.76076	0.76239	-0.09468	-0.01943	-0.40757	-0.1740	-0.1740
144	CL26	CL16	-1.50117	0.23954	0.60026	0.66270	-0.12073	0.01822	-0.40477	-0.4301	-0.4301
145	CL19	CL15	-1.72534	0.15942	0.82927	0.98789	-0.09011	-0.13278	-0.44034	-0.2703	-0.2703
146	CL25	CL15	-1.53319	0.15942	0.62574	0.72088	-0.10002	0.00373	-0.40903	-0.1612	-0.1612
147	CL22	CL10	-1.62927	1.92212	0.79581	0.87054	0.05048	-0.08915	-0.45033	0.7855	0.7855
148	CL45	CL10	-0.89270	-0.24120	0.30931	0.53770	-0.13161	0.14135	-0.36879	.	.
149	CL74	CL8	0.03601	-0.24120	-0.12001	-0.03651	-0.13759	0.20264	-0.08856	.	.
150	Mexico	CL7	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
151	Korea	CL7	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
152	CL15	CL5	-1.85344	0.72028	1.10485	1.29610	-0.00973	-0.26360	-0.44682	-0.0741	-0.0741
Obs	_ERSQ_	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DISTANCE
131	.	.	.	.	-0.59349	-1.09893	-0.91456	0.43679	0.36835	.	2.10485
132	.	.	.	.	0.13962	-0.68555	0.00596	0.19335	0.28161	.	1.10485
133	.	.	.	.	0.58124	-0.95864	-0.25177	0.17086	0.09897	.	1.10485
134	.	.	.	.	-1.22197	0.19428	-1.00008	0.49189	0.43237	.	2.10485
135	.	.	.	.	-1.14687	-0.36631	-0.93990	0.51119	0.59331	.	3.10485
136	.	.	.	.	1.01285	-0.44799	0.39814	0.55100	0.53516	.	2.10485
137	.	.	.	.	0.72761	-0.28526	-0.10834	-0.54757	-0.53680	Egypt	1.10485
138	.	.	.	.	1.39942	0.15244	0.34212	-0.15654	-0.19075	.	1.10485
139	.	.	.	.	-0.09057	-1.11577	-0.50725	0.57661	0.50342	.	1.10485
140	.	.	.	.	-0.20505	-1.62080	-0.76217	0.41099	0.41729	.	2.10485
141	.	.	.	.	1.31310	1.62267	1.27216	-0.54757	-0.53680	Bolivia	3.10485
142	.	.	.	.	1.23804	-0.66684	-0.31900	-0.54757	-0.53680	Oman	2.10485
143	.	.	.	.	0.25002	-0.75382	-0.05847	0.76792	0.76076	.	3.10485
144	.	.	.	.	0.24815	-0.33295	0.47098	0.56718	0.60026	.	2.10485
145	0.55113	0.72237	0.62134	0.61029	-0.15599	-1.40436	-0.65292	0.74416	0.82927	.	3.10485
146	.	.	.	.	-0.58706	-0.93299	-0.76913	0.60729	0.62574	.	3.10485
147	.	.	.	.	-1.17536	-0.15368	-0.96273	0.72179	0.79581	.	4.10485
148	.	.	.	.	-1.37415	-1.11577	-1.09665	0.40855	0.30931	.	2.10485
149	.	.	.	.	0.18716	-0.57706	1.22286	-0.07659	-0.12001	.	1.10485
150	.	.	.	.	-0.00801	2.78987	-0.25177	-0.54757	-0.53680	Mexico	3.10485
151	.	.	.	.	-0.42085	1.64512	-0.65516	-0.54757	-0.53680	Korea	2.10485
152	0.48648	0.42765	0.42766	0.44224	-0.37152	-1.16867	-0.71102	0.91769	1.10485	.	3.10485

Cluster=2

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_	_PST3_
153	CL3	CL2	-2.23773	6.56925	4.86392	5.09607	10.5754	-6.21143	-0.59196	6.02139	-0.59196
154	CL1		-2.30178	7.37048	7.37764	6.15152	8.2458	-9.66890	.	1.45861	-3.10485
Obs	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DISTANCE	
153	-2.67284	-3.05447	-3.18419	-0.10757	-0.24604	-0.15883	4.79660	4.86392	.	4.76033	
154	-0.62729	-0.38417	-0.33453	0.00925	0.01464	0.01494	7.58565	7.37764	.	4.90683	

Cluster=3

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_	_PST3_
155	CL10	CL5	-2.01356	2.08237	1.60732	1.10932	0.01891	-0.52990	-0.44164	0.02801	0.02801
156	CL5	CL3	-2.17368	3.20409	2.33623	2.26333	1.25198	-1.29072	-0.42699	2.84010	-0.42699
Obs	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DISTANCE	
155	0.19165	0.26344	0.30970	-1.18819	-0.21575	-0.97137	1.66665	1.60732		3.20409	
156	-0.14421	0.01381	0.02672	-0.93411	-0.51221	-0.89037	2.34282	2.33623		0.02672	

Cluster=4

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_	_PST3_
157	Angola	CL85	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
158	Ethiopia	CL85	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
159	CL85	CL70	0.38828	-0.24120	-0.22964	-0.18314	-0.13847	0.20967	0.42851	.	.
160	Somalia	CL70	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
161	CL70	CL54	-0.09209	-0.16108	-0.09209	-0.05349	-0.13695	0.19874	-0.15864	-0.42188	-0.42188
162	Gambia	CL54	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
163	CL60	CL48	-0.41234	-0.24120	0.03265	0.16767	-0.13593	0.18404	-0.27580	.	.
164	CL56	CL35	-0.54043	-0.24120	0.09028	0.24475	-0.13517	0.17726	-0.29198	.	.
165	CL43	CL34	-0.95675	-0.16108	0.31659	0.41112	-0.12967	0.13483	-0.37008	-0.36187	-0.36187
166	CL41	CL30	-1.02080	-0.24120	0.35298	0.59611	-0.13078	0.12779	-0.37089	.	.
167	CL35	CL29	-1.21295	-0.16108	0.43709	0.57462	-0.12701	0.09080	-0.39680	-0.40230	-0.40230
168	CL44	CL29	-0.92473	-0.24120	0.31102	0.53998	-0.13158	0.13844	-0.36845	.	.
169	CL54	CL27	-0.60448	-0.08095	0.10892	0.12645	-0.13351	0.17342	-0.29906	-0.38153	-0.38153
Obs	_ERSQ_	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DISTANCE
157	.	.	.	.	1.35814	2.11649	1.85484	-0.54757	-0.53680	Angola	4.21435
158	.	.	.	.	1.46322	2.22872	1.85484	-0.54757	-0.53680	Ethiopia	4.22659
159	.	.	.	.	1.41068	2.17260	1.85484	-0.20048	-0.22964		3.24096
160	.	.	.	.	1.57582	2.11649	1.74278	-0.54757	-0.53680	Somalia	4.22403
161	.	.	.	.	1.46573	2.15390	1.81749	-0.07596	-0.09209		2.46072
162	.	.	.	.	1.37315	2.38584	1.98930	-0.54757	-0.53680	Gambia	4.25260
163	.	.	.	.	1.59458	1.08396	1.11529	0.09592	0.03265		2.42155
164	.	.	.	.	1.07290	1.09518	1.32819	0.16104	0.09028		2.17134
165	.	.	.	.	1.22052	0.71734	0.62225	0.37661	0.31659		2.19842
166	.	.	.	.	1.22302	0.34324	1.61953	0.45790	0.35298		2.28364
167	.	.	.	.	0.97281	1.18123	1.24975	0.49435	0.43709		1.40536
168	.	.	.	.	0.85522	1.10641	1.67555	0.41048	0.31102		1.67844
169	.	.	.	.	1.44258	2.21188	1.86044	0.13281	0.10892		1.81925

Cluster=4

(continued)

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_	_PST3_
170	Malawi	CL24	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
171	Sierra_L	CL24	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.	.
172	CL34	CL20	-1.24497	-0.08095	0.44787	0.57750	-0.12658	0.08606	-0.39517	-0.43971	-0.43971
173	CL29	CL18	-1.40510	-0.00083	0.57503	0.77171	-0.11828	0.05044	-0.39809	-0.41671	-0.41671

174	CL21	CL17	-1.66129	-0.00083	0.80434	0.90777	-0.11374	-0.09860	-0.44476	-0.4158
175	CL18	CL14	-1.75737	0.07929	0.87210	0.96392	-0.11069	-0.14336	-0.43278	-0.4197
176	CL48	CL14	-0.79663	-0.16108	0.23266	0.35443	-0.13200	0.15279	-0.35445	-0.4388
177	CL27	CL13	-1.46915	-0.00083	0.59399	0.51344	-0.11887	0.02511	-0.40849	-0.2366
178	CL24	CL13	-1.56522	-0.24120	0.75047	1.12774	-0.12124	-0.00298	-0.40361	.
179	CL16	CL12	-1.82142	0.88052	1.08948	1.22840	0.02003	-0.21597	-0.44129	0.1667
180	CL17	CL12	-1.78939	0.07929	1.07270	1.15193	-0.10117	-0.15743	-0.42610	-0.4080
181	CL14	CL11	-1.88546	0.31966	1.13773	1.30188	-0.04816	-0.29712	-0.44410	-0.1904
182	CL30	CL11	-1.37307	-0.16108	0.55698	0.78401	-0.12483	0.05823	-0.39801	-0.4580
183	CL11	CL9	-1.98154	0.56003	1.52328	1.67596	0.00921	-0.47176	-0.44708	-0.1920
184	CL20	CL9	-1.69332	0.07929	0.80678	0.91781	-0.09577	-0.11466	-0.44244	-0.2318
185	CL12	CL8	-1.94951	1.36126	1.44790	1.60865	0.08748	-0.41719	-0.45037	-0.0105
186	Afghanis	CL6	0.77257	-0.32132	-0.53680	-0.59395	-0.13951	0.21180	.	.
187	CL13	CL6	-1.91749	0.15942	1.43017	1.41125	-0.03931	-0.33389	-0.44061	-0.0566
188	CL9	CL4	-2.04559	1.04077	1.77901	2.04447	0.17015	-0.64353	-0.44651	0.0117
189	CL8	CL4	-2.07761	1.52151	1.87040	1.79646	0.04068	-0.70966	-0.43441	-0.2433
190	CL7	CL2	-2.10964	-0.24120	2.00352	2.80367	-0.06835	-0.73577	-0.40590	.
191	CL6	CL1	-2.14166	0.23954	2.15052	1.90510	-0.01875	-0.78009	-0.37114	-0.3099
Obs	_ERSQ_	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country
170	.	.	.	.	1.44070	3.19390	1.69796	-0.54757	-0.53680	Malawi
171	.	.	.	.	1.43320	2.83476	2.23582	-0.54757	-0.53680	Sierra_L
172	.	.	.	.	1.32811	0.70238	0.61104	0.45129	0.44787	
173	.	.	.	.	0.92577	1.15130	1.42007	0.46441	0.57503	
174	.	.	.	.	0.95580	-0.41544	0.29685	0.81802	0.80434	
175	0.53718	0.88149	0.72114	0.70810	0.99033	1.22986	1.39542	0.86742	0.87210	
176	.	.	.	.	1.59834	0.96425	1.13023	0.26021	0.23266	
177	.	.	.	.	1.39266	2.11649	1.87725	0.67467	0.59399	
178	.	.	.	.	1.43695	3.01433	1.96689	0.90708	0.75047	
179	0.50509	0.60356	0.54470	0.54957	0.24908	-0.54339	0.20625	0.97214	1.08948	
180	0.52191	1.00993	0.79944	0.78674	1.00284	-0.45734	0.19421	1.08460	1.07270	
181	0.46573	0.44042	0.43630	0.45513	1.19300	1.14132	1.30702	1.07870	1.13773	
182	.	.	.	.	1.15046	0.28338	1.48207	0.58155	0.55698	
183	0.38581	0.16602	0.24507	0.28510	1.18236	0.92684	1.35078	1.40875	1.52328	
184	.	.	.	.	1.35188	0.51906	0.52140	0.83068	0.80678	
185	0.41603	0.17052	0.24831	0.28289	0.45465	-0.51992	0.20297	1.18797	1.44790	
186	.	.	.	.	0.84771	1.77979	2.85435	-0.54757	-0.53680	Afghanis
187	0.44243	0.46034	0.44975	0.47340	1.40532	2.37301	1.90286	1.46770	1.43017	
188	0.30918	-0.01257	0.11404	0.07510	1.23887	0.79091	1.07432	1.56967	1.77901	
189	0.25784	0.12089	0.21247	0.16356	0.43236	-0.52468	0.28796	1.83803	1.87040	
190	0.19256	0.53789	0.50152	0.41951	-0.21443	2.21749	-0.45346	2.32305	2.00352	
191	0.10639	1.00232	0.79485	0.69611	1.33562	2.29886	2.02180	2.27938	2.15052	

Cluster=5

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_	_P
192	CL4	CL3	-2.20571	2.96372	3.36771	3.49895	2.55452	-2.27935	-0.48515	2.71332	-0.
Obs	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DI	

192 -1.19488 -0.92724 -0.85710 0.77801 0.039144 0.62497 3.34682 3.36771

Cluster=6

Obs	_NAME_	_PARENT_	_NCL_	_FREQ_	_HEIGHT_	_RMSSTD_	_SPRSQ_	_RSQ_	_PSF_	_PST2_	
193	CL2	CL1	-2.26976	6.72950	5.34491	5.20968	0.89678	-6.59172	-0.56365	-0.29326	-1
Obs	_RATIO_	_LOGR_	_CCC_	birth	death	infant	_DIST_	_AVLINK_	country	DISTANCE	
193	-2.08326	-2.02796	-1.90836	-0.10997	-0.19068	-0.16545	4.99252	5.34491			0