The University of Nottingham

Investigating Sustainable Land Use

Possible Implications for Brownfield Regeneration Policy

Volume 2

APPENDIXES

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Appendix A SPSS Outputs

SPSS PCA Result

Correlation Matrix – Listwise

Correlation Matrix

		ECORISK	NBI	ANTH40	ANTH10	GR2050
Correlation	ECORISK	1.000	.002	.588	-.643	-.582
	NBI	.002	1.000	-.133	.174	.351
	ANTH40	.588	-.133	1.000	-.671	-.404
	ANTH10	-.643	.174	-.671	1.000	.598
	GR2050	-.582	.351	-.404	.598	1.000
	POP_DEN	.521	-.052	.924	-.607	-.396
	PECR	-.296	.215	-.057	.026	.067
	ENROL	-.068	-.288	-.041	.350	.242
	L_UNEMP	.782	-.209	.525	-.685	-.758
	Real_GDP	-.320	-.002	-.407	.246	.179
	arable	.783	-.136	.487	-.632	-.504
	permanent	.416	.159	.096	-.336	-.396
	others	-.829	.099	-.475	.669	.561
	GDPagr	-.083	.075	-.404	-.089	-.066
	GDPind	-.465	-.267	-.406	.043	.057
	GDPser	.434	.228	.430	-.024	-.042
	LABagr	.160	.297	-.235	-.260	-.179
	LABind	.294	-.009	-.067	-.444	-.528
	LABser	-.310	-.219	.174	.430	.450
	Geo_Pop_Conc	-.631	.206	-.573	.781	.469
	Eld_Pop_Conc	-.607	.317	-.591	.874	.513
	GDP_GINI	.004	.265	-.015	-.182	.161
	Unemploy_GINI	.164	-.031	.152	-.049	-.238
	Income_GINI	-.114	.641	-.109	.021	.315
	Urban_pop	-.052	.093	.259	.321	.528
	Urban_rate	-.549	.138	-.425	.264	.648
	VitPre	-.365	-.097	.112	.209	.634
	FearCrime	.347	.417	.200	-.434	-.348
	RuleofLaw	-.318	-.514	.037	.298	.117
	Satisfactory	.695	-.054	.307	-.415	-.446
Sig. (1-tailed)	ECORISK		.497	.002	.001	.002
	NBI	.497		.278	.220	.055
	ANTH40	.002	.278		.000	.031
	ANTH10	.001	.220	.000		.002
	GR2050	.002	.055	.031	.002	
	POP_DEN	.006	.408	.000	.001	.034
	PECR	.090	.168	.400	.453	.384

Correlation Matrix

		POP_DEN	PECR	ENROL	L_UNEMP	Real_GDP
Correlation	ECORISK	.521	-.296	-.068	.782	-.320
	NBI	-.052	.215	-.288	-.209	-.002
	ANTH40	.924	-.057	-.041	.525	-.407
	ANTH10	-.607	.026	.350	-.685	.246
	GR2050	-.396	.067	.242	-.758	.179
	POP_DEN	1.000	-.057	-.166	.524	-.502
	PECR	-.057	1.000	-.082	-.345	.263
	ENROL	-.166	-.082	1.000	-.177	.144
	L_UNEMP	.524	-.345	-.177	1.000	-.392
	Real_GDP	-.502	.263	.144	-.392	1.000
	arable	.325	-.282	-.174	.576	.004
	permanent	.009	.049	-.148	.467	-.306
	others	-.301	.253	.185	-.643	.062
	GDPagr	-.422	.043	-.303	.097	.511
	GDPind	-.350	.253	-.280	-.201	.487
	GDPser	.382	-.237	.299	.168	-.519
	LABagr	-.182	-.023	-.431	.223	.222
	LABind	-.024	.183	-.497	.468	.028
	LABser	.115	-.133	.558	-.414	-.149
	Geo_Pop_Conc	-.493	.120	.173	-.667	.078
	Eld_Pop_Conc	-.496	.022	.200	-.641	.115
	GDP_GINI	.001	-.145	-.522	-.022	.082
	Unemploy_GINI	.175	-.094	-.372	.300	-.525
	Income_GINI	-.016	.182	-.307	-.173	-.009
	Urban_pop	.180	-.148	.404	-.378	-.071
	Urban_rate	-.499	.094	-.004	-.605	.338
	VitPre	.041	-.160	.178	-.403	.208
	FearCrime	.256	.001	-.344	.498	-.117
	RuleofLaw	-.009	-.008	.596	-.236	-.057
	Satisfactory	.387	-.472	-.201	.712	-.380
Sig. (1-tailed)	ECORISK	.006	.090	.382	.000	.073
	NBI	.408	.168	.097	.175	.496
	ANTH40	.000	.400	.429	.006	.030
	ANTH10	.001	.453	.055	.000	.135
	GR2050	.034	.384	.139	.000	.213
	POP_DEN		.401	.230	.006	.009
	PECR	.401		.358	.058	.118

Correlation Matrix

		arable	permanent	others	GDPagr	GDPind
Correlation	ECORISK	.783	.416	-.829	-.083	-.465
	NBI	-.136	.159	.099	.075	-.267
	ANTH40	.487	.096	-.475	-.404	-.406
	ANTH10	-.632	-.336	.669	-.089	.043
	GR2050	-.504	-.396	.561	-.066	.057
	POP_DEN	.325	.009	-.301	-.422	-.350
	PECR	-.282	.049	.253	.043	.253
	ENROL	-.174	-.148	.185	-.303	-.280
	L_UNEMP	.576	.467	-.643	.097	-.201
	Real_GDP	.004	-.306	.062	.511	.487
	arable	1.000	.141	-.974	-.007	-.222
	permanent	.141	1.000	-.357	.308	-.217
	others	-.974	-.357	1.000	-.065	.243
	GDPagr	-.007	.308	-.065	1.000	.586
	GDPind	-.222	-.217	.243	.586	1.000
	GDPser	.202	.146	-.210	-.685	-.992
	LABagr	.117	.288	-.172	.724	.264
	LABind	.348	.307	-.391	.293	.294
	LABser	-.292	-.408	.362	-.612	-.295
	Geo_Pop_Conc	-.678	-.042	.654	-.067	-.055
	Eld_Pop_Conc	-.632	-.145	.633	-.073	-.070
	GDP_GINI	.184	.018	-.174	.332	.204
	Unemploy_GINI	.124	.426	-.206	-.214	-.138
	Income_GINI	-.160	.165	.128	.231	-.200
	Urban_pop	-.005	-.384	.088	-.616	-.381
	Urban_rate	-.422	-.110	.425	.410	.314
	VitPre	-.122	-.562	.243	-.078	.158
	FearCrime	.179	.624	-.299	.311	-.133
	RuleofLaw	-.249	-.465	.335	-.491	-.007
	Satisfactory	.503	.321	-.546	.064	-.285
Sig. (1-tailed)	ECORISK	.000	.027	.000	.356	.015
	NBI	.273	.240	.331	.370	.115
	ANTH40	.011	.335	.013	.031	.030
	ANTH10	.001	.063	.000	.347	.425
	GR2050	.008	.034	.003	.385	.400
	POP_DEN	.070	.483	.087	.025	.055
	PECR	.102	.414	.128	.424	.128

Correlation Matrix

		GDPser	LABagr	LABind	LABser	Geo_Pop_ Conc
Correlation	ECORISK	.434	.160	.294	-.310	-.631
	NBI	.228	.297	-.009	-.219	.206
	ANTH40	.430	-.235	-.067	.174	-.573
	ANTH10	-.024	-.260	-.444	.430	.781
	GR2050	-.042	-.179	-.528	.450	.469
	POP_DEN	.382	-.182	-.024	.115	-.493
	PECR	-.237	-.023	.183	-.133	.120
	ENROL	.299	-.431	-.497	.558	.173
	L_UNEMP	.168	.223	.468	-.414	-.667
	Real_GDP	-.519	.222	.028	-.149	.078
	arable	.202	.117	.348	-.292	-.678
	permanent	.146	.288	.307	-.408	-.042
	others	-.210	-.172	-.391	.362	.654
	GDPagr	-.685	.724	.293	-.612	-.067
	GDPind	-.992	.264	.294	-.295	-.055
	GDPser	1.000	-.353	-.308	.361	.058
	LABagr	-.353	1.000	.327	-.824	-.105
	LABind	-.308	.327	1.000	-.795	-.396
	LABser	.361	-.824	-.795	1.000	.281
	Geo_Pop_Conc	.058	-.105	-.396	.281	1.000
	Eld_Pop_Conc	.074	-.109	-.419	.302	.945
	GDP_GINI	-.235	.566	.088	-.390	-.025
	Unemploy_GINI	.161	-.112	.235	-.083	.123
	Income_GINI	.142	.443	-.039	-.268	.244
	Urban_pop	.441	-.611	-.562	.701	.194
	Urban_rate	-.350	.149	-.368	.153	.394
	VitPre	-.129	-.134	-.556	.473	.085
	FearCrime	.070	.572	.361	-.600	-.097
	RuleofLaw	.084	-.751	-.374	.718	.120
	Satisfactory	.246	.213	.176	-.238	-.502
Sig. (1-tailed)	ECORISK	.022	.238	.092	.080	.001
	NBI	.154	.090	.485	.164	.179
	ANTH40	.023	.147	.383	.219	.003
	ANTH10	.457	.122	.019	.023	.000
	GR2050	.426	.213	.006	.018	.014
	POP_DEN	.040	.209	.457	.305	.010
	PECR	.144	.460	.207	.278	.297

Correlation Matrix

		Eld_Pop_ Conc	GDP_GINI	Unemploy_ GINI	Income_GINI
Correlation	ECORISK	-.607	.004	.164	-.114
	NBI	.317	.265	-.031	.641
	ANTH40	-.591	-.015	.152	-.109
	ANTH10	.874	-.182	-.049	.021
	GR2050	.513	.161	-.238	.315
	POP_DEN	-.496	.001	.175	-.016
	PECR	.022	-.145	-.094	.182
	ENROL	.200	-.522	-.372	-.307
	L_UNEMP	-.641	-.022	.300	-.173
	Real_GDP	.115	.082	-.525	-.009
	arable	-.632	.184	.124	-.160
	permanent	-.145	.018	.426	.165
	others	.633	-.174	-.206	.128
	GDPagr	-.073	.332	-.214	.231
	GDPind	-.070	.204	-.138	-.200
	GDPser	.074	-.235	.161	.142
	LABagr	-.109	.566	-.112	.443
	LABind	-.419	.088	.235	-.039
	LABser	.302	-.390	-.083	-.268
	Geo_Pop_Conc	.945	-.025	.123	.244
	Eld_Pop_Conc	1.000	-.029	.088	.182
	GDP_GINI	-.029	1.000	.290	.486
	Unemploy_GINI	.088	.290	1.000	.004
	Income_GINI	.182	.486	.004	1.000
	Urban_pop	.283	-.049	.056	-.185
	Urban_rate	.312	.154	-.376	.259
	VitPre	.135	.274	-.199	.059
	FearCrime	-.116	.338	.275	.439
	RuleofLaw	.148	-.647	-.198	-.584
	Satisfactory	-.454	-.024	.127	.000
Sig. (1-tailed)	ECORISK	.001	.492	.233	.307
	NBI	.075	.116	.446	.001
	ANTH40	.002	.474	.250	.315
	ANTH10	.000	.209	.413	.462
	GR2050	.007	.237	.143	.076
	POP_DEN	.009	.498	.219	.471
	PECR	.461	.259	.338	.209

Correlation Matrix

		Urban_pop	Urban_rate	VitPre	FearCrime
Correlation	ECORISK	-.052	-.549	-.365	.347
	NBI	.093	.138	-.097	.417
	ANTH40	.259	-.425	.112	.200
	ANTH10	.321	.264	.209	-.434
	GR2050	.528	.648	.634	-.348
	POP_DEN	.180	-.499	.041	.256
	PECR	-.148	.094	-.160	.001
	ENROL	.404	-.004	.178	-.344
	L_UNEMP	-.378	-.605	-.403	.498
	Real_GDP	-.071	.338	.208	-.117
	arable	-.005	-.422	-.122	.179
	permanent	-.384	-.110	-.562	.624
	others	.088	.425	.243	-.299
	GDPagr	-.616	.410	-.078	.311
	GDPind	-.381	.314	.158	-.133
	GDPser	.441	-.350	-.129	.070
	LABagr	-.611	.149	-.134	.572
	LABind	-.562	-.368	-.556	.361
	LABser	.701	.153	.473	-.600
	Geo_Pop_Conc	.194	.394	.085	-.097
	Eld_Pop_Conc	.283	.312	.135	-.116
	GDP_GINI	-.049	.154	.274	.338
	Unemploy_GINI	.056	-.376	-.199	.275
	Income_GINI	-.185	.259	.059	.439
	Urban_pop	1.000	.027	.508	-.352
	Urban_rate	.027	1.000	.471	-.202
	VitPre	.508	.471	1.000	-.291
	FearCrime	-.352	-.202	-.291	1.000
	RuleofLaw	.324	.045	.224	-.691
	Satisfactory	-.269	-.482	-.279	.326
Sig. (1-tailed)	ECORISK	.409	.004	.047	.057
	NBI	.340	.271	.334	.027
	ANTH40	.122	.024	.310	.186
	ANTH10	.073	.118	.176	.022
	GR2050	.006	.001	.001	.056
	POP_DEN	.212	.009	.429	.125
	PECR	.256	.339	.239	.498

Correlation Matrix

		RuleofLaw	Satisfactory
Correlation	ECORISK	-.318	.695
	NBI	-.514	-.054
	ANTH40	.037	.307
	ANTH10	.298	-.415
	GR2050	.117	-.446
	POP_DEN	-.009	.387
	PECR	-.008	-.472
	ENROL	.596	-.201
	L_UNEMP	-.236	.712
	Real_GDP	-.057	-.380
	arable	-.249	.503
	permanent	-.465	.321
	others	.335	-.546
	GDPagr	-.491	.064
	GDPind	-.007	-.285
	GDPser	.084	.246
	LABagr	-.751	.213
	LABind	-.374	.176
	LABser	.718	-.238
	Geo_Pop_Conc	.120	-.502
	Eld_Pop_Conc	.148	-.454
	GDP_GINI	-.647	-.024
	Unemploy_GINI	-.198	.127
	Income_GINI	-.584	.000
	Urban_pop	.324	-.269
	Urban_rate	.045	-.482
	VitPre	.224	-.279
	FearCrime	-.691	.326
	RuleofLaw	1.000	-.373
	Satisfactory	-.373	1.000
Sig. (1-tailed)	ECORISK	.075	.000
	NBI	.007	.406
	ANTH40	.436	.082
	ANTH10	.089	.027
	GR2050	.303	.019
	POP_DEN	.484	.038
	PECR	.486	.013

Correlation Matrix

		ECORISK	NBI	ANTH40	ANTH10	GR2050
Sig. (1-tailed)	ENROL	.382	.097	.429	.055	.139
	L_UNEMP	.000	.175	.006	.000	.000
	Real_GDP	.073	.496	.030	.135	.213
	arable	.000	.273	.011	.001	.008
	permanent	.027	.240	.335	.063	.034
	others	.000	.331	.013	.000	.003
	GDPagr	.356	.370	.031	.347	.385
	GDPind	.015	.115	.030	.425	.400
	GDPser	.022	.154	.023	.457	.426
	LABagr	.238	.090	.147	.122	.213
	LABind	.092	.485	.383	.019	.006
	LABser	.080	.164	.219	.023	.018
	Geo_Pop_Conc	.001	.179	.003	.000	.014
	Eld_Pop_Conc	.001	.075	.002	.000	.007
	GDP_GINI	.492	.116	.474	.209	.237
	Unemploy_GINI	.233	.446	.250	.413	.143
	Income_GINI	.307	.001	.315	.462	.076
	Urban_pop	.409	.340	.122	.073	.006
	Urban_rate	.004	.271	.024	.118	.001
	VitPre	.047	.334	.310	.176	.001
	FearCrime	.057	.027	.186	.022	.056
	RuleofLaw	.075	.007	.436	.089	.303
	Satisfactory	.000	.406	.082	.027	.019

Correlation Matrix

		POP_DEN	PECR	ENROL	L_UNEMP	Real_GDP
Sig. (1-tailed)	ENROL	.230	.358		.215	.261
	L_UNEMP	.006	.058	.215		.035
	Real_GDP	.009	.118	.261	.035	
	arable	.070	.102	.219	.002	.493
	permanent	.483	.414	.255	.014	.083
	others	.087	.128	.205	.001	.391
	GDPagr	.025	.424	.085	.334	.008
	GDPind	.055	.128	.104	.185	.011
	GDPser	.040	.144	.089	.228	.007
	LABagr	.209	.460	.023	.159	.161
	LABind	.457	.207	.009	.014	.452
	LABser	.305	.278	.003	.028	.254
	Geo_Pop_Conc	.010	.297	.221	.000	.365
	Eld_Pop_Conc	.009	.461	.186	.001	.306
	GDP_GINI	.498	.259	.006	.462	.358
	Unemploy_GINI	.219	.338	.044	.088	.006
	Income_GINI	.471	.209	.082	.221	.484
	Urban_pop	.212	.256	.031	.041	.376
	Urban_rate	.009	.339	.494	.001	.062
	VitPre	.429	.239	.214	.031	.177
	FearCrime	.125	.498	.059	.009	.302
	RuleofLaw	.484	.486	.002	.146	.400
	Satisfactory	.038	.013	.185	.000	.041

Correlation Matrix

		arable	permanent	others	GDPagr	GDPind
Sig. (1-tailed)	ENROL	.219	.255	.205	.085	.104
	L_UNEMP	.002	.014	.001	.334	.185
	Real_GDP	.493	.083	.391	.008	.011
	arable		.265	.000	.488	.161
	permanent	.265		.051	.082	.167
	others	.000	.051		.387	.138
	GDPagr	.488	.082	.387		.002
	GDPind	.161	.167	.138	.002	
	GDPser	.183	.258	.174	.000	.000
	LABagr	.302	.097	.223	.000	.117
	LABind	.056	.082	.036	.093	.092
	LABser	.094	.030	.049	.001	.091
	Geo_Pop_Conc	.000	.426	.000	.384	.405
	Eld_Pop_Conc	.001	.259	.001	.373	.378
	GDP_GINI	.206	.469	.219	.066	.181
	Unemploy_GINI	.291	.024	.179	.170	.271
	Income_GINI	.238	.232	.286	.151	.186
	Urban_pop	.491	.039	.349	.001	.040
	Urban_rate	.025	.313	.024	.029	.077
	VitPre	.294	.003	.138	.365	.242
	FearCrime	.213	.001	.088	.079	.278
	RuleofLaw	.131	.015	.064	.010	.487
	Satisfactory	.008	.073	.004	.388	.100

Correlation Matrix

		GDPser	LABagr	LABind	LABser	Geo_Pop_ Conc
Sig. (1-tailed)	ENROL	.089	.023	.009	.003	.221
	L_UNEMP	.228	.159	.014	.028	.000
	Real_GDP	.007	.161	.452	.254	.365
	arable	.183	.302	.056	.094	.000
	permanent	.258	.097	.082	.030	.426
	others	.174	.223	.036	.049	.000
	GDPagr	.000	.000	.093	.001	.384
	GDPind	.000	.117	.092	.091	.405
	GDPser		.054	.081	.049	.398
	LABagr	.054		.069	.000	.321
	LABind	.081	.069		.000	.034
	LABser	.049	.000	.000		.103
	Geo_Pop_Conc	.398	.321	.034	.103	
	Eld_Pop_Conc	.372	.314	.026	.086	.000
	GDP_GINI	.147	.003	.348	.036	.457
	Unemploy_GINI	.237	.310	.146	.356	.293
	Income_GINI	.264	.020	.432	.114	.137
	Urban_pop	.020	.001	.003	.000	.193
	Urban_rate	.055	.254	.046	.248	.035
	VitPre	.284	.276	.004	.013	.353
	FearCrime	.379	.003	.049	.002	.333
	RuleofLaw	.355	.000	.043	.000	.297
	Satisfactory	.135	.171	.216	.143	.009

Correlation Matrix

		Eld_Pop_ Conc	GDP_GINI	Unemploy_ GINI	Income_GINI
Sig. (1-tailed)	ENROL	.186	.006	.044	.082
	L_UNEMP	.001	.462	.088	.221
	Real_GDP	.306	.358	.006	.484
	arable	.001	.206	.291	.238
	permanent	.259	.469	.024	.232
	others	.001	.219	.179	.286
	GDPagr	.373	.066	.170	.151
	GDPind	.378	.181	.271	.186
	GDPser	.372	.147	.237	.264
	LABagr	.314	.003	.310	.020
	LABind	.026	.348	.146	.432
	LABser	.086	.036	.356	.114
	Geo_Pop_Conc	.000	.457	.293	.137
	Eld_Pop_Conc		.449	.348	.209
	GDP_GINI	.449		.095	.011
	Unemploy_GINI	.348	.095		.493
	Income_GINI	.209	.011	.493	
	Urban_pop	.101	.415	.402	.205
	Urban_rate	.079	.247	.042	.122
	VitPre	.274	.108	.187	.396
	FearCrime	.304	.062	.107	.021
	RuleofLaw	.256	.001	.189	.002
	Satisfactory	.017	.458	.287	.498

Correlation Matrix

		Urban_pop	Urban_rate	VitPre	FearCrime
Sig. (1-tailed)	ENROL	.031	.494	.214	.059
	L_UNEMP	.041	.001	.031	.009
	Real_GDP	.376	.062	.177	.302
	arable	.491	.025	.294	.213
	permanent	.039	.313	.003	.001
	others	.349	.024	.138	.088
	GDPagr	.001	.029	.365	.079
	GDPind	.040	.077	.242	.278
	GDPser	.020	.055	.284	.379
	LABagr	.001	.254	.276	.003
	LABind	.003	.046	.004	.049
	LABser	.000	.248	.013	.002
	Geo_Pop_Conc	.193	.035	.353	.333
	Eld_Pop_Conc	.101	.079	.274	.304
	GDP_GINI	.415	.247	.108	.062
	Unemploy_GINI	.402	.042	.187	.107
	Income_GINI	.205	.122	.396	.021
	Urban_pop		.453	.008	.054
	Urban_rate	.453		.013	.184
	VitPre	.008	.013		.094
	FearCrime	.054	.184	.094	
	RuleofLaw	.071	.421	.158	.000
	Satisfactory	.113	.012	.105	.069

Correlation Matrix

		RuleofLaw	Satisfactory
Sig. (1-tailed)	ENROL	.002	.185
	L_UNEMP	.146	.000
	Real_GDP	.400	.041
	arable	.131	.008
	permanent	.015	.073
	others	.064	.004
	GDPagr	.010	.388
	GDPind	.487	.100
	GDPser	.355	.135
	LABagr	.000	.171
	LABind	.043	.216
	LABser	.000	.143
	Geo_Pop_Conc	.297	.009
	Eld_Pop_Conc	.256	.017
	GDP_GINI	.001	.458
	Unemploy_GINI	.189	.287
	Income_GINI	.002	.498
	Urban_pop	.071	.113
	Urban_rate	.421	.012
	VitPre	.158	.105
	FearCrime	.000	.069
	RuleofLaw		.043
	Satisfactory	.043	

Correlation Matrix – Pairwise

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FACTOR
  /VARIABLES ECORISK NBI ANTH40 ANTH10 GR2050 POP_DEN PECR ENROL L_UNEMP R
eal_GDP arable permanent others GDPagr GDPind GDPser LABag
   r LABind LABser Geo_Pop_Conc Eld_Pop_Conc GDP_GINI Unemploy_GINI Income
_GINI Urban_pop Urban_rate VitPre FearCrime
RuleofLaw Satisfactory
  /MISSING PAIRWISE
  /ANALYSIS ECORISK NBI ANTH40 ANTH10 GR2050 POP_DEN PECR ENROL L_UNEMP Re
al_GDP arable permanent others GDPagr GDPind GDPser LABagr
    LABind LABser Geo_Pop_Conc Eld_Pop_Conc GDP_GINI Unemploy_GINI Income_
GINI Urban_pop Urban_rate VitPre FearCrime RuleofLaw
Satisfactory
  /PRINT UNIVARIATE INITIAL CORRELATION SIG EXTRACTION ROTATION
  /PLOT EIGEN
  /CRITERIA MINEIGEN(1) ITERATE(25)
  /EXTRACTION PC
  /CRITERIA ITERATE(25)
  /ROTATION VARIMAX
  /METHOD=CORRELATION.
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Factor Analysis

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[DataSet1] E:\Factor Analysis\2005_original_data_add_comp_add_countries_1.
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Descriptive Statistics

	Mean	Std. Deviation	Analysis N	Missing N
ECORISK	58.0003	38.79882	33	0
NBI	.4833	.17374	33	0
ANTH40	11.0130	8.53931	33	0
ANTH10	16.9342	27.88863	33	0
GR2050	6.0909	20.16086	33	0
POP_DEN	152.0830	151.25904	33	0
PECR	97.8467	3.47333	33	0
ENROL	51.2679	15.65437	33	0
L_UNEMP	32.1750	17.87048	32	1
Real_GDP	3.4818	2.26667	33	0
arable	20.2230	13.20097	33	0
permanent	2.2136	2.89020	33	0
others	77.4442	13.73903	33	0
GDPagr	2.9303	2.04962	33	0

Descriptive Statistics

	Mean	Std. Deviation	Analysis N	Missing N
GDPind	30.2848	6.75200	33	0
GDPser	66.7212	8.03231	33	0
LABagr	6.8455	8.65545	33	0
LABind	26.1685	6.05511	33	0
LABser	66.8373	10.68170	33	0
Geo_Pop_Conc	39.3103	15.26224	29	4
Eld_Pop_Conc	37.7586	16.18786	29	4
GDP_GINI	.1481	.05060	26	7
Unemploy_GINI	.1758	.06680	33	0
Income_GINI	32.4030	6.65890	33	0
Urban_pop	.7403	.13040	33	0
Urban_rate	.0085	.00791	33	0
VitPre	15.4423	4.02066	26	7
FearCrime	25.2917	8.78971	24	9
RuleofLaw	1.2882	.66449	33	0
Satisfactory	37.0290	21.50834	31	2

Correlation Matrix

		ECORISK	NBI	ANTH40	ANTH10	GR2050
Correlation	ECORISK	1.000	.102	.311	-.598	-.466
	NBI	.102	1.000	-.098	-.037	.240
	ANTH40	.311	-.098	1.000	-.648	-.285
	ANTH10	-.598	-.037	-.648	1.000	.475
	GR2050	-.466	.240	-.285	.475	1.000
	POP_DEN	.173	.006	.834	-.528	-.235
	PECR	-.123	.081	.082	-.001	-.351
	ENROL	-.114	-.370	.180	.185	.053
	L_UNEMP	.657	.020	.314	-.604	-.558
	Real_GDP	-.088	.179	-.346	.173	.227
	arable	.696	-.024	.441	-.627	-.412
	permanent	.410	.183	.044	-.268	-.170
	others	-.744	-.011	-.425	.650	.424
	GDPagr	-.015	.254	-.468	.135	.228
	GDPind	-.199	.075	-.309	-.052	-.059
	GDPser	.165	-.128	.379	.013	-.003
	LABagr	.086	.430	-.316	-.048	.096
	LABind	.327	.088	.075	-.442	-.619

Correlation Matrix

		POP_DEN	PECR	ENROL	L_UNEMP	Real_GDP
Correlation	ECORISK	.173	-.123	-.114	.657	-.088
	NBI	.006	.081	-.370	.020	.179
	ANTH40	.834	.082	.180	.314	-.346
	ANTH10	-.528	-.001	.185	-.604	.173
	GR2050	-.235	-.351	.053	-.558	.227
	POP_DEN	1.000	.062	.158	.086	-.132
	PECR	.062	1.000	.300	-.228	-.382
	ENROL	.158	.300	1.000	-.442	-.457
	L_UNEMP	.086	-.228	-.442	1.000	-.035
	Real_GDP	-.132	-.382	-.457	-.035	1.000
	arable	.223	-.090	-.221	.557	-.005
	permanent	-.047	.002	-.053	.317	-.136
	others	-.196	.081	.214	-.592	.036
	GDPagr	-.249	-.340	-.531	-.019	.765
	GDPind	-.049	.128	-.388	-.047	.525
	GDPser	.106	-.026	.473	.037	-.646
	LABagr	-.090	-.230	-.579	.118	.612
	LABind	.134	.246	-.287	.510	.127

Correlation Matrix

		arable	permanent	others	GDPagr	GDPind
Correlation	ECORISK	.696	.410	-.744	-.015	-.199
	NBI	-.024	.183	-.011	.254	.075
	ANTH40	.441	.044	-.425	-.468	-.309
	ANTH10	-.627	-.268	.650	.135	-.052
	GR2050	-.412	-.170	.424	.228	-.059
	POP_DEN	.223	-.047	-.196	-.249	-.049
	PECR	-.090	.002	.081	-.340	.128
	ENROL	-.221	-.053	.214	-.531	-.388
	L_UNEMP	.557	.317	-.592	-.019	-.047
	Real_GDP	-.005	-.136	.036	.765	.525
	arable	1.000	.130	-.978	-.070	-.132
	permanent	.130	1.000	-.331	.160	-.191
	others	-.978	-.331	1.000	.035	.158
	GDPagr	-.070	.160	.035	1.000	.495
	GDPind	-.132	-.191	.158	.495	1.000
	GDPser	.119	.119	-.132	-.669	-.976
	LABagr	.058	.117	-.076	.890	.431
	LABind	.395	.101	-.394	-.070	.288

Correlation Matrix

		GDPser	LABagr	LABind	LABser	Geo_Pop_ Conc
Correlation	ECORISK	.165	.086	.327	-.274	-.648
	NBI	-.128	.430	.088	-.415	-.061
	ANTH40	.379	-.316	.075	.209	-.484
	ANTH10	.013	-.048	-.442	.293	.754
	GR2050	-.003	.096	-.619	.290	.444
	POP_DEN	.106	-.090	.134	-.005	-.286
	PECR	-.026	-.230	.246	.033	.087
	ENROL	.473	-.579	-.287	.625	.356
	L_UNEMP	.037	.118	.510	-.438	-.740
	Real_GDP	-.646	.612	.127	-.563	-.043
	arable	.119	.058	.395	-.273	-.691
	permanent	.119	.117	.101	-.171	-.097
	others	-.132	-.076	-.394	.292	.681
	GDPagr	-.669	.890	-.070	-.671	.017
	GDPind	-.976	.431	.288	-.495	-.141
	GDPser	1.000	-.586	-.241	.594	.135
	LABagr	-.586	1.000	.020	-.815	-.113
	LABind	-.241	.020	1.000	-.592	-.556

Correlation Matrix

		Eld_Pop_ Conc	GDP_GINI	Unemploy_ GINI	Income_GINI
Correlation	ECORISK	-.664	.188	.109	-.119
	NBI	.063	.296	-.156	.629
	ANTH40	-.526	-.104	-.089	-.098
	ANTH10	.842	-.250	.140	-.003
	GR2050	.491	.205	-.111	.434
	POP_DEN	-.383	.061	-.119	.060
	PECR	.019	-.534	-.297	-.117
	ENROL	.289	-.518	-.437	-.332
	L_UNEMP	-.654	.078	.255	-.204
	Real_GDP	-.017	.473	.107	.203
	arable	-.647	.201	.090	-.104
	permanent	-.192	.059	.248	.180
	others	.657	-.198	-.132	.070
	GDPagr	-.011	.561	.107	.477
	GDPind	-.180	.221	-.055	.010
	GDPser	.176	-.313	.014	-.123
	LABagr	-.122	.651	.026	.609
	LABind	-.529	.165	.092	-.263

Correlation Matrix

		Urban_pop	Urban_rate	VitPre	FearCrime
Correlation	ECORISK	-.183	-.377	-.308	.434
	NBI	-.231	.233	-.169	.528
	ANTH40	.285	-.322	-.130	.262
	ANTH10	.295	.244	.360	-.523
	GR2050	.492	.651	.654	-.354
	POP_DEN	.185	-.202	-.197	.295
	PECR	-.124	-.262	-.300	.288
	ENROL	.488	-.261	.123	-.222
	L_UNEMP	-.526	-.497	-.430	.485
	Real_GDP	-.261	.393	.285	-.385
	arable	-.068	-.274	-.285	.263
	permanent	-.179	-.025	-.405	.613
	others	.100	.267	.364	-.381
	GDPagr	-.428	.616	.174	.071
	GDPind	-.488	.298	.116	-.092
	GDPser	.520	-.400	-.139	.071
	LABagr	-.533	.545	-.131	.556
	LABind	-.541	-.566	-.653	.395

Correlation Matrix

		RuleofLaw	Satisfactory
Correlation	ECORISK	-.331	.528
	NBI	-.577	.037
	ANTH40	.039	.302
	ANTH10	.333	-.351
	GR2050	.031	-.229
	POP_DEN	-.148	.459
	PECR	.200	-.165
	ENROL	.606	-.178
	L_UNEMP	-.318	.432
	Real_GDP	-.519	.060
	arable	-.307	.431
	permanent	-.312	.257
	others	.353	-.465
	GDPagr	-.567	.168
	GDPind	-.325	.028
	GDPser	.423	-.073
	LABagr	-.693	.216
	LABind	-.396	.070

Correlation Matrix

		ECORISK	NBI	ANTH40	ANTH10	GR2050
Correlation	LABser	-.274	-.415	.209	.293	.290
	Geo_Pop_Conc	-.648	-.061	-.484	.754	.444
	Eld_Pop_Conc	-.664	.063	-.526	.842	.491
	GDP_GINI	.188	.296	-.104	-.250	.205
	Unemploy_GINI	.109	-.156	-.089	.140	-.111
	Income_GINI	-.119	.629	-.098	-.003	.434
	Urban_pop	-.183	-.231	.285	.295	.492
	Urban_rate	-.377	.233	-.322	.244	.651
	VitPre	-.308	-.169	-.130	.360	.654
	FearCrime	.434	.528	.262	-.523	-.354
	RuleofLaw	-.331	-.577	.039	.333	.031
	Satisfactory	.528	.037	.302	-.351	-.229
Sig. (1-tailed)	ECORISK		.286	.039	.000	.003
	NBI	.286		.293	.420	.089
	ANTH40	.039	.293		.000	.054
	ANTH10	.000	.420	.000		.003
	GR2050	.003	.089	.054	.003	
	POP_DEN	.168	.487	.000	.001	.094
	PECR	.248	.326	.324	.497	.022
	ENROL	.264	.017	.158	.151	.384
	L_UNEMP	.000	.457	.040	.000	.000
	Real_GDP	.314	.160	.024	.168	.102
	arable	.000	.446	.005	.000	.009
	permanent	.009	.154	.404	.066	.173
	others	.000	.476	.007	.000	.007
	GDPagr	.467	.077	.003	.226	.101
	GDPind	.133	.338	.040	.387	.371
	GDPser	.179	.238	.015	.470	.493
	LABagr	.317	.006	.037	.396	.297
	LABind	.032	.313	.340	.005	.000
	LABser	.062	.008	.122	.049	.051
	Geo_Pop_Conc	.000	.378	.004	.000	.008
	Eld_Pop_Conc	.000	.373	.002	.000	.003
	GDP_GINI	.179	.071	.306	.109	.158
	Unemploy_GINI	.273	.193	.312	.218	.269
	Income_GINI	.255	.000	.293	.492	.006
	Urban_pop	.155	.098	.054	.048	.002
	Urban_rate	.015	.096	.034	.086	.000
	VitPre	.063	.205	.263	.035	.000
	FearCrime	.017	.004	.109	.004	.045

Correlation Matrix

		POP_DEN	PECR	ENROL	L_UNEMP	Real_GDP
Correlation	LABser	-.005	.033	.625	-.438	-.563
	Geo_Pop_Conc	-.286	.087	.356	-.740	-.043
	Eld_Pop_Conc	-.383	.019	.289	-.654	-.017
	GDP_GINI	.061	-.534	-.518	.078	.473
	Unemploy_GINI	-.119	-.297	-.437	.255	.107
	Income_GINI	.060	-.117	-.332	-.204	.203
	Urban_pop	.185	-.124	.488	-.526	-.261
	Urban_rate	-.202	-.262	-.261	-.497	.393
	VitPre	-.197	-.300	.123	-.430	.285
	FearCrime	.295	.288	-.222	.485	-.385
	RuleofLaw	-.148	.200	.606	-.318	-.519
	Satisfactory	.459	-.165	-.178	.432	.060
Sig. (1-tailed)	ECORISK	.168	.248	.264	.000	.314
	NBI	.487	.326	.017	.457	.160
	ANTH40	.000	.324	.158	.040	.024
	ANTH10	.001	.497	.151	.000	.168
	GR2050	.094	.022	.384	.000	.102
	POP_DEN		.366	.189	.320	.232
	PECR	.366		.045	.104	.014
	ENROL	.189	.045		.006	.004
	L_UNEMP	.320	.104	.006		.425
	Real_GDP	.232	.014	.004	.425	
	arable	.106	.309	.108	.000	.490
	permanent	.399	.496	.385	.038	.225
	others	.137	.327	.116	.000	.422
	GDPagr	.081	.027	.001	.458	.000
	GDPind	.394	.240	.013	.399	.001
	GDPser	.278	.442	.003	.421	.000
	LABagr	.310	.099	.000	.261	.000
	LABind	.229	.084	.052	.001	.240
	LABser	.489	.429	.000	.006	.000
	Geo_Pop_Conc	.067	.326	.029	.000	.413
	Eld_Pop_Conc	.020	.462	.064	.000	.465
	GDP_GINI	.383	.002	.003	.352	.007
	Unemploy_GINI	.256	.047	.005	.079	.277
	Income_GINI	.369	.258	.029	.131	.128
	Urban_pop	.151	.245	.002	.001	.071
	Urban_rate	.129	.071	.071	.002	.012
	VitPre	.167	.068	.275	.014	.079
	FearCrime	.081	.086	.149	.008	.031

Correlation Matrix

		arable	permanent	others	GDPagr	GDPind
Correlation	LABser	-.273	-.171	.292	-.671	-.495
	Geo_Pop_Conc	-.691	-.097	.681	.017	-.141
	Eld_Pop_Conc	-.647	-.192	.657	-.011	-.180
	GDP_GINI	.201	.059	-.198	.561	.221
	Unemploy_GINI	.090	.248	-.132	.107	-.055
	Income_GINI	-.104	.180	.070	.477	.010
	Urban_pop	-.068	-.179	.100	-.428	-.488
	Urban_rate	-.274	-.025	.267	.616	.298
	VitPre	-.285	-.405	.364	.174	.116
	FearCrime	.263	.613	-.381	.071	-.092
	RuleofLaw	-.307	-.312	.353	-.567	-.325
	Satisfactory	.431	.257	-.465	.168	.028
Sig. (1-tailed)	ECORISK	.000	.009	.000	.467	.133
	NBI	.446	.154	.476	.077	.338
	ANTH40	.005	.404	.007	.003	.040
	ANTH10	.000	.066	.000	.226	.387
	GR2050	.009	.173	.007	.101	.371
	POP_DEN	.106	.399	.137	.081	.394
	PECR	.309	.496	.327	.027	.240
	ENROL	.108	.385	.116	.001	.013
	L_UNEMP	.000	.038	.000	.458	.399
	Real_GDP	.490	.225	.422	.000	.001
	arable		.235	.000	.350	.231
	permanent	.235		.030	.186	.144
	others	.000	.030		.423	.190
	GDPagr	.350	.186	.423		.002
	GDPind	.231	.144	.190	.002	
	GDPser	.254	.255	.232	.000	.000
	LABagr	.374	.259	.336	.000	.006
	LABind	.011	.288	.012	.349	.052
	LABser	.062	.170	.050	.000	.002
	Geo_Pop_Conc	.000	.308	.000	.466	.234
	Eld_Pop_Conc	.000	.159	.000	.477	.174
	GDP_GINI	.163	.387	.166	.001	.138
	Unemploy_GINI	.308	.082	.232	.277	.380
	Income_GINI	.282	.158	.349	.003	.477
	Urban_pop	.353	.159	.290	.006	.002
	Urban_rate	.062	.444	.067	.000	.046
	VitPre	.079	.020	.034	.197	.287
	FearCrime	.108	.001	.033	.372	.335

Correlation Matrix

		GDPser	LABagr	LABind	LABser	Geo_Pop_ Conc
Correlation	LABser	.594	-.815	-.592	1.000	.432
	Geo_Pop_Conc	.135	-.113	-.556	.432	1.000
	Eld_Pop_Conc	.176	-.122	-.529	.422	.942
	GDP_GINI	-.313	.651	.165	-.572	-.141
	Unemploy_GINI	.014	.026	.092	-.075	.111
	Income_GINI	-.123	.609	-.263	-.339	.168
	Urban_pop	.520	-.533	-.541	.741	.388
	Urban_rate	-.400	.545	-.566	-.097	.414
	VitPre	-.139	-.131	-.653	.559	.171
	FearCrime	.071	.556	.395	-.609	-.252
	RuleofLaw	.423	-.693	-.396	.792	.288
	Satisfactory	-.073	.216	.070	-.211	-.370
Sig. (1-tailed)	ECORISK	.179	.317	.032	.062	.000
	NBI	.238	.006	.313	.008	.378
	ANTH40	.015	.037	.340	.122	.004
	ANTH10	.470	.396	.005	.049	.000
	GR2050	.493	.297	.000	.051	.008
	POP_DEN	.278	.310	.229	.489	.067
	PECR	.442	.099	.084	.429	.326
	ENROL	.003	.000	.052	.000	.029
	L_UNEMP	.421	.261	.001	.006	.000
	Real_GDP	.000	.000	.240	.000	.413
	arable	.254	.374	.011	.062	.000
	permanent	.255	.259	.288	.170	.308
	others	.232	.336	.012	.050	.000
	GDPagr	.000	.000	.349	.000	.466
	GDPind	.000	.006	.052	.002	.234
	GDPser		.000	.088	.000	.242
	LABagr	.000		.455	.000	.279
	LABind	.088	.455		.000	.001
	LABser	.000	.000	.000		.010
	Geo_Pop_Conc	.242	.279	.001	.010	
	Eld_Pop_Conc	.181	.264	.002	.011	.000
	GDP_GINI	.060	.000	.210	.001	.246
	Unemploy_GINI	.468	.443	.305	.338	.284
	Income_GINI	.248	.000	.070	.027	.191
	Urban_pop	.001	.001	.001	.000	.019
	Urban_rate	.011	.001	.000	.296	.013
	VitPre	.249	.262	.000	.002	.207
	FearCrime	.371	.002	.028	.001	.118

Correlation Matrix

		Eld_Pop_ Conc	GDP_GINI	Unemploy_ GINI	Income_GINI
Correlation	LABser	.422	-.572	-.075	-.339
	Geo_Pop_Conc	.942	-.141	.111	.168
	Eld_Pop_Conc	1.000	-.151	.112	.123
	GDP_GINI	-.151	1.000	.346	.458
	Unemploy_GINI	.112	.346	1.000	-.087
	Income_GINI	.123	.458	-.087	1.000
	Urban_pop	.408	-.179	.049	-.148
	Urban_rate	.340	.225	-.108	.573
	VitPre	.182	.274	-.013	.020
	FearCrime	-.252	.338	-.030	.495
	RuleofLaw	.298	-.743	-.147	-.523
	Satisfactory	-.387	-.056	.126	.098
Sig. (1-tailed)	ECORISK	.000	.179	.273	.255
	NBI	.373	.071	.193	.000
	ANTH40	.002	.306	.312	.293
	ANTH10	.000	.109	.218	.492
	GR2050	.003	.158	.269	.006
	POP_DEN	.020	.383	.256	.369
	PECR	.462	.002	.047	.258
	ENROL	.064	.003	.005	.029
	L_UNEMP	.000	.352	.079	.131
	Real_GDP	.465	.007	.277	.128
	arable	.000	.163	.308	.282
	permanent	.159	.387	.082	.158
	others	.000	.166	.232	.349
	GDPagr	.477	.001	.277	.003
	GDPind	.174	.138	.380	.477
	GDPser	.181	.060	.468	.248
	LABagr	.264	.000	.443	.000
	LABind	.002	.210	.305	.070
	LABser	.011	.001	.338	.027
	Geo_Pop_Conc	.000	.246	.284	.191
	Eld_Pop_Conc		.230	.281	.262
	GDP_GINI	.230		.042	.009
	Unemploy_GINI	.281	.042		.315
	Income_GINI	.262	.009	.315	
	Urban_pop	.014	.191	.393	.205
	Urban_rate	.035	.135	.276	.000
	VitPre	.192	.108	.475	.462
	FearCrime	.117	.062	.445	.007

Correlation Matrix

		Urban_pop	Urban_rate	VitPre	FearCrime
Correlation	LABser	.741	-.097	.559	-.609
	Geo_Pop_Conc	.388	.414	.171	-.252
	Eld_Pop_Conc	.408	.340	.182	-.252
	GDP_GINI	-.179	.225	.274	.338
	Unemploy_GINI	.049	-.108	-.013	-.030
	Income_GINI	-.148	.573	.020	.495
	Urban_pop	1.000	.049	.537	-.407
	Urban_rate	.049	1.000	.491	-.200
	VitPre	.537	.491	1.000	-.338
	FearCrime	-.407	-.200	-.338	1.000
	RuleofLaw	.466	-.167	.353	-.662
	Satisfactory	-.143	-.070	-.314	.310
Sig. (1-tailed)	ECORISK	.155	.015	.063	.017
	NBI	.098	.096	.205	.004
	ANTH40	.054	.034	.263	.109
	ANTH10	.048	.086	.035	.004
	GR2050	.002	.000	.000	.045
	POP_DEN	.151	.129	.167	.081
	PECR	.245	.071	.068	.086
	ENROL	.002	.071	.275	.149
	L_UNEMP	.001	.002	.014	.008
	Real_GDP	.071	.012	.079	.031
	arable	.353	.062	.079	.108
	permanent	.159	.444	.020	.001
	others	.290	.067	.034	.033
	GDPagr	.006	.000	.197	.372
	GDPind	.002	.046	.287	.335
	GDPser	.001	.011	.249	.371
	LABagr	.001	.001	.262	.002
	LABind	.001	.000	.000	.028
	LABser	.000	.296	.002	.001
	Geo_Pop_Conc	.019	.013	.207	.118
	Eld_Pop_Conc	.014	.035	.192	.117
	GDP_GINI	.191	.135	.108	.062
	Unemploy_GINI	.393	.276	.475	.445
	Income_GINI	.205	.000	.462	.007
	Urban_pop		.394	.002	.024
	Urban_rate	.394		.005	.174
	VitPre	.002	.005		.053
	FearCrime	.024	.174	.053	

Correlation Matrix

		RuleofLaw	Satisfactory
Correlation	LABser	.792	-.211
	Geo_Pop_Conc	.288	-.370
	Eld_Pop_Conc	.298	-.387
	GDP_GINI	-.743	-.056
	Unemploy_GINI	-.147	.126
	Income_GINI	-.523	.098
	Urban_pop	.466	-.143
	Urban_rate	-.167	-.070
	VitPre	.353	-.314
	FearCrime	-.662	.310
	RuleofLaw	1.000	-.399
	Satisfactory	-.399	1.000
Sig. (1-tailed)	ECORISK	.030	.001
	NBI	.000	.422
	ANTH40	.415	.049
	ANTH10	.029	.026
	GR2050	.431	.108
	POP_DEN	.206	.005
	PECR	.132	.187
	ENROL	.000	.169
	L_UNEMP	.038	.009
	Real_GDP	.001	.375
	arable	.041	.008
	permanent	.038	.082
	others	.022	.004
	GDPagr	.000	.183
	GDPind	.032	.440
	GDPser	.007	.348
	LABagr	.000	.122
	LABind	.011	.354
	LABser	.000	.127
	Geo_Pop_Conc	.065	.026
	Eld_Pop_Conc	.058	.021
	GDP_GINI	.000	.394
	Unemploy_GINI	.207	.250
	Income_GINI	.001	.301
	Urban_pop	.003	.222
	Urban_rate	.177	.353
	VitPre	.039	.068
	FearCrime	.000	.075

Correlation Matrix

		ECORISK	NBI	ANTH40	ANTH10	GR2050
Sig. (1-tailed)	RuleofLaw	.030	.000	.415	.029	.431
	Satisfactory	.001	.422	.049	.026	.108

Correlation Matrix

		POP_DEN	PECR	ENROL	L_UNEMP	Real_GDP
Sig. (1-tailed)	RuleofLaw	.206	.132	.000	.038	.001
	Satisfactory	.005	.187	.169	.009	.375

Correlation Matrix

		arable	permanent	others	GDPagr	GDPind
Sig. (1-tailed)	RuleofLaw	.041	.038	.022	.000	.032
	Satisfactory	.008	.082	.004	.183	.440

Correlation Matrix

		GDPser	LABagr	LABind	LABser	Geo_Pop_ Conc
Sig. (1-tailed)	RuleofLaw	.007	.000	.011	.000	.065
	Satisfactory	.348	.122	.354	.127	.026

Correlation Matrix

		Eld_Pop_ Conc	GDP_GINI	Unemploy_ GINI	Income_GINI
Sig. (1-tailed)	RuleofLaw	.058	.000	.207	.001
	Satisfactory	.021	.394	.250	.301

Correlation Matrix

		Urban_pop	Urban_rate	VitPre	FearCrime
Sig. (1-tailed)	RuleofLaw	.003	.177	.039	.000
	Satisfactory	.222	.353	.068	.075

Correlation Matrix

		RuleofLaw	Satisfactory
Sig. (1-tailed)	RuleofLaw		.013
	Satisfactory	.013	

Total Variance Explained[a]

a. The matrix is not positive definite. This may be due to pairwise deletion of missing values.

Correlation Matrix – Mean Substitution

Correlation Matrix

		ECORISK	NBI	ANTH40	ANTH10	GR2050
Correlation	ECORISK	1.000	.102	.311	-.598	-.466
	NBI	.102	1.000	-.098	-.037	.240
	ANTH40	.311	-.098	1.000	-.648	-.285
	ANTH10	-.598	-.037	-.648	1.000	.475
	GR2050	-.466	.240	-.285	.475	1.000
	POP_DEN	.173	.006	.834	-.528	-.235
	PECR	-.123	.081	.082	-.001	-.351
	ENROL	-.114	-.370	.180	.185	.053
	L_UNEMP	.654	.019	.307	-.599	-.558
	Real_GDP	-.088	.179	-.346	.173	.227
	arable	.696	-.024	.441	-.627	-.412
	permanent	.410	.183	.044	-.268	-.170
	others	-.744	-.011	-.425	.650	.424
	GDPagr	-.015	.254	-.468	.135	.228
	GDPind	-.199	.075	-.309	-.052	-.059
	GDPser	.165	-.128	.379	.013	-.003
	LABagr	.086	.430	-.316	-.048	.096
	LABind	.327	.088	.075	-.442	-.619
	LABser	-.274	-.415	.209	.293	.290
	Geo_Pop_Conc	-.613	-.055	-.421	.736	.388
	Eld_Pop_Conc	-.628	.058	-.459	.822	.429
	GDP_GINI	.169	.248	-.086	-.210	.171
	Unemploy_GINI	.109	-.156	-.089	.140	-.111
	Income_GINI	-.119	.629	-.098	-.003	.434
	Urban_pop	-.183	-.231	.285	.295	.492
	Urban_rate	-.377	.233	-.322	.244	.651
	VitPre	-.279	-.151	-.122	.344	.521
	FearCrime	.378	.473	.224	-.492	-.280
	RuleofLaw	-.331	-.577	.039	.333	.031
	Satisfactory	.487	.034	.272	-.312	-.226
Sig. (1-tailed)	ECORISK		.286	.039	.000	.003
	NBI	.286		.293	.420	.089
	ANTH40	.039	.293		.000	.054
	ANTH10	.000	.420	.000		.003
	GR2050	.003	.089	.054	.003	
	POP_DEN	.168	.487	.000	.001	.094
	PECR	.248	.326	.324	.497	.022

Correlation Matrix

		POP_DEN	PECR	ENROL	L_UNEMP	Real_GDP
Correlation	ECORISK	.173	-.123	-.114	.654	-.088
	NBI	.006	.081	-.370	.019	.179
	ANTH40	.834	.082	.180	.307	-.346
	ANTH10	-.528	-.001	.185	-.599	.173
	GR2050	-.235	-.351	.053	-.558	.227
	POP_DEN	1.000	.062	.158	.086	-.132
	PECR	.062	1.000	.300	-.228	-.382
	ENROL	.158	.300	1.000	-.396	-.457
	L_UNEMP	.086	-.228	-.396	1.000	-.029
	Real_GDP	-.132	-.382	-.457	-.029	1.000
	arable	.223	-.090	-.221	.555	-.005
	permanent	-.047	.002	-.053	.317	-.136
	others	-.196	.081	.214	-.590	.036
	GDPagr	-.249	-.340	-.531	-.014	.765
	GDPind	-.049	.128	-.388	-.041	.525
	GDPser	.106	-.026	.473	.030	-.646
	LABagr	-.090	-.230	-.579	.078	.612
	LABind	.134	.246	-.287	.509	.127
	LABser	-.005	.033	.625	-.355	-.563
	Geo_Pop_Conc	-.225	.080	.311	-.726	-.035
	Eld_Pop_Conc	-.302	.017	.252	-.641	-.014
	GDP_GINI	.046	-.453	-.436	.073	.348
	Unemploy_GINI	-.119	-.297	-.437	.255	.107
	Income_GINI	.060	-.117	-.332	-.188	.203
	Urban_pop	.185	-.124	.488	-.476	-.261
	Urban_rate	-.202	-.262	-.261	-.434	.393
	VitPre	-.174	-.181	.084	-.356	.166
	FearCrime	.192	.165	-.145	.396	-.221
	RuleofLaw	-.148	.200	.606	-.290	-.519
	Satisfactory	.368	-.157	-.175	.405	.057
Sig. (1-tailed)	ECORISK	.168	.248	.264	.000	.314
	NBI	.487	.326	.017	.459	.160
	ANTH40	.000	.324	.158	.041	.024
	ANTH10	.001	.497	.151	.000	.168
	GR2050	.094	.022	.384	.000	.102
	POP_DEN		.366	.189	.317	.232
	PECR	.366		.045	.101	.014

Correlation Matrix

		arable	permanent	others	GDPagr	GDPind
Correlation	ECORISK	.696	.410	-.744	-.015	-.199
	NBI	-.024	.183	-.011	.254	.075
	ANTH40	.441	.044	-.425	-.468	-.309
	ANTH10	-.627	-.268	.650	.135	-.052
	GR2050	-.412	-.170	.424	.228	-.059
	POP_DEN	.223	-.047	-.196	-.249	-.049
	PECR	-.090	.002	.081	-.340	.128
	ENROL	-.221	-.053	.214	-.531	-.388
	L_UNEMP	.555	.317	-.590	-.014	-.041
	Real_GDP	-.005	-.136	.036	.765	.525
	arable	1.000	.130	-.978	-.070	-.132
	permanent	.130	1.000	-.331	.160	-.191
	others	-.978	-.331	1.000	.035	.158
	GDPagr	-.070	.160	.035	1.000	.495
	GDPind	-.132	-.191	.158	.495	1.000
	GDPser	.119	.119	-.132	-.669	-.976
	LABagr	.058	.117	-.076	.890	.431
	LABind	.395	.101	-.394	-.070	.288
	LABser	-.273	-.171	.292	-.671	-.495
	Geo_Pop_Conc	-.678	-.096	.668	.012	-.120
	Eld_Pop_Conc	-.634	-.190	.645	-.008	-.154
	GDP_GINI	.180	.055	-.179	.382	.185
	Unemploy_GINI	.090	.248	-.132	.107	-.055
	Income_GINI	-.104	.180	.070	.477	.010
	Urban_pop	-.068	-.179	.100	-.428	-.488
	Urban_rate	-.274	-.025	.267	.616	.298
	VitPre	-.265	-.399	.339	.093	.088
	FearCrime	.242	.601	-.350	.037	-.069
	RuleofLaw	-.307	-.312	.353	-.567	-.325
	Satisfactory	.414	.253	-.444	.164	.028
Sig. (1-tailed)	ECORISK	.000	.009	.000	.467	.133
	NBI	.446	.154	.476	.077	.338
	ANTH40	.005	.404	.007	.003	.040
	ANTH10	.000	.066	.000	.226	.387
	GR2050	.009	.173	.007	.101	.371
	POP_DEN	.106	.399	.137	.081	.394
	PECR	.309	.496	.327	.027	.240

Correlation Matrix

		GDPser	LABagr	LABind	LABser	Geo_Pop_ Conc
Correlation	ECORISK	.165	.086	.327	-.274	-.613
	NBI	-.128	.430	.088	-.415	-.055
	ANTH40	.379	-.316	.075	.209	-.421
	ANTH10	.013	-.048	-.442	.293	.736
	GR2050	-.003	.096	-.619	.290	.388
	POP_DEN	.106	-.090	.134	-.005	-.225
	PECR	-.026	-.230	.246	.033	.080
	ENROL	.473	-.579	-.287	.625	.311
	L_UNEMP	.030	.078	.509	-.355	-.726
	Real_GDP	-.646	.612	.127	-.563	-.035
	arable	.119	.058	.395	-.273	-.678
	permanent	.119	.117	.101	-.171	-.096
	others	-.132	-.076	-.394	.292	.668
	GDPagr	-.669	.890	-.070	-.671	.012
	GDPind	-.976	.431	.288	-.495	-.120
	GDPser	1.000	-.586	-.241	.594	.108
	LABagr	-.586	1.000	.020	-.815	-.074
	LABind	-.241	.020	1.000	-.592	-.474
	LABser	.594	-.815	-.592	1.000	.321
	Geo_Pop_Conc	.108	-.074	-.474	.321	1.000
	Eld_Pop_Conc	.140	-.080	-.451	.314	.942
	GDP_GINI	-.248	.424	.131	-.405	-.132
	Unemploy_GINI	.014	.026	.092	-.075	.106
	Income_GINI	-.123	.609	-.263	-.339	.147
	Urban_pop	.520	-.533	-.541	.741	.307
	Urban_rate	-.400	.545	-.566	-.097	.295
	VitPre	-.098	-.057	-.452	.331	.152
	FearCrime	.049	.240	.241	-.341	-.221
	RuleofLaw	.423	-.693	-.396	.792	.259
	Satisfactory	-.073	.215	.065	-.205	-.321
Sig. (1-tailed)	ECORISK	.179	.317	.032	.062	.000
	NBI	.238	.006	.313	.008	.380
	ANTH40	.015	.037	.340	.122	.007
	ANTH10	.470	.396	.005	.049	.000
	GR2050	.493	.297	.000	.051	.013
	POP_DEN	.278	.310	.229	.489	.104
	PECR	.442	.099	.084	.429	.328

Correlation Matrix

		Eld_Pop_ Conc	GDP_GINI	Unemploy_ GINI	Income_GINI
Correlation	ECORISK	-.628	.169	.109	-.119
	NBI	.058	.248	-.156	.629
	ANTH40	-.459	-.086	-.089	-.098
	ANTH10	.822	-.210	.140	-.003
	GR2050	.429	.171	-.111	.434
	POP_DEN	-.302	.046	-.119	.060
	PECR	.017	-.453	-.297	-.117
	ENROL	.252	-.436	-.437	-.332
	L_UNEMP	-.641	.073	.255	-.188
	Real_GDP	-.014	.348	.107	.203
	arable	-.634	.180	.090	-.104
	permanent	-.190	.055	.248	.180
	others	.645	-.179	-.132	.070
	GDPagr	-.008	.382	.107	.477
	GDPind	-.154	.185	-.055	.010
	GDPser	.140	-.248	.014	-.123
	LABagr	-.080	.424	.026	.609
	LABind	-.451	.131	.092	-.263
	LABser	.314	-.405	-.075	-.339
	Geo_Pop_Conc	.942	-.132	.106	.147
	Eld_Pop_Conc	1.000	-.143	.107	.108
	GDP_GINI	-.143	1.000	.291	.388
	Unemploy_GINI	.107	.291	1.000	-.087
	Income_GINI	.108	.388	-.087	1.000
	Urban_pop	.322	-.132	.049	-.148
	Urban_rate	.242	.159	-.108	.573
	VitPre	.169	.205	-.012	.015
	FearCrime	-.233	.214	-.027	.389
	RuleofLaw	.267	-.630	-.147	-.523
	Satisfactory	-.339	-.051	.110	.096
Sig. (1-tailed)	ECORISK	.000	.173	.273	.255
	NBI	.375	.082	.193	.000
	ANTH40	.004	.317	.312	.293
	ANTH10	.000	.120	.218	.492
	GR2050	.006	.170	.269	.006
	POP_DEN	.044	.399	.256	.369
	PECR	.463	.004	.047	.258

Correlation Matrix

		Urban_pop	Urban_rate	VitPre	FearCrime
Correlation	ECORISK	-.183	-.377	-.279	.378
	NBI	-.231	.233	-.151	.473
	ANTH40	.285	-.322	-.122	.224
	ANTH10	.295	.244	.344	-.492
	GR2050	.492	.651	.521	-.280
	POP_DEN	.185	-.202	-.174	.192
	PECR	-.124	-.262	-.181	.165
	ENROL	.488	-.261	.084	-.145
	L_UNEMP	-.476	-.434	-.356	.396
	Real_GDP	-.261	.393	.166	-.221
	arable	-.068	-.274	-.265	.242
	permanent	-.179	-.025	-.399	.601
	others	.100	.267	.339	-.350
	GDPagr	-.428	.616	.093	.037
	GDPind	-.488	.298	.088	-.069
	GDPser	.520	-.400	-.098	.049
	LABagr	-.533	.545	-.057	.240
	LABind	-.541	-.566	-.452	.241
	LABser	.741	-.097	.331	-.341
	Geo_Pop_Conc	.307	.295	.152	-.221
	Eld_Pop_Conc	.322	.242	.169	-.233
	GDP_GINI	-.132	.159	.205	.214
	Unemploy_GINI	.049	-.108	-.012	-.027
	Income_GINI	-.148	.573	.015	.389
	Urban_pop	1.000	.049	.396	-.298
	Urban_rate	.049	1.000	.307	-.121
	VitPre	.396	.307	1.000	-.328
	FearCrime	-.298	-.121	-.328	1.000
	RuleofLaw	.466	-.167	.262	-.472
	Satisfactory	-.138	-.069	-.257	.231
Sig. (1-tailed)	ECORISK	.155	.015	.058	.015
	NBI	.098	.096	.200	.003
	ANTH40	.054	.034	.250	.105
	ANTH10	.048	.086	.025	.002
	GR2050	.002	.000	.001	.057
	POP_DEN	.151	.129	.166	.143
	PECR	.245	.071	.156	.179

Correlation Matrix

		RuleofLaw	Satisfactory
Correlation	ECORISK	-.331	.487
	NBI	-.577	.034
	ANTH40	.039	.272
	ANTH10	.333	-.312
	GR2050	.031	-.226
	POP_DEN	-.148	.368
	PECR	.200	-.157
	ENROL	.606	-.175
	L_UNEMP	-.290	.405
	Real_GDP	-.519	.057
	arable	-.307	.414
	permanent	-.312	.253
	others	.353	-.444
	GDPagr	-.567	.164
	GDPind	-.325	.028
	GDPser	.423	-.073
	LABagr	-.693	.215
	LABind	-.396	.065
	LABser	.792	-.205
	Geo_Pop_Conc	.259	-.321
	Eld_Pop_Conc	.267	-.339
	GDP_GINI	-.630	-.051
	Unemploy_GINI	-.147	.110
	Income_GINI	-.523	.096
	Urban_pop	.466	-.138
	Urban_rate	-.167	-.069
	VitPre	.262	-.257
	FearCrime	-.472	.231
	RuleofLaw	1.000	-.390
	Satisfactory	-.390	1.000
Sig. (1-tailed)	ECORISK	.030	.002
	NBI	.000	.425
	ANTH40	.415	.063
	ANTH10	.029	.039
	GR2050	.431	.103
	POP_DEN	.206	.018
	PECR	.132	.192

Correlation Matrix

		ECORISK	NBI	ANTH40	ANTH10	GR2050
Sig. (1-tailed)	ENROL	.264	.017	.158	.151	.384
	L_UNEMP	.000	.459	.041	.000	.000
	Real_GDP	.314	.160	.024	.168	.102
	arable	.000	.446	.005	.000	.009
	permanent	.009	.154	.404	.066	.173
	others	.000	.476	.007	.000	.007
	GDPagr	.467	.077	.003	.226	.101
	GDPind	.133	.338	.040	.387	.371
	GDPser	.179	.238	.015	.470	.493
	LABagr	.317	.006	.037	.396	.297
	LABind	.032	.313	.340	.005	.000
	LABser	.062	.008	.122	.049	.051
	Geo_Pop_Conc	.000	.380	.007	.000	.013
	Eld_Pop_Conc	.000	.375	.004	.000	.006
	GDP_GINI	.173	.082	.317	.120	.170
	Unemploy_GINI	.273	.193	.312	.218	.269
	Income_GINI	.255	.000	.293	.492	.006
	Urban_pop	.155	.098	.054	.048	.002
	Urban_rate	.015	.096	.034	.086	.000
	VitPre	.058	.200	.250	.025	.001
	FearCrime	.015	.003	.105	.002	.057
	RuleofLaw	.030	.000	.415	.029	.431
	Satisfactory	.002	.425	.063	.039	.103

Correlation Matrix

		POP_DEN	PECR	ENROL	L_UNEMP	Real_GDP
Sig. (1-tailed)	ENROL	.189	.045		.011	.004
	L_UNEMP	.317	.101	.011		.437
	Real_GDP	.232	.014	.004	.437	
	arable	.106	.309	.108	.000	.490
	permanent	.399	.496	.385	.039	.225
	others	.137	.327	.116	.000	.422
	GDPagr	.081	.027	.001	.469	.000
	GDPind	.394	.240	.013	.412	.001
	GDPser	.278	.442	.003	.436	.000
	LABagr	.310	.099	.000	.336	.000
	LABind	.229	.084	.052	.001	.240
	LABser	.489	.429	.000	.023	.000
	Geo_Pop_Conc	.104	.328	.039	.000	.424
	Eld_Pop_Conc	.044	.463	.078	.000	.470
	GDP_GINI	.399	.004	.006	.346	.023
	Unemploy_GINI	.256	.047	.005	.080	.277
	Income_GINI	.369	.258	.029	.151	.128
	Urban_pop	.151	.245	.002	.003	.071
	Urban_rate	.129	.071	.071	.007	.012
	VitPre	.166	.156	.320	.023	.177
	FearCrime	.143	.179	.210	.012	.108
	RuleofLaw	.206	.132	.000	.054	.001
	Satisfactory	.018	.192	.166	.011	.377

Correlation Matrix

		arable	permanent	others	GDPagr	GDPind
Sig. (1-tailed)	ENROL	.108	.385	.116	.001	.013
	L_UNEMP	.000	.039	.000	.469	.412
	Real_GDP	.490	.225	.422	.000	.001
	arable		.235	.000	.350	.231
	permanent	.235		.030	.186	.144
	others	.000	.030		.423	.190
	GDPagr	.350	.186	.423		.002
	GDPind	.231	.144	.190	.002	
	GDPser	.254	.255	.232	.000	.000
	LABagr	.374	.259	.336	.000	.006
	LABind	.011	.288	.012	.349	.052
	LABser	.062	.170	.050	.000	.002
	Geo_Pop_Conc	.000	.297	.000	.473	.253
	Eld_Pop_Conc	.000	.145	.000	.482	.196
	GDP_GINI	.158	.380	.160	.014	.151
	Unemploy_GINI	.308	.082	.232	.277	.380
	Income_GINI	.282	.158	.349	.003	.477
	Urban_pop	.353	.159	.290	.006	.002
	Urban_rate	.062	.444	.067	.000	.046
	VitPre	.068	.011	.027	.303	.313
	FearCrime	.087	.000	.023	.420	.352
	RuleofLaw	.041	.038	.022	.000	.032
	Satisfactory	.008	.077	.005	.181	.438

Correlation Matrix

		GDPser	LABagr	LABind	LABser	Geo_Pop_ Conc
Sig. (1-tailed)	ENROL	.003	.000	.052	.000	.039
	L_UNEMP	.436	.336	.001	.023	.000
	Real_GDP	.000	.000	.240	.000	.424
	arable	.254	.374	.011	.062	.000
	permanent	.255	.259	.288	.170	.297
	others	.232	.336	.012	.050	.000
	GDPagr	.000	.000	.349	.000	.473
	GDPind	.000	.006	.052	.002	.253
	GDPser		.000	.088	.000	.275
	LABagr	.000		.455	.000	.341
	LABind	.088	.455		.000	.003
	LABser	.000	.000	.000		.034
	Geo_Pop_Conc	.275	.341	.003	.034	
	Eld_Pop_Conc	.218	.329	.004	.038	.000
	GDP_GINI	.082	.007	.234	.010	.248
	Unemploy_GINI	.468	.443	.305	.338	.293
	Income_GINI	.248	.000	.070	.027	.223
	Urban_pop	.001	.001	.001	.000	.053
	Urban_rate	.011	.001	.000	.296	.060
	VitPre	.294	.377	.004	.030	.216
	FearCrime	.393	.090	.088	.026	.124
	RuleofLaw	.007	.000	.011	.000	.088
	Satisfactory	.344	.115	.359	.126	.045

Correlation Matrix

		Eld_Pop_ Conc	GDP_GINI	Unemploy_ GINI	Income_GINI
Sig. (1-tailed)	ENROL	.078	.006	.005	.029
	L_UNEMP	.000	.346	.080	.151
	Real_GDP	.470	.023	.277	.128
	arable	.000	.158	.308	.282
	permanent	.145	.380	.082	.158
	others	.000	.160	.232	.349
	GDPagr	.482	.014	.277	.003
	GDPind	.196	.151	.380	.477
	GDPser	.218	.082	.468	.248
	LABagr	.329	.007	.443	.000
	LABind	.004	.234	.305	.070
	LABser	.038	.010	.338	.027
	Geo_Pop_Conc	.000	.248	.293	.223
	Eld_Pop_Conc		.230	.290	.289
	GDP_GINI	.230		.075	.025
	Unemploy_GINI	.290	.075		.315
	Income_GINI	.289	.025	.315	
	Urban_pop	.044	.261	.393	.205
	Urban_rate	.103	.218	.276	.000
	VitPre	.190	.158	.474	.466
	FearCrime	.112	.146	.440	.013
	RuleofLaw	.080	.000	.207	.001
	Satisfactory	.036	.402	.271	.299

Correlation Matrix

		Urban_pop	Urban_rate	VitPre	FearCrime
Sig. (1-tailed)	ENROL	.002	.071	.320	.210
	L_UNEMP	.003	.007	.023	.012
	Real_GDP	.071	.012	.177	.108
	arable	.353	.062	.068	.087
	permanent	.159	.444	.011	.000
	others	.290	.067	.027	.023
	GDPagr	.006	.000	.303	.420
	GDPind	.002	.046	.313	.352
	GDPser	.001	.011	.294	.393
	LABagr	.001	.001	.377	.090
	LABind	.001	.000	.004	.088
	LABser	.000	.296	.030	.026
	Geo_Pop_Conc	.053	.060	.216	.124
	Eld_Pop_Conc	.044	.103	.190	.112
	GDP_GINI	.261	.218	.158	.146
	Unemploy_GINI	.393	.276	.474	.440
	Income_GINI	.205	.000	.466	.013
	Urban_pop		.394	.011	.046
	Urban_rate	.394		.041	.251
	VitPre	.011	.041		.051
	FearCrime	.046	.251	.051	
	RuleofLaw	.003	.177	.098	.010
	Satisfactory	.223	.351	.103	.139

Correlation Matrix

		RuleofLaw	Satisfactory
Sig. (1-tailed)	ENROL	.000	.166
	L_UNEMP	.054	.011
	Real_GDP	.001	.377
	arable	.041	.008
	permanent	.038	.077
	others	.022	.005
	GDPagr	.000	.181
	GDPind	.032	.438
	GDPser	.007	.344
	LABagr	.000	.115
	LABind	.011	.359
	LABser	.000	.126
	Geo_Pop_Conc	.088	.045
	Eld_Pop_Conc	.080	.036
	GDP_GINI	.000	.402
	Unemploy_GINI	.207	.271
	Income_GINI	.001	.299
	Urban_pop	.003	.223
	Urban_rate	.177	.351
	VitPre	.098	.103
	FearCrime	.010	.139
	RuleofLaw		.012
	Satisfactory	.012	

Final PCA Result

Factor Analysis

[DataSet1] E:\Factor Analysis\2005_original_data_add_comp_add_countries_2.sav

Communalities

	Initial	Extraction
ECORISK	1.000	.771
NBI	1.000	.726
ANTH40	1.000	.915
ANTH10	1.000	.871
GR2050	1.000	.855
POP_DEN	1.000	.946
PECR	1.000	.742
L_UNEMP	1.000	.770
Real_GDP	1.000	.759
arable	1.000	.770
others	1.000	.809
GDPagr	1.000	.914
GDPind	1.000	.873
GDPser	1.000	.923
LABagr	1.000	.889
LABind	1.000	.859
LABser	1.000	.911
Geo_Pop_Conc	1.000	.896
Eld_Pop_Conc	1.000	.896
GDP_GINI	1.000	.840
Unemploy_GINI	1.000	.746
Income_GINI	1.000	.857
Urban_pop	1.000	.820
Urban_rate	1.000	.840
FearCrime	1.000	.743
RuleofLaw	1.000	.896
Satisfactory	1.000	.833

Extraction Method: Principal Component Analysis.

Total Variance Explained

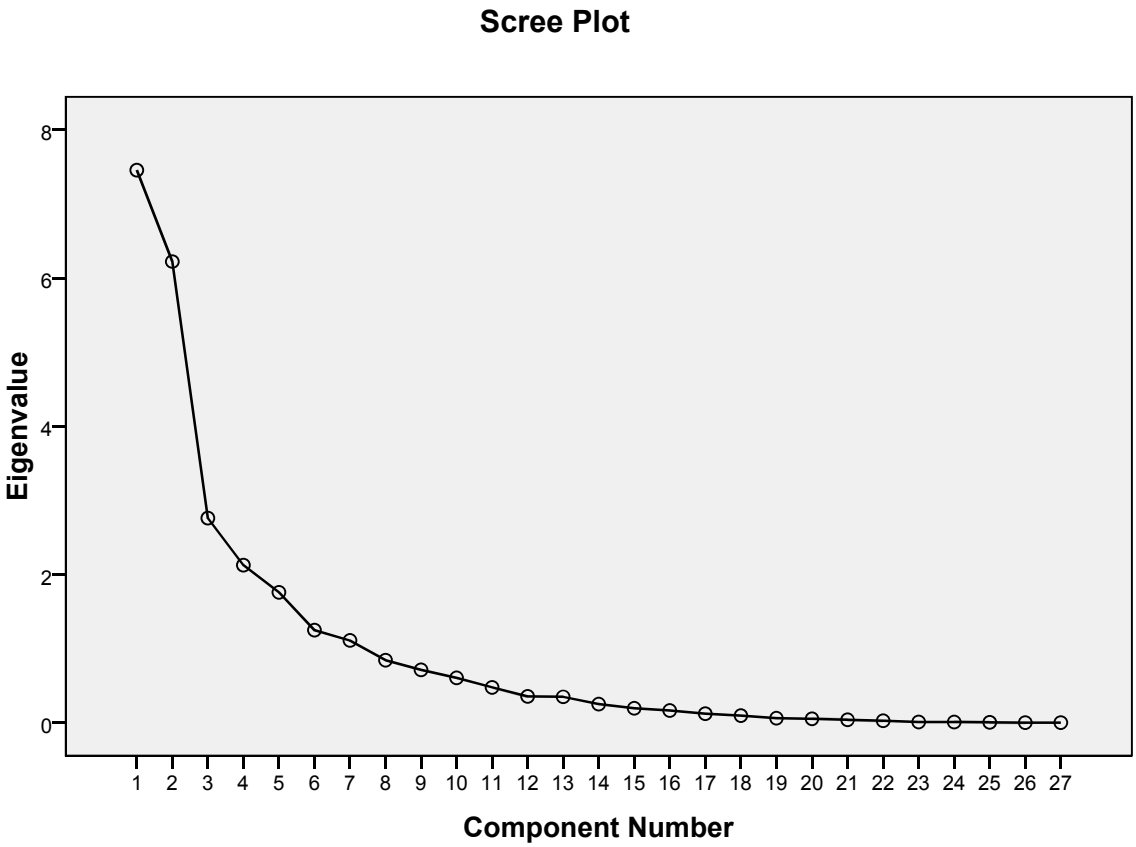
Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	7.454	27.609	27.609	7.454	27.609	27.609
2	6.221	23.040	50.649	6.221	23.040	50.649
3	2.758	10.217	60.865	2.758	10.217	60.865
4	2.124	7.866	68.732	2.124	7.866	68.732
5	1.758	6.511	75.243	1.758	6.511	75.243
6	1.247	4.617	79.860	1.247	4.617	79.860
7	1.107	4.101	83.961	1.107	4.101	83.961
8	.842	3.118	87.078			
9	.710	2.629	89.708			
10	.602	2.230	91.938			
11	.476	1.762	93.699			
12	.353	1.307	95.006			
13	.346	1.283	96.289			
14	.248	.918	97.207			
15	.191	.708	97.915			
16	.162	.599	98.514			
17	.120	.443	98.958			
18	.094	.347	99.305			
19	.058	.214	99.518			
20	.051	.188	99.707			
21	.038	.140	99.847			
22	.023	.086	99.933			
23	.009	.033	99.966			
24	.005	.020	99.986			
25	.003	.012	99.998			
26	.000	.001	99.999			
27	.000	.001	100.000			

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %
1	5.888	21.806	21.806
2	5.063	18.753	40.559
3	3.314	12.273	52.831
4	3.109	11.514	64.345
5	2.128	7.883	72.228
6	1.959	7.255	79.483
7	1.209	4.477	83.961
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			

Extraction Method: Principal Component Analysis.


Scree Plot
Eigenvalue
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Component Number

Component Matrix[a]

	Component						
	1	2	3	4	5	6	7
ECORISK	.747	-.266	.173	-.178	.185	-.197	.091
NBI	.203	.439	.343	.521	.278	-.074	-.143
ANTH40	.377	-.613	.362	.180	-.397	.274	.036
ANTH10	-.808	.279	-.128	-.169	.258	-.006	.169
GR2050	-.579	.389	.508	-.104	-.163	-.121	-.241
POP_DEN	.329	-.315	.308	.295	-.490	.537	.168
PECR	-.061	-.242	-.433	.693	.006	-.052	.095
L_UNEMP	.778	-.215	-.092	-.215	.219	-.108	.067
Real_GDP	.153	.745	-.092	-.343	-.201	.114	-.032
arable	.752	-.287	.186	-.247	-.024	-.151	-.047
others	-.781	.274	-.213	.218	-.050	.169	.006
GDPagr	.186	.891	.043	-.196	-.064	-.118	.168
GDPind	.191	.604	-.527	.068	-.415	.130	-.022
GDPser	-.218	-.733	.442	-.003	.367	-.080	-.025
LABagr	.352	.841	.136	.039	.008	-.095	.166
LABind	.650	-.059	-.524	.113	.189	.259	-.209
LABser	-.659	-.636	.188	-.109	-.137	-.073	-.021
Geo_Pop_Conc	-.805	.207	.044	.115	.248	.267	.240
Eld_Pop_Conc	-.807	.206	.047	.073	.335	.214	.191
GDP_GINI	.322	.446	.328	-.208	.134	.382	-.471
Unemploy_GINI	.080	.048	.021	-.544	.430	.476	.174
Income_GINI	.049	.582	.599	.383	.090	-.044	.008
Urban_pop	-.538	-.427	.487	-.211	-.198	.145	-.080
Urban_rate	-.295	.680	.353	-.016	-.320	-.250	.046
FearCrime	.514	.022	.276	.517	.363	.011	.052
RuleofLaw	-.635	-.593	-.237	-.100	-.149	-.229	.008
Satisfactory	.506	-.028	.241	-.113	-.136	-.010	.698

Extraction Method: Principal Component Analysis.

a. 7 components extracted.

Rotated Component Matrix[a]

	Component						
	1	2	3	4	5	6	7
ECORISK	-.787	-.132	.157	-.163	-.025	.159	.238
NBI	.018	.103	.830	.058	-.053	-.103	-.100
ANTH40	-.410	-.344	-.032	-.033	.784	-.086	.063
ANTH10	.767	-.040	-.177	.186	-.436	.140	.075
GR2050	.384	-.011	.117	.792	-.083	.052	-.237
POP_DEN	-.148	-.048	.072	-.070	.946	-.022	.126
PECR	.222	-.097	.078	-.529	.086	-.624	.019
L_UNEMP	-.744	.016	.055	-.368	-.085	.193	.180
Real_GDP	.006	.772	.020	.234	-.100	.307	-.047
arable	-.848	-.068	.034	-.062	.106	.145	.097
others	.855	.091	-.107	.085	-.072	-.157	-.146
GDPagr	.006	.766	.285	.318	-.263	.195	.194
GDPind	.084	.892	-.087	-.147	.064	-.160	-.104
GDPser	-.064	-.952	.006	.052	.014	.084	.038
LABagr	-.080	.695	.524	.208	-.157	.115	.207
LABind	-.380	.274	.070	-.760	.047	.078	-.224
LABser	.278	-.702	-.479	.283	.104	-.139	-.046
Geo_Pop_Conc	.905	-.152	.037	.104	-.104	.138	.107
Eld_Pop_Conc	.877	-.192	.052	.105	-.203	.171	.073
GDP_GINI	-.178	.290	.394	.151	.110	.580	-.445
Unemploy_GINI	.048	-.014	-.088	-.191	-.074	.820	.149
Income_GINI	.131	.166	.798	.411	.059	-.003	.049
Urban_pop	.229	-.571	-.296	.485	.300	.140	-.095
Urban_rate	.258	.411	.211	.732	-.099	-.106	.061
FearCrime	-.267	-.121	.742	-.281	.108	-.062	.116
RuleofLaw	.276	-.506	-.660	.053	-.114	-.332	-.036
Satisfactory	-.379	.124	.088	.023	.260	.123	.763

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.

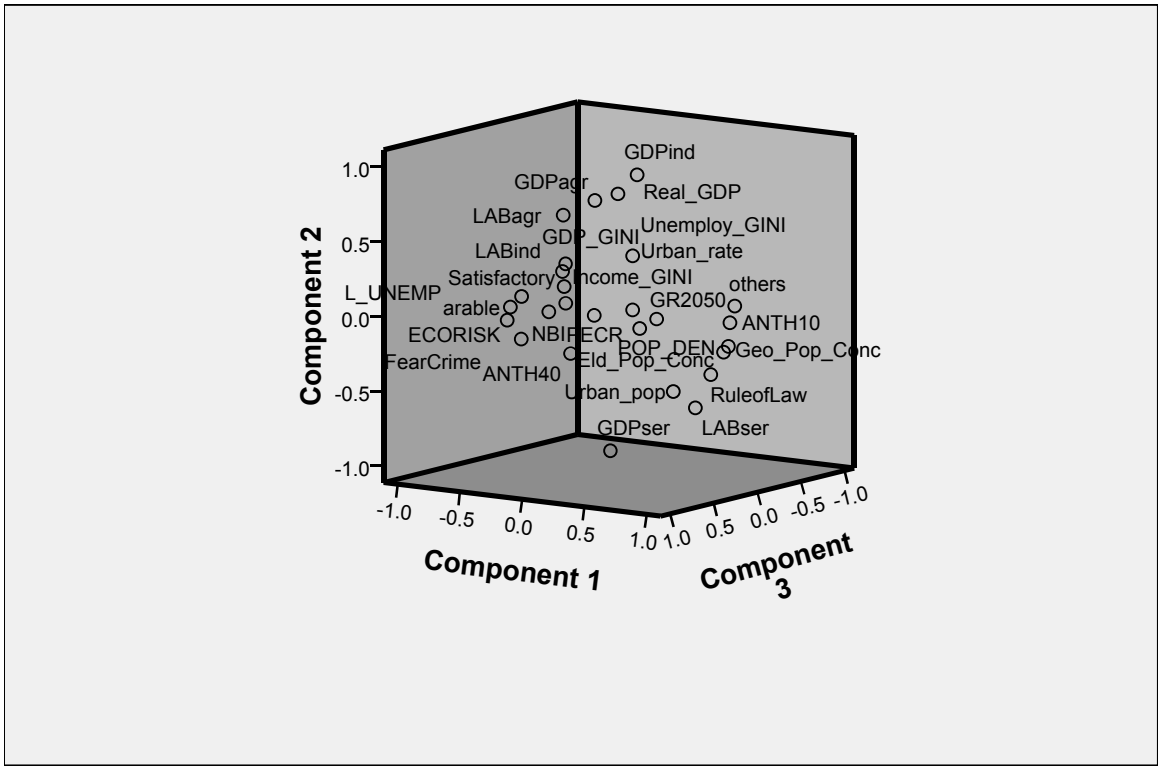
a. Rotation converged in 8 iterations.

Component Transformation Matrix

Co…	1	2	3	4	5	6	7
1	-.824	.284	.286	-.326	.175	.101	.109
2	.263	.778	.407	.271	-.257	.145	-.023
3	-.128	-.386	.479	.672	.291	.242	.101
4	.260	-.081	.583	-.289	.274	-.651	-.053
5	.107	-.383	.426	-.404	-.577	.405	.031
6	.354	.095	.007	-.340	.636	.567	-.152
7	.177	.050	-.053	-.082	.076	.007	.975

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.

Component Plot in Rotated Space



Component Score Coefficient Matrix

	Component						
	1	2	3	4	5	6	7
ECORISK	-.154	-.074	.032	.027	-.131	.027	.130
NBI	.017	-.078	.313	-.010	-.049	-.087	-.111
ANTH40	-.003	-.011	-.010	.035	.368	.001	.008
ANTH10	.127	-.021	-.027	-.031	-.142	.094	.141
GR2050	-.039	-.025	.034	.269	-.014	-.017	-.189
POP_DEN	.122	.074	.003	-.040	.538	.067	.084
PECR	.102	.001	.094	-.202	.030	-.279	.057
L_UNEMP	-.124	-.029	-.010	-.062	-.133	.065	.090
Real_GDP	-.008	.176	-.102	.067	.041	.122	-.041
arable	-.186	-.032	-.030	.084	-.055	.021	.002
others	.180	.050	-.001	-.070	.079	-.024	-.042
GDPagr	-.019	.132	-.005	.102	-.081	.020	.167
GDPind	.045	.253	-.125	-.058	.134	-.087	-.063
GDPser	-.032	-.249	.109	.025	-.092	.068	.010
LABagr	-.005	.097	.096	.061	-.047	-.016	.164
LABind	.015	.056	.018	-.272	.033	.087	-.224
LABser	-.009	-.103	-.097	.115	.023	-.039	-.010
Geo_Pop_Conc	.239	-.038	.072	-.108	.063	.142	.170
Eld_Pop_Conc	.216	-.063	.084	-.104	-.001	.152	.136
GDP_GINI	-.016	.009	.098	.014	.116	.309	-.439
Unemploy_GINI	.115	-.023	-.041	-.164	.045	.487	.118
Income_GINI	.032	-.046	.270	.108	.039	-.050	.025
Urban_pop	.009	-.084	-.065	.164	.162	.110	-.075
Urban_rate	-.040	.078	.009	.269	-.019	-.139	.072
FearCrime	.028	-.112	.297	-.115	-.003	-.038	.056
RuleofLaw	-.029	-.046	-.169	.054	-.096	-.151	.019
Satisfactory	.019	.046	-.038	.033	.112	.031	.632

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.
Component Scores.

Component Score Covariance Matrix

Co…	1	2	3	4	5	6	7
1	1.000	.000	.000	.000	.000	.000	.000
2	.000	1.000	.000	.000	.000	.000	.000
3	.000	.000	1.000	.000	.000	.000	.000
4	.000	.000	.000	1.000	.000	.000	.000
5	.000	.000	.000	.000	1.000	.000	.000
6	.000	.000	.000	.000	.000	1.000	.000
7	.000	.000	.000	.000	.000	.000	1.000

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.
Component Scores.

The Comparison of Correlation Matrix

A quick scan of scatter plots has been done to evaluate the interaction between the selected variables. Few strong linear relationships were spotted (examples can be found in Figure 6.1) while no obvious non-linear patterns emerged. As the PCA should be conducted under the assumption of linear correlations between selected variables, the scatter plot matrix further validated the feasibility of PCA on this dataset.

The matrix of correlation was examined to look at the degree of interaction between variables based on different MDTs. Since the PCA is based on the correlations between variables, the degree of the difference of correlations resulted from MDTs showed the sensitivities of the data to the MDTs. Matrix 6.1 summarised two different evaluations of two statistical parameters among the three MDTs. The upper right part of the matrix described the statistic significance of correlation. The red cells represent the interactions that were statistical significant ($p<=0.05$) in all three MDTs; the purple cells represent the correlations that were statistically significant in two of the three MDTs; and the blue cells represent the correlations that were statistically significant in only one of the three treatments.

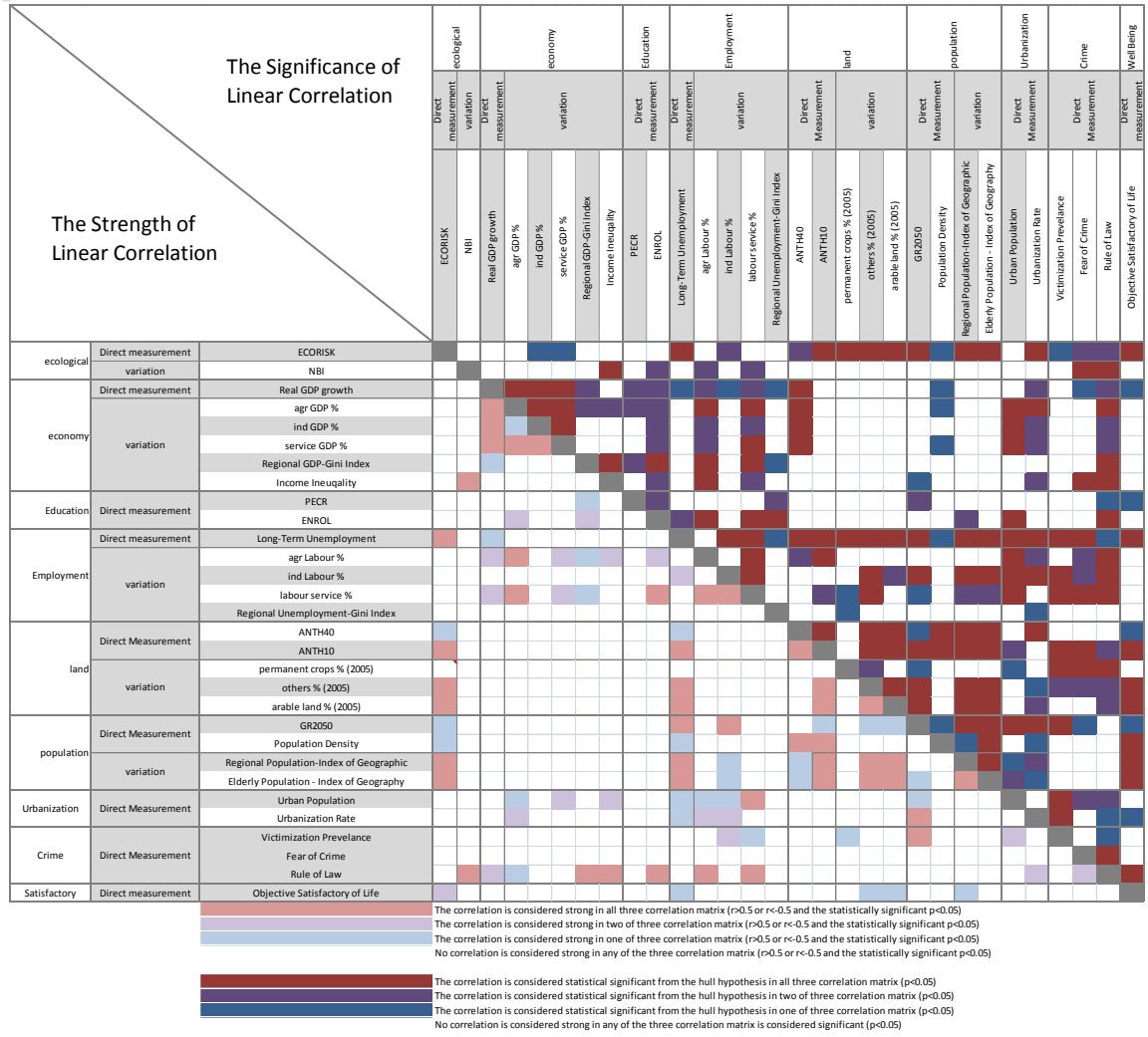
In the total of 435 interactions, 27% (118) of interactions were statistically significant in all three MDTs, while 51% (224) of interactions had no statistical significance in all three treatments (the white cells). Thus, the statistical significance or the lack of significance was agreed in more than 75% of the interactions. About 20% of the interactions were affected by different data treatments.

The lower left part of the matrix described the degree of correlations. The pink cells represent the absolute values of correlation coefficients were no less than 0.5 in all three MDTs; the light purple cells represents the strong correlations observed in two of the three MDTs; and the light blue cells represent the strong correlations observed in only one MDT.

In the total of 435 interactions, 10% (45) interactions were considered strongly correlated in all three treatments, while 78% (338) interactions had no strong correlation in all three treatments. Thus, the degrees of correlations were agreed among more than 85% of the interaction in all three matrices. However, about 10% of interactions were affected by different data treatments.

Based on the dominant agreement among the three correlation matrices, it was conclude that the effect caused by data treatment may be acceptable. Later on, when conducting the PCA, some variables were taken out based on the consideration that these variables may not be significantly relevant to all the components extracted (Section 6.4.3). This increases the availability the data points in listwise deletion because by deleting some variables, some countries may no longer be excluded from the listwise deletion analysis. It was expected that the agreement among the three matrices may increase.

Matrix B.1 Summaries of Correlations Resulted from Three Different Data Treatment



Among the three MDTs, pairwise deletion resulted in 'not positive definite' and made further PCA impossible. This means the deletion of data made the analysis of correlations contradict with each other and therefore, the further PCA is not

possible. Listwise deletion reduced one-third of data points (only 22 out of 33 in the analysis countries remained). Although there were concerns that the mean substitution may compromise the strong correlation a 'complete' dataset might have been exhibited, the low percentages (between 22% and 10%) of strong correlations across the three matrices should somewhat diminish such concern. Therefore, the mean substitution was used in the data treatment in following PCA.

Country Cluster and Factor Score

The factor scores were calculated for each country based on the selected PCA result in SPSS (Varimax rotation PCA after deleting three least extracted variables in Section 6.4.3.2) (Table 6.11). The values of the scores of a country in different components do not necessarily indicate positive or negative performance. The relationships of components to the three elements of sustainability required further examination (Section 6.5.1). However, the pattern of the factor scores is the base of cluster analysis. It is assumed that the pattern represent the characteristics of countries. Through cluster analysis, countries with similar characters may be grouped together. Similar example may be found in ESI 2005.

However, the results using three different cluster techniques: nearest neighbour (single linkage) and farthest neighbour (complete linkage) and average linkage methods altered the relations considerably (Figure B.1 to B.3). Although Taiwan and South Korea were always clustered together, this two-country cluster has quite different relationship with other countries depending on cluster methods. Figure B.1 indicated the UK and Belgium shared characters with Taiwan and South Korea. Figure B.2 indicated Iceland is similar to Taiwan and South Korea. Finally, Figure B.3 showed a group of 6 countries share traits with Taiwan and South Korea.

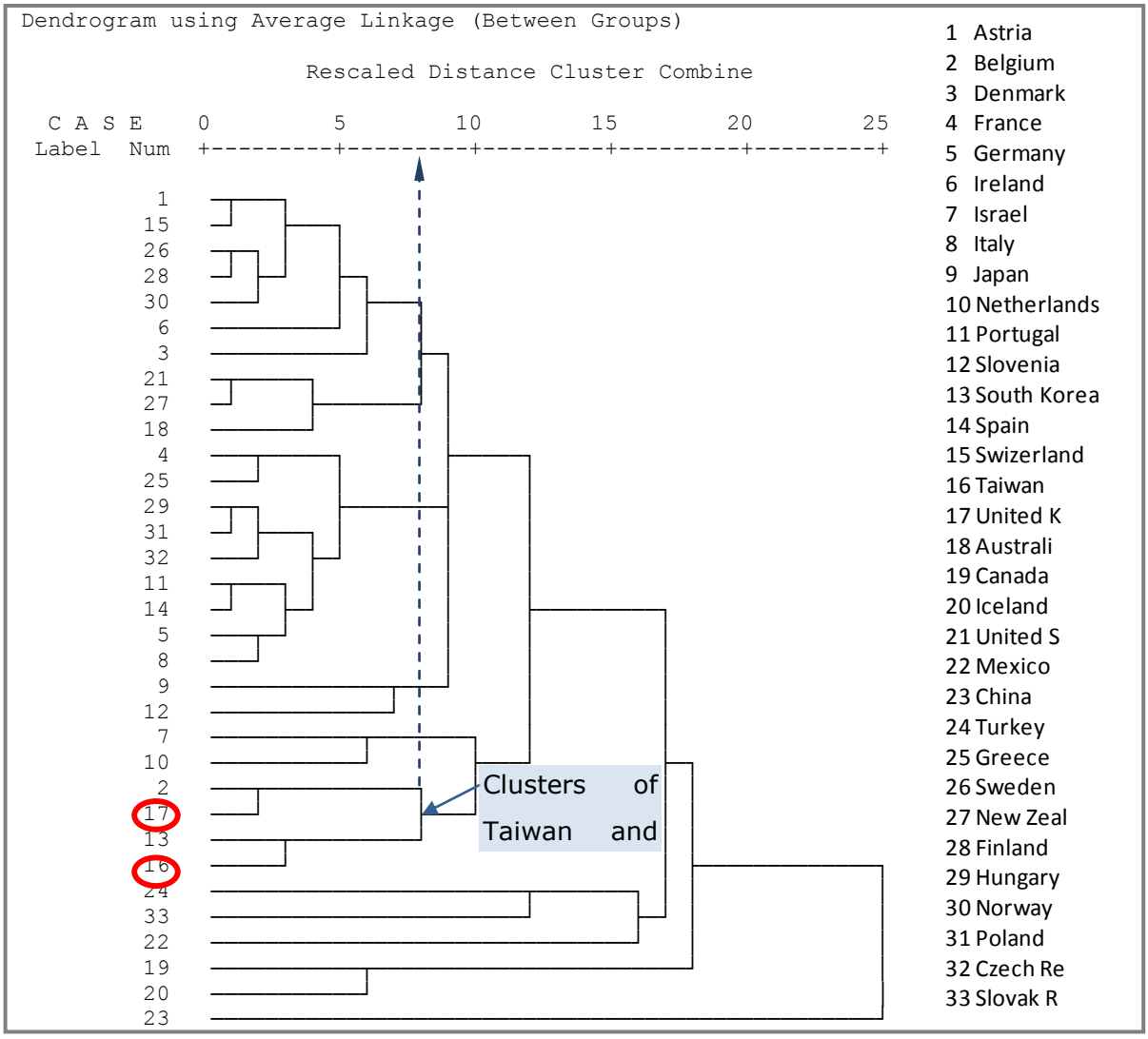


Figure B.1 The Dendrogram based on Average Linkage

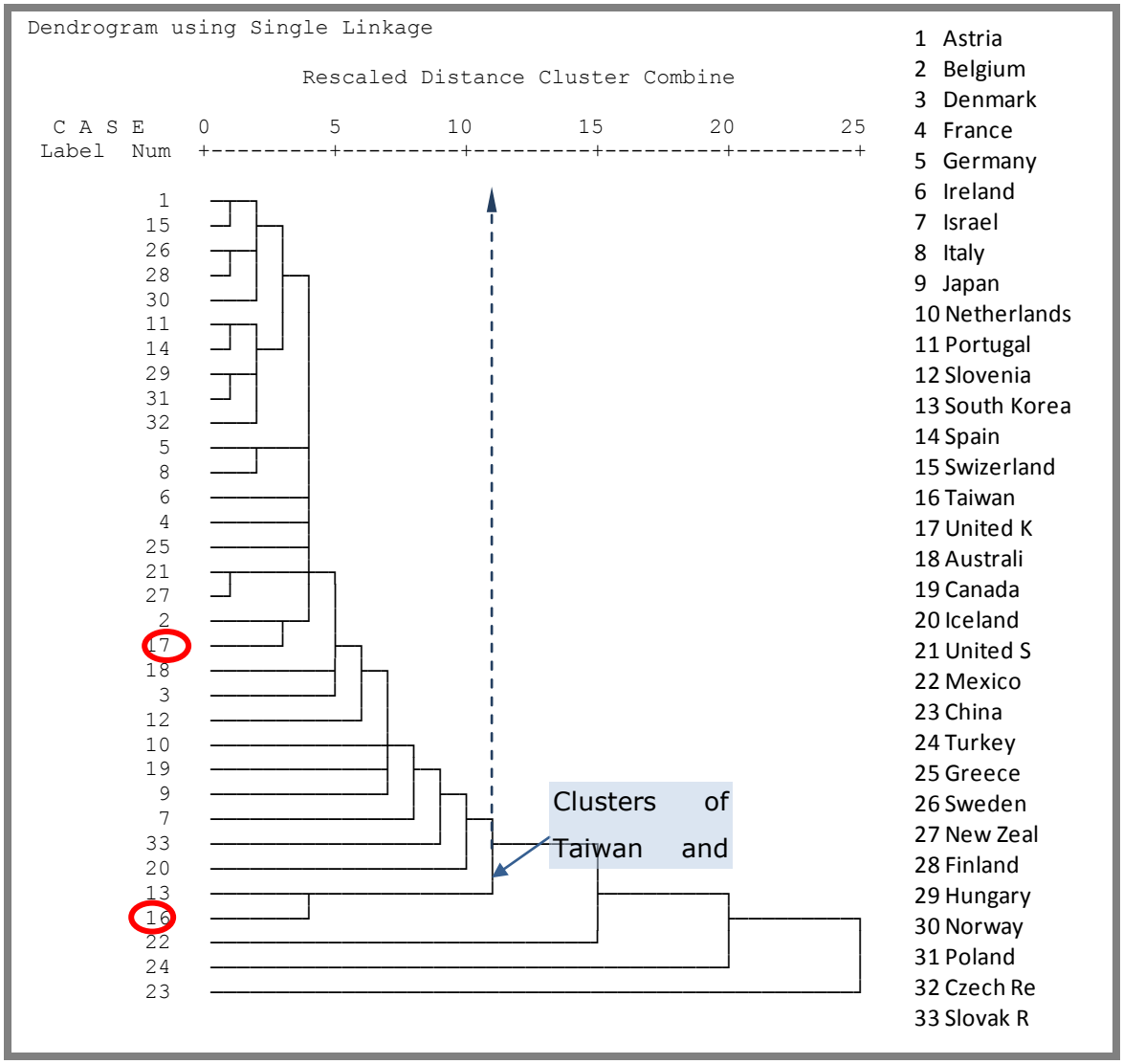


Figure B.2 The Dendrogram based on Single Linkage

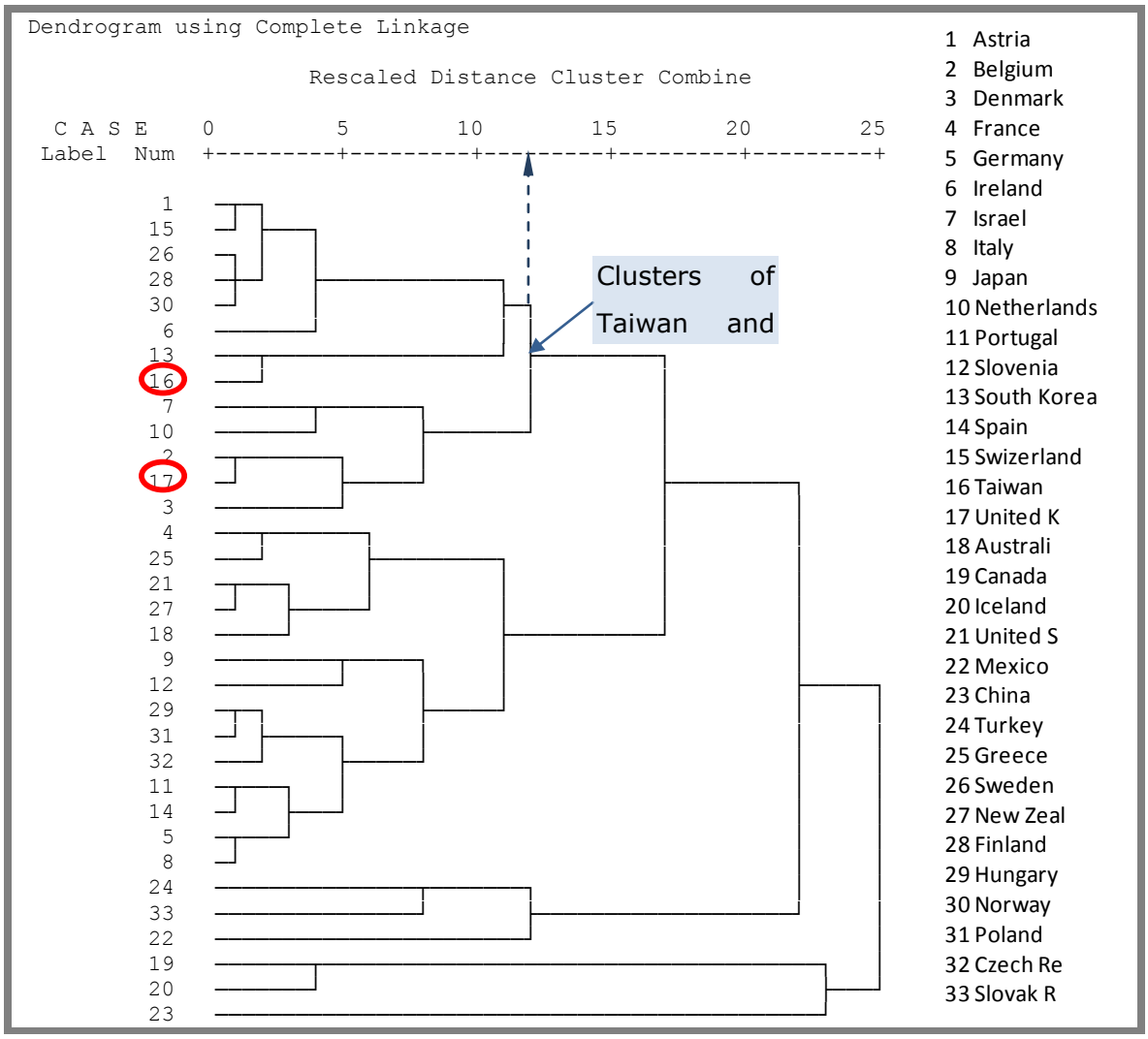


Figure B.3 The Dendrogram based on Complete Linkage

Insert logistic regression result

Logistic Regression – Backward Stepwise (Including Agriculture Contaminated Sites)

Block 1: Method = Backward Stepwise (Likelihood Ratio)

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	295.868	28	.000
	Block	295.868	28	.000
	Model	295.868	28	.000
Step 2[a]	Step	-.007	1	.934
	Block	295.861	27	.000
	Model	295.861	26	.000
Step 3[a]	Step	-1.155	2	.561
	Block	294.706	25	.000
	Model	294.706	25	.000
Step 4[a]	Step	-1.500	1	.221
	Block	293.206	24	.000
	Model	293.206	24	.000

a. A negative Chi-squares value indicates that the Chi-squares value has decreased from the previous step.

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	622.532[a]	.321	.459
2	622.539[a]	.321	.459
3	623.694[a]	.320	.458
4	625.194[a]	.319	.456

a. Estimation terminated at iteration number 20 because maximum iterations has been reached. Final solution cannot be found.

Classification Table[a]

Observed			Predicted		
			vacancy		
			0	1	Percentage Correct
Step 1	vacancy	0	95	126	43.0
		1	29	513	94.6
	Overall Percentage				79.7
Step 2	vacancy	0	95	126	43.0
		1	28	514	94.8
	Overall Percentage				79.8
Step 3	vacancy	0	94	127	42.5
		1	28	514	94.8
	Overall Percentage				79.7
Step 4	vacancy	0	94	127	42.5
		1	28	514	94.8
	Overall Percentage				79.7

a. The cut value is .500

Correlation Matrix

		Constant	type_a(1)	type_site(1)	type_site(2)
Step 1	Constant	1.000	.000	-1.000	-1.000
	type_a(1)	.000	1.000	.000	.000
	type_site(1)	-1.000	.000	1.000	1.000
	type_site(2)	-1.000	.000	1.000	1.000
	type_site(3)	-1.000	.000	1.000	1.000
	type_site(4)	-1.000	.000	1.000	1.000
	type_site(5)	-1.000	.000	1.000	1.000
	region(1)	.000	.335	.000	.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.591	.000	.000
	authority_n(1)	.000	-.016	.000	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	-.270	.000	.270	.270
	authority_n(8)	.000	-.647	.000	.000
	authority_n(9)	.000	.420	.000	.000
	authority_n(10)	.000	-.734	.000	.000
	authority_n(11)	.000	-.090	.000	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.285	.000	.000
	authority_n(14)	.000	-.515	.000	.000

Correlation Matrix

		type_site(3)	type_site(4)	type_site(5)	region(1)
Step 1	Constant	-1.000	-1.000	-1.000	.000
	type_a(1)	.000	.000	.000	.335
	type_site(1)	1.000	1.000	1.000	.000
	type_site(2)	1.000	1.000	1.000	.000
	type_site(3)	1.000	1.000	1.000	.000
	type_site(4)	1.000	1.000	1.000	.000
	type_site(5)	1.000	1.000	1.000	.000
	region(1)	.000	.000	.000	1.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.000	.000	.550
	authority_n(1)	.000	.000	.000	-.829
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.270	.270	.270	.000
	authority_n(8)	.000	.000	.000	-.013
	authority_n(9)	.000	.000	.000	.317
	authority_n(10)	.000	.000	.000	-.247
	authority_n(11)	.000	.000	.000	-.746
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.181
	authority_n(14)	.000	.000	.000	-.691

Correlation Matrix

		region(2)	region(3)	authority_n(1)	authority_n(2)
Step 1	Constant	.000	.000	.000	.000
	type_a(1)	.000	.591	-.016	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.000	.550	-.829	.000
	region(2)	1.000	.000	.000	.000
	region(3)	.000	1.000	-.035	.000
	authority_n(1)	.000	-.035	1.000	.000
	authority_n(2)	.000	.000	.000	1.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	-.681	.000	.000	.000
	authority_n(8)	.000	-.028	.029	.000
	authority_n(9)	.000	.553	.008	.000
	authority_n(10)	.000	-.449	.012	.000
	authority_n(11)	.000	-.194	.772	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.316	-.001	.000
	authority_n(14)	.000	-.384	.585	.000

Correlation Matrix

		authority_n(3)	authority_n(4)	authority_n(5)	authority_n(6)
Step 1	Constant	.000	.000	.000	.000
	type_a(1)	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.000	.000	.000	.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.000	.000	.000
	authority_n(1)	.000	.000	.000	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	1.000	.000	.000	.000
	authority_n(4)	.000	1.000	.000	.000
	authority_n(5)	.000	.000	1.000	.000
	authority_n(6)	.000	.000	.000	1.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.000	.000	.000	.000
	authority_n(9)	.000	.000	.000	.000
	authority_n(10)	.000	.000	.000	.000
	authority_n(11)	.000	.000	.000	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.000
	authority_n(14)	.000	.000	.000	.000

Correlation Matrix

		authority_n(7)	authority_n(8)	authority_n(9)	authority_n (10)
Step 1	Constant	-.270	.000	.000	.000
	type_a(1)	.000	-.647	.420	-.734
	type_site(1)	.270	.000	.000	.000
	type_site(2)	.270	.000	.000	.000
	type_site(3)	.270	.000	.000	.000
	type_site(4)	.270	.000	.000	.000
	type_site(5)	.270	.000	.000	.000
	region(1)	.000	-.013	.317	-.247
	region(2)	-.681	.000	.000	.000
	region(3)	.000	-.028	.553	-.449
	authority_n(1)	.000	.029	.008	.012
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	1.000	.000	.000	.000
	authority_n(8)	.000	1.000	.104	.474
	authority_n(9)	.000	.104	1.000	-.309
	authority_n(10)	.000	.474	-.309	1.000
	authority_n(11)	.000	.094	-.008	.066
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	-.020	.325	-.210
	authority_n(14)	.000	.398	-.169	.378

Correlation Matrix

		authority_n (11)	authority_n (12)	authority_n (13)	authority_n (14)
Step 1	Constant	.000	.000	.000	.000
	type_a(1)	-.090	.000	.285	-.515
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	-.746	.000	.181	-.691
	region(2)	.000	.000	.000	.000
	region(3)	-.194	.000	.316	-.384
	authority_n(1)	.772	.000	-.001	.585
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.094	.000	-.020	.398
	authority_n(9)	-.008	.000	.325	-.169
	authority_n(10)	.066	.000	-.210	.378
	authority_n(11)	1.000	.000	.010	.553
	authority_n(12)	.000	1.000	.000	.000
	authority_n(13)	.010	.000	1.000	-.136
	authority_n(14)	.553	.000	-.136	1.000

Correlation Matrix

		authority_n (15)	authority_n (16)	authority_n (17)	authority_n (18)
Step 1	Constant	.000	.	.	.000
	type_a(1)	-.068	.	.	-.177
	type_site(1)	.000	.	.	.000
	type_site(2)	.000	.	.	.000
	type_site(3)	.000	.	.	.000
	type_site(4)	.000	.	.	.000
	type_site(5)	.000	.	.	.000
	region(1)	-.724	.	.	-.220
	region(2)	.000	.	.	.000
	region(3)	-.122	.	.	-.422
	authority_n(1)	.780	.	.	.042
	authority_n(2)	.000	.	.	.000
	authority_n(3)	.000	.	.	.000
	authority_n(4)	.000	.	.	.000
	authority_n(5)	.000	.	.	.000
	authority_n(6)	.000	.	.	.000
	authority_n(7)	.000	.	.	.000
	authority_n(8)	.037	.	.	.146
	authority_n(9)	-.034	.	.	-.027
	authority_n(10)	.050	.	.	.144
	authority_n(11)	.679	.	.	.194
	authority_n(12)	.000	.	.	.000
	authority_n(13)	-.003	.	.	-.011
	authority_n(14)	.513	.	.	.211

Correlation Matrix

		authority_n (19)	authority_n (20)	area_site
Step 1	Constant	.	.	.000
	type_a(1)	.	.	-.043
	type_site(1)	.	.	.000
	type_site(2)	.	.	.000
	type_site(3)	.	.	.000
	type_site(4)	.	.	.000
	type_site(5)	.	.	.000
	region(1)	.	.	.011
	region(2)	.	.	.000
	region(3)	.	.	.019
	authority_n(1)	.	.	.004
	authority_n(2)	.	.	.000
	authority_n(3)	.	.	.000
	authority_n(4)	.	.	.000
	authority_n(5)	.	.	.000
	authority_n(6)	.	.	.000
	authority_n(7)	.	.	.000
	authority_n(8)	.	.	.059
	authority_n(9)	.	.	-.041
	authority_n(10)	.	.	.035
	authority_n(11)	.	.	-.003
	authority_n(12)	.	.	.000
	authority_n(13)	.	.	-.102
	authority_n(14)	.	.	.044

Correlation Matrix

		status(1)	status(2)
Step 1	Constant	.000	.000
	type_a(1)	-.166	-.178
	type_site(1)	.000	.000
	type_site(2)	.000	.000
	type_site(3)	.000	.000
	type_site(4)	.000	.000
	type_site(5)	.000	.000
	region(1)	-.130	-.084
	region(2)	.000	.000
	region(3)	-.219	-.142
	authority_n(1)	-.009	-.003
	authority_n(2)	.000	.000
	authority_n(3)	.000	.000
	authority_n(4)	.000	.000
	authority_n(5)	.000	.000
	authority_n(6)	.000	.000
	authority_n(7)	.000	.000
	authority_n(8)	-.093	.007
	authority_n(9)	-.229	-.196
	authority_n(10)	.122	.131
	authority_n(11)	.159	.123
	authority_n(12)	.000	.000
	authority_n(13)	.021	-.003
	authority_n(14)	.034	.056

Correlation Matrix

		Constant	type_a(1)	type_site(1)	type_site(2)
Step 1	authority_n(15)	.000	-.068	.000	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	-.177	.000	.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	-.043	.000	.000
	status(1)	.000	-.166	.000	.000
	status(2)	.000	-.178	.000	.000
Step 2	Constant	1.000		-1.000	-1.000
	type_site(1)	-1.000		1.000	1.000
	type_site(2)	-1.000		1.000	1.000
	type_site(3)	-1.000		1.000	1.000
	type_site(4)	-1.000		1.000	1.000
	type_site(5)	-1.000		1.000	1.000
	region(1)	.000		.000	.000
	region(2)	.000		.000	.000
	region(3)	.000		.000	.000
	authority_n(1)	.000		.000	.000
	authority_n(2)	.000		.000	.000
	authority_n(3)	.000		.000	.000
	authority_n(4)	.000		.000	.000
	authority_n(5)	.000		.000	.000
	authority_n(6)	.000		.000	.000
	authority_n(7)	-.270		.270	.270
	authority_n(8)	.000		.000	.000
	authority_n(9)	.000		.000	.000
	authority_n(10)	.000		.000	.000
	authority_n(11)	.000		.000	.000
	authority_n(12)	.000		.000	.000
	authority_n(13)	.000		.000	.000
	authority_n(14)	.000		.000	.000
	authority_n(15)	.000		.000	.000
	authority_n(16)	.		.	.
	authority_n(17)	.		.	.
	authority_n(18)	.000		.000	.000
	authority_n(19)	.		.	.
	authority_n(20)	.		.	.
	area_site	.000		.000	.000
	status(1)	.000		.000	.000
	status(2)	.000		.000	.000

Correlation Matrix

		type_site(3)	type_site(4)	type_site(5)	region(1)
Step 1	authority_n(15)	.000	.000	.000	-.724
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	-.220
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.000	.000	.011
	status(1)	.000	.000	.000	-.130
	status(2)	.000	.000	.000	-.084
Step 2	Constant	-1.000	-1.000	-1.000	.000
	type_site(1)	1.000	1.000	1.000	.000
	type_site(2)	1.000	1.000	1.000	.000
	type_site(3)	1.000	1.000	1.000	.000
	type_site(4)	1.000	1.000	1.000	.000
	type_site(5)	1.000	1.000	1.000	.000
	region(1)	.000	.000	.000	1.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.000	.000	.465
	authority_n(1)	.000	.000	.000	-.873
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.270	.270	.270	.000
	authority_n(8)	.000	.000	.000	.287
	authority_n(9)	.000	.000	.000	.209
	authority_n(10)	.000	.000	.000	-.001
	authority_n(11)	.000	.000	.000	-.763
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.096
	authority_n(14)	.000	.000	.000	-.641
	authority_n(15)	.000	.000	.000	-.746
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	-.175
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.000	.000	.027
	status(1)	.000	.000	.000	-.081
	status(2)	.000	.000	.000	-.027

Correlation Matrix

		region(2)	region(3)	authority_n(1)	authority_n(2)
Step 1	authority_n(15)	.000	-.122	.780	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	-.422	.042	.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.019	.004	.000
	status(1)	.000	-.219	-.009	.000
	status(2)	.000	-.142	-.003	.000
Step 2	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.000	.465	-.873	.000
	region(2)	1.000	.000	.000	.000
	region(3)	.000	1.000	-.032	.000
	authority_n(1)	.000	-.032	1.000	.000
	authority_n(2)	.000	.000	.000	1.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	-.681	.000	.000	.000
	authority_n(8)	.000	.578	.024	.000
	authority_n(9)	.000	.419	.015	.000
	authority_n(10)	.000	-.029	.000	.000
	authority_n(11)	.000	-.177	.773	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.192	.004	.000
	authority_n(14)	.000	-.116	.673	.000
	authority_n(15)	.000	-.101	.781	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	-.402	.040	.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.056	.003	.000
	status(1)	.000	-.154	-.011	.000
	status(2)	.000	-.048	-.006	.000

Correlation Matrix

		authority_n(3)	authority_n(4)	authority_n(5)	authority_n(6)
Step 1	authority_n(15)	.000	.000	.000	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.000	.000	.000
	status(1)	.000	.000	.000	.000
	status(2)	.000	.000	.000	.000
Step 2	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.000	.000	.000	.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.000	.000	.000
	authority_n(1)	.000	.000	.000	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	1.000	.000	.000	.000
	authority_n(4)	.000	1.000	.000	.000
	authority_n(5)	.000	.000	1.000	.000
	authority_n(6)	.000	.000	.000	1.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.000	.000	.000	.000
	authority_n(9)	.000	.000	.000	.000
	authority_n(10)	.000	.000	.000	.000
	authority_n(11)	.000	.000	.000	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.000
	authority_n(14)	.000	.000	.000	.000
	authority_n(15)	.000	.000	.000	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.000	.000	.000
	status(1)	.000	.000	.000	.000
	status(2)	.000	.000	.000	.000

Correlation Matrix

		authority_n(7)	authority_n(8)	authority_n(9)	authority_n(10)
Step 1	authority_n(15)	.000	.037	-.034	.050
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.146	-.027	.144
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.059	-.041	.035
	status(1)	.000	-.093	-.229	.122
	status(2)	.000	.007	-.196	.131
Step 2	Constant	-.270	.000	.000	.000
	type_site(1)	.270	.000	.000	.000
	type_site(2)	.270	.000	.000	.000
	type_site(3)	.270	.000	.000	.000
	type_site(4)	.270	.000	.000	.000
	type_site(5)	.270	.000	.000	.000
	region(1)	.000	.287	.209	-.001
	region(2)	-.681	.000	.000	.000
	region(3)	.000	.578	.419	-.029
	authority_n(1)	.000	.024	.015	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	1.000	.000	.000	.000
	authority_n(8)	.000	1.000	.545	-.001
	authority_n(9)	.000	.545	1.000	-.001
	authority_n(10)	.000	-.001	-.001	1.000
	authority_n(11)	.000	.046	.032	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.227	.236	-.001
	authority_n(14)	.000	.097	.061	.000
	authority_n(15)	.000	-.010	-.006	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.039	.051	.022
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.041	-.026	.004
	status(1)	.000	-.268	-.180	.001
	status(2)	.000	-.145	-.137	.001

Correlation Matrix

		authority_n (11)	authority_n (12)	authority_n (13)	authority_n (14)
Step 1	authority_n(15)	.679	.000	-.003	.513
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.194	.000	-.011	.211
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	-.003	.000	-.102	.044
	status(1)	.159	.000	.021	.034
	status(2)	.123	.000	-.003	.056
Step 2	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	-.763	.000	.096	-.641
	region(2)	.000	.000	.000	.000
	region(3)	-.177	.000	.192	-.116
	authority_n(1)	.773	.000	.004	.673
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.046	.000	.227	.097
	authority_n(9)	.032	.000	.236	.061
	authority_n(10)	.000	.000	-.001	.000
	authority_n(11)	1.000	.000	.036	.594
	authority_n(12)	.000	1.000	.000	.000
	authority_n(13)	.036	.000	1.000	.013
	authority_n(14)	.594	.000	.013	1.000
	authority_n(15)	.677	.000	.017	.559
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.183	.000	.041	.143
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	-.007	.000	-.094	.025
	status(1)	.147	.000	.071	-.061
	status(2)	.108	.000	.050	-.042

Correlation Matrix

		authority_n (15)	authority_n (16)	authority_n (17)	authority_n (18)
Step 1	authority_n(15)	1.000	.	.	.102
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.102	.	.	1.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.023	.	.	-.044
	status(1)	.157	.	.	.079
	status(2)	.143	.	.	.051
Step 2	Constant	.000	.	.	.000
	type_site(1)	.000	.	.	.000
	type_site(2)	.000	.	.	.000
	type_site(3)	.000	.	.	.000
	type_site(4)	.000	.	.	.000
	type_site(5)	.000	.	.	.000
	region(1)	-.746	.	.	-.175
	region(2)	.000	.	.	.000
	region(3)	-.101	.	.	-.402
	authority_n(1)	.781	.	.	.040
	authority_n(2)	.000	.	.	.000
	authority_n(3)	.000	.	.	.000
	authority_n(4)	.000	.	.	.000
	authority_n(5)	.000	.	.	.000
	authority_n(6)	.000	.	.	.000
	authority_n(7)	.000	.	.	.000
	authority_n(8)	-.010	.	.	.039
	authority_n(9)	-.006	.	.	.051
	authority_n(10)	.000	.	.	.022
	authority_n(11)	.677	.	.	.183
	authority_n(12)	.000	.	.	.000
	authority_n(13)	.017	.	.	.041
	authority_n(14)	.559	.	.	.143
	authority_n(15)	1.000	.	.	.091
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.091	.	.	1.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.019	.	.	-.053
	status(1)	.147	.	.	.052
	status(2)	.132	.	.	.020

Correlation Matrix

		authority_n (19)	authority_n (20)	area_site
Step 1	authority_n(15)	.	.	.023
	authority_n(16)	.	.	.
	authority_n(17)	.	.	.
	authority_n(18)	.	.	-.044
	authority_n(19)	.	.	.
	authority_n(20)	.	.	.
	area_site	.	.	1.000
	status(1)	.	.	.047
	status(2)	.	.	-.007
Step 2	Constant	.	.	.000
	type_site(1)	.	.	.000
	type_site(2)	.	.	.000
	type_site(3)	.	.	.000
	type_site(4)	.	.	.000
	type_site(5)	.	.	.000
	region(1)	.	.	.027
	region(2)	.	.	.000
	region(3)	.	.	.056
	authority_n(1)	.	.	.003
	authority_n(2)	.	.	.000
	authority_n(3)	.	.	.000
	authority_n(4)	.	.	.000
	authority_n(5)	.	.	.000
	authority_n(6)	.	.	.000
	authority_n(7)	.	.	.000
	authority_n(8)	.	.	.041
	authority_n(9)	.	.	-.026
	authority_n(10)	.	.	.004
	authority_n(11)	.	.	-.007
	authority_n(12)	.	.	.000
	authority_n(13)	.	.	-.094
	authority_n(14)	.	.	.025
	authority_n(15)	.	.	.019
	authority_n(16)	.	.	.
	authority_n(17)	.	.	.
	authority_n(18)	.	.	-.053
	authority_n(19)	.	.	.
	authority_n(20)	.	.	.
	area_site	.	.	1.000
	status(1)	.	.	.040
	status(2)	.	.	-.015

Correlation Matrix

		status(1)	status(2)
Step 1	authority_n(15)	.157	.143
	authority_n(16)	.	.
	authority_n(17)	.	.
	authority_n(18)	.079	.051
	authority_n(19)	.	.
	authority_n(20)	.	.
	area_site	.047	-.007
	status(1)	1.000	.852
	status(2)	.852	1.000
Step 2	Constant	.000	.000
	type_site(1)	.000	.000
	type_site(2)	.000	.000
	type_site(3)	.000	.000
	type_site(4)	.000	.000
	type_site(5)	.000	.000
	region(1)	-.081	-.027
	region(2)	.000	.000
	region(3)	-.154	-.048
	authority_n(1)	-.011	-.006
	authority_n(2)	.000	.000
	authority_n(3)	.000	.000
	authority_n(4)	.000	.000
	authority_n(5)	.000	.000
	authority_n(6)	.000	.000
	authority_n(7)	.000	.000
	authority_n(8)	-.268	-.145
	authority_n(9)	-.180	-.137
	authority_n(10)	.001	.001
	authority_n(11)	.147	.108
	authority_n(12)	.000	.000
	authority_n(13)	.071	.050
	authority_n(14)	-.061	-.042
	authority_n(15)	.147	.132
	authority_n(16)	.	.
	authority_n(17)	.	.
	authority_n(18)	.052	.020
	authority_n(19)	.	.
	authority_n(20)	.	.
	area_site	.040	-.015
	status(1)	1.000	.847
	status(2)	.847	1.000

Correlation Matrix

		Constant	type_a(1)	type_site(1)	type_site(2)
Step 3	Constant	1.000		-1.000	-1.000
	type_site(1)	-1.000		1.000	1.000
	type_site(2)	-1.000		1.000	1.000
	type_site(3)	-1.000		1.000	1.000
	type_site(4)	-1.000		1.000	1.000
	type_site(5)	-1.000		1.000	1.000
	region(1)	.000		.000	.000
	region(2)	.000		.000	.000
	region(3)	.000		.000	.000
	authority_n(1)	.000		.000	.000
	authority_n(2)	.000		.000	.000
	authority_n(3)	.000		.000	.000
	authority_n(4)	.000		.000	.000
	authority_n(5)	.000		.000	.000
	authority_n(6)	.000		.000	.000
	authority_n(7)	-.271		.271	.271
	authority_n(8)	.000		.000	.000
	authority_n(9)	.000		.000	.000
	authority_n(10)	.000		.000	.000
	authority_n(11)	.000		.000	.000
	authority_n(12)	.000		.000	.000
	authority_n(13)	.000		.000	.000
	authority_n(14)	.000		.000	.000
	authority_n(15)	.000		.000	.000
	authority_n(16)	.		.	.
	authority_n(17)	.		.	.
	authority_n(18)	.000		.000	.000
	authority_n(19)	.		.	.
	authority_n(20)	.		.	.
	area_site	.000		.000	.000

Correlation Matrix

		type_site(3)	type_site(4)	type_site(5)	region(1)
Step 3	Constant	-1.000	-1.000	-1.000	.000
	type_site(1)	1.000	1.000	1.000	.000
	type_site(2)	1.000	1.000	1.000	.000
	type_site(3)	1.000	1.000	1.000	.000
	type_site(4)	1.000	1.000	1.000	.000
	type_site(5)	1.000	1.000	1.000	.000
	region(1)	.000	.000	.000	1.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.000	.000	.454
	authority_n(1)	.000	.000	.000	-.880
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.271	.271	.271	.000
	authority_n(8)	.000	.000	.000	.267
	authority_n(9)	.000	.000	.000	.194
	authority_n(10)	.000	.000	.000	-.001
	authority_n(11)	.000	.000	.000	-.765
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.102
	authority_n(14)	.000	.000	.000	-.655
	authority_n(15)	.000	.000	.000	-.751
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	-.172
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.000	.000	.039

Correlation Matrix

		region(2)	region(3)	authority_n(1)	authority_n(2)
Step 3	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.000	.454	-.880	.000
	region(2)	1.000	.000	.000	.000
	region(3)	.000	1.000	-.035	.000
	authority_n(1)	.000	-.035	1.000	.000
	authority_n(2)	.000	.000	.000	1.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	-.681	.000	.000	.000
	authority_n(8)	.000	.551	.020	.000
	authority_n(9)	.000	.397	.013	.000
	authority_n(10)	.000	-.029	.000	.000
	authority_n(11)	.000	-.160	.785	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.208	.004	.000
	authority_n(14)	.000	-.134	.674	.000
	authority_n(15)	.000	-.100	.789	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	-.406	.039	.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.080	.004	.000

Correlation Matrix

		authority_n(3)	authority_n(4)	authority_n(5)	authority_n(6)
Step 3	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.000	.000	.000	.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.000	.000	.000
	authority_n(1)	.000	.000	.000	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	1.000	.000	.000	.000
	authority_n(4)	.000	1.000	.000	.000
	authority_n(5)	.000	.000	1.000	.000
	authority_n(6)	.000	.000	.000	1.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.000	.000	.000	.000
	authority_n(9)	.000	.000	.000	.000
	authority_n(10)	.000	.000	.000	.000
	authority_n(11)	.000	.000	.000	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.000
	authority_n(14)	.000	.000	.000	.000
	authority_n(15)	.000	.000	.000	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.000	.000	.000

Correlation Matrix

		authority_n(7)	authority_n(8)	authority_n(9)	authority_n(10)
Step 3	Constant	-.271	.000	.000	.000
	type_site(1)	.271	.000	.000	.000
	type_site(2)	.271	.000	.000	.000
	type_site(3)	.271	.000	.000	.000
	type_site(4)	.271	.000	.000	.000
	type_site(5)	.271	.000	.000	.000
	region(1)	.000	.267	.194	-.001
	region(2)	-.681	.000	.000	.000
	region(3)	.000	.551	.397	-.029
	authority_n(1)	.000	.020	.013	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	1.000	.000	.000	.000
	authority_n(8)	.000	1.000	.521	-.001
	authority_n(9)	.000	.521	1.000	-.001
	authority_n(10)	.000	-.001	-.001	1.000
	authority_n(11)	.000	.089	.057	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.259	.253	-.001
	authority_n(14)	.000	.078	.047	.000
	authority_n(15)	.000	.036	.025	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.052	.057	.021
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.000	.077	-.019	.005

Correlation Matrix

		authority_n (11)	authority_n (12)	authority_n (13)	authority_n (14)
Step 3	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	-.765	.000	.102	-.655
	region(2)	.000	.000	.000	.000
	region(3)	-.160	.000	.208	-.134
	authority_n(1)	.785	.000	.004	.674
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.089	.000	.259	.078
	authority_n(9)	.057	.000	.253	.047
	authority_n(10)	.000	.000	-.001	.000
	authority_n(11)	1.000	.000	.025	.613
	authority_n(12)	.000	1.000	.000	.000
	authority_n(13)	.025	.000	1.000	.017
	authority_n(14)	.613	.000	.017	1.000
	authority_n(15)	.677	.000	.008	.581
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.174	.000	.037	.146
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	-.013	.000	-.118	.030

Correlation Matrix

		authority_n (15)	authority_n (16)	authority_n (17)	authority_n (18)
Step 3	Constant	.000	.	.	.000
	type_site(1)	.000	.	.	.000
	type_site(2)	.000	.	.	.000
	type_site(3)	.000	.	.	.000
	type_site(4)	.000	.	.	.000
	type_site(5)	.000	.	.	.000
	region(1)	-.751	.	.	-.172
	region(2)	.000	.	.	.000
	region(3)	-.100	.	.	-.406
	authority_n(1)	.789	.	.	.039
	authority_n(2)	.000	.	.	.000
	authority_n(3)	.000	.	.	.000
	authority_n(4)	.000	.	.	.000
	authority_n(5)	.000	.	.	.000
	authority_n(6)	.000	.	.	.000
	authority_n(7)	.000	.	.	.000
	authority_n(8)	.036	.	.	.052
	authority_n(9)	.025	.	.	.057
	authority_n(10)	.000	.	.	.021
	authority_n(11)	.677	.	.	.174
	authority_n(12)	.000	.	.	.000
	authority_n(13)	.008	.	.	.037
	authority_n(14)	.581	.	.	.146
	authority_n(15)	1.000	.	.	.101
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.101	.	.	1.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.
	area_site	.020	.	.	-.063

Correlation Matrix

		authority_n (19)	authority_n (20)	area_site
Step 3	Constant	.	.	.000
	type_site(1)	.	.	.000
	type_site(2)	.	.	.000
	type_site(3)	.	.	.000
	type_site(4)	.	.	.000
	type_site(5)	.	.	.000
	region(1)	.	.	.039
	region(2)	.	.	.000
	region(3)	.	.	.080
	authority_n(1)	.	.	.004
	authority_n(2)	.	.	.000
	authority_n(3)	.	.	.000
	authority_n(4)	.	.	.000
	authority_n(5)	.	.	.000
	authority_n(6)	.	.	.000
	authority_n(7)	.	.	.000
	authority_n(8)	.	.	.077
	authority_n(9)	.	.	-.019
	authority_n(10)	.	.	.005
	authority_n(11)	.	.	-.013
	authority_n(12)	.	.	.000
	authority_n(13)	.	.	-.118
	authority_n(14)	.	.	.030
	authority_n(15)	.	.	.020
	authority_n(16)	.	.	.
	authority_n(17)	.	.	.
	authority_n(18)	.	.	-.063
	authority_n(19)	.	.	.
	authority_n(20)	.	.	.
	area_site	.	.	1.000

Correlation Matrix

		status(1)	status(2)
Step 3	Constant		
	type_site(1)		
	type_site(2)		
	type_site(3)		
	type_site(4)		
	type_site(5)		
	region(1)		
	region(2)		
	region(3)		
	authority_n(1)		
	authority_n(2)		
	authority_n(3)		
	authority_n(4)		
	authority_n(5)		
	authority_n(6)		
	authority_n(7)		
	authority_n(8)		
	authority_n(9)		
	authority_n(10)		
	authority_n(11)		
	authority_n(12)		
	authority_n(13)		
	authority_n(14)		
	authority_n(15)		
	authority_n(16)		
	authority_n(17)		
	authority_n(18)		
	authority_n(19)		
	authority_n(20)		
	area_site		

Correlation Matrix

		Constant	type_a(1)	type_site(1)	type_site(2)
Step 4	Constant	1.000		-1.000	-1.000
	type_site(1)	-1.000		1.000	1.000
	type_site(2)	-1.000		1.000	1.000
	type_site(3)	-1.000		1.000	1.000
	type_site(4)	-1.000		1.000	1.000
	type_site(5)	-1.000		1.000	1.000
	region(1)	.000		.000	.000
	region(2)	.000		.000	.000
	region(3)	.000		.000	.000
	authority_n(1)	.000		.000	.000
	authority_n(2)	.000		.000	.000
	authority_n(3)	.000		.000	.000
	authority_n(4)	.000		.000	.000
	authority_n(5)	.000		.000	.000
	authority_n(6)	.000		.000	.000
	authority_n(7)	-.274		.274	.274
	authority_n(8)	.000		.000	.000
	authority_n(9)	.000		.000	.000
	authority_n(10)	.000		.000	.000
	authority_n(11)	.000		.000	.000
	authority_n(12)	.000		.000	.000
	authority_n(13)	.000		.000	.000
	authority_n(14)	.000		.000	.000
	authority_n(15)	.000		.000	.000
	authority_n(16)	.		.	.
	authority_n(17)	.		.	.
	authority_n(18)	.000		.000	.000
	authority_n(19)	.		.	.
	authority_n(20)	.		.	.

Correlation Matrix

		type_site(3)	type_site(4)	type_site(5)	region(1)
Step 4	Constant	-1.000	-1.000	-1.000	.000
	type_site(1)	1.000	1.000	1.000	.000
	type_site(2)	1.000	1.000	1.000	.000
	type_site(3)	1.000	1.000	1.000	.000
	type_site(4)	1.000	1.000	1.000	.000
	type_site(5)	1.000	1.000	1.000	.000
	region(1)	.000	.000	.000	1.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.000	.000	.448
	authority_n(1)	.000	.000	.000	-.883
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.274	.274	.274	.000
	authority_n(8)	.000	.000	.000	.262
	authority_n(9)	.000	.000	.000	.193
	authority_n(10)	.000	.000	.000	-.001
	authority_n(11)	.000	.000	.000	-.766
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.106
	authority_n(14)	.000	.000	.000	-.658
	authority_n(15)	.000	.000	.000	-.755
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	-.167
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		region(2)	region(3)	authority_n(1)	authority_n(2)
Step 4	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.000	.448	-.883	.000
	region(2)	1.000	.000	.000	.000
	region(3)	.000	1.000	-.035	.000
	authority_n(1)	.000	-.035	1.000	.000
	authority_n(2)	.000	.000	.000	1.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	-.680	.000	.000	.000
	authority_n(8)	.000	.546	.021	.000
	authority_n(9)	.000	.399	.013	.000
	authority_n(10)	.000	-.030	.000	.000
	authority_n(11)	.000	-.157	.785	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.218	.005	.000
	authority_n(14)	.000	-.136	.674	.000
	authority_n(15)	.000	-.103	.789	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	-.400	.039	.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n(3)	authority_n(4)	authority_n(5)	authority_n(6)
Step 4	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.000	.000	.000	.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.000	.000	.000
	authority_n(1)	.000	.000	.000	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	1.000	.000	.000	.000
	authority_n(4)	.000	1.000	.000	.000
	authority_n(5)	.000	.000	1.000	.000
	authority_n(6)	.000	.000	.000	1.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.000	.000	.000	.000
	authority_n(9)	.000	.000	.000	.000
	authority_n(10)	.000	.000	.000	.000
	authority_n(11)	.000	.000	.000	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.000
	authority_n(14)	.000	.000	.000	.000
	authority_n(15)	.000	.000	.000	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n(7)	authority_n(8)	authority_n(9)	authority_n(10)
Step 4	Constant	-.274	.000	.000	.000
	type_site(1)	.274	.000	.000	.000
	type_site(2)	.274	.000	.000	.000
	type_site(3)	.274	.000	.000	.000
	type_site(4)	.274	.000	.000	.000
	type_site(5)	.274	.000	.000	.000
	region(1)	.000	.262	.193	-.001
	region(2)	-.680	.000	.000	.000
	region(3)	.000	.546	.399	-.030
	authority_n(1)	.000	.021	.013	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	1.000	.000	.000	.000
	authority_n(8)	.000	1.000	.526	-.002
	authority_n(9)	.000	.526	1.000	-.001
	authority_n(10)	.000	-.002	-.001	1.000
	authority_n(11)	.000	.092	.058	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.269	.250	.000
	authority_n(14)	.000	.078	.049	.000
	authority_n(15)	.000	.037	.027	.000
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.063	.059	.022
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n (11)	authority_n (12)	authority_n (13)	authority_n (14)
Step 4	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	-.766	.000	.106	-.658
	region(2)	.000	.000	.000	.000
	region(3)	-.157	.000	.218	-.136
	authority_n(1)	.785	.000	.005	.674
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.092	.000	.269	.078
	authority_n(9)	.058	.000	.250	.049
	authority_n(10)	.000	.000	.000	.000
	authority_n(11)	1.000	.000	.024	.614
	authority_n(12)	.000	1.000	.000	.000
	authority_n(13)	.024	.000	1.000	.021
	authority_n(14)	.614	.000	.021	1.000
	authority_n(15)	.678	.000	.011	.582
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.172	.000	.030	.148
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n (15)	authority_n (16)	authority_n (17)	authority_n (18)
Step 4	Constant	.000	.	.	.000
	type_site(1)	.000	.	.	.000
	type_site(2)	.000	.	.	.000
	type_site(3)	.000	.	.	.000
	type_site(4)	.000	.	.	.000
	type_site(5)	.000	.	.	.000
	region(1)	-.755	.	.	-.167
	region(2)	.000	.	.	.000
	region(3)	-.103	.	.	-.400
	authority_n(1)	.789	.	.	.039
	authority_n(2)	.000	.	.	.000
	authority_n(3)	.000	.	.	.000
	authority_n(4)	.000	.	.	.000
	authority_n(5)	.000	.	.	.000
	authority_n(6)	.000	.	.	.000
	authority_n(7)	.000	.	.	.000
	authority_n(8)	.037	.	.	.063
	authority_n(9)	.027	.	.	.059
	authority_n(10)	.000	.	.	.022
	authority_n(11)	.678	.	.	.172
	authority_n(12)	.000	.	.	.000
	authority_n(13)	.011	.	.	.030
	authority_n(14)	.582	.	.	.148
	authority_n(15)	1.000	.	.	.104
	authority_n(16)	.	.	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.104	.	.	1.000
	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n (19)	authority_n (20)	area_site
Step 4	Constant	.	.	
	type_site(1)	.	.	
	type_site(2)	.	.	
	type_site(3)	.	.	
	type_site(4)	.	.	
	type_site(5)	.	.	
	region(1)	.	.	
	region(2)	.	.	
	region(3)	.	.	
	authority_n(1)	.	.	
	authority_n(2)	.	.	
	authority_n(3)	.	.	
	authority_n(4)	.	.	
	authority_n(5)	.	.	
	authority_n(6)	.	.	
	authority_n(7)	.	.	
	authority_n(8)	.	.	
	authority_n(9)	.	.	
	authority_n(10)	.	.	
	authority_n(11)	.	.	
	authority_n(12)	.	.	
	authority_n(13)	.	.	
	authority_n(14)	.	.	
	authority_n(15)	.	.	
	authority_n(16)	.	.	
	authority_n(17)	.	.	
	authority_n(18)	.	.	
	authority_n(19)	.	.	
	authority_n(20)	.	.	

Correlation Matrix

		status(1)	status(2)
Step 4	Constant		
	type_site(1)		
	type_site(2)		
	type_site(3)		
	type_site(4)		
	type_site(5)		
	region(1)		
	region(2)		
	region(3)		
	authority_n(1)		
	authority_n(2)		
	authority_n(3)		
	authority_n(4)		
	authority_n(5)		
	authority_n(6)		
	authority_n(7)		
	authority_n(8)		
	authority_n(9)		
	authority_n(10)		
	authority_n(11)		
	authority_n(12)		
	authority_n(13)		
	authority_n(14)		
	authority_n(15)		
	authority_n(16)		
	authority_n(17)		
	authority_n(18)		
	authority_n(19)		
	authority_n(20)		

Model if Term Removed

Variable		Model Log Likelihood	Change in -2 Log Likelihood	df	Sig. of the Change
Step 1	type_a	-311.269	.007	1	.934
	type_site	-357.700	92.868	5	.000
	region	-320.472	18.412	3	.000
	authority_n	-334.518	46.504	16	.000
	area_site	-311.991	1.449	1	.229
	status	-311.809	1.086	2	.581
Step 2	type_site	-365.454	108.369	5	.000
	region	-332.863	43.187	3	.000
	authority_n	-334.821	47.102	16	.000
	area_site	-311.998	1.457	1	.227
	status	-311.847	1.155	2	.561
Step 3	type_site	-372.148	120.602	5	.000
	region	-334.514	45.334	3	.000
	authority_n	-340.542	57.390	16	.000
	area_site	-312.597	1.500	1	.221
Step 4	type_site	-373.275	121.357	5	.000
	region	-335.034	44.874	3	.000
	authority_n	-341.202	57.209	16	.000

Logistic Regression – Forward Stepwise (Including Agriculture Contaminated Sites)

Block 1: Method = Forward Stepwise (Likelihood Ratio)

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	152.314	5	.000
	Block	152.314	5	.000
	Model	152.314	5	.000
Step 2	Step	83.682	3	.000
	Block	235.996	8	.000
	Model	235.996	8	.000
Step 3	Step	57.304	17	.000
	Block	293.300	25	.000
	Model	293.300	25	.000

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	766.085[a]	.181	.259
2	682.403[a]	.266	.380
3	625.099[a]	.319	.456

a. Estimation terminated at iteration number 20 because maximum iterations has been reached. Final solution cannot be found.

Classification Table[a]

			Predicted		
			vacancy		
	Observed		0	1	Percentage Correct
Step 1	vacancy	0	76	145	34.4
		1	22	520	95.9
	Overall Percentage				78.1
Step 2	vacancy	0	68	153	30.8
		1	19	523	96.5
	Overall Percentage				77.5
Step 3	vacancy	0	94	127	42.5
		1	28	514	94.8
	Overall Percentage				79.7

a. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 1[a]	type_site			97.649	5	.000	
	type_site(1)	22.643	15191.495	.000	1	.999	6.822E9
	type_site(2)	22.707	15191.495	.000	1	.999	7.270E9
	type_site(3)	21.406	15191.495	.000	1	.999	1.980E9
	type_site(4)	19.393	15191.495	.000	1	.999	2.643E8
	type_site(5)	21.129	15191.495	.000	1	.999	1.500E9
	Constant	-21.203	15191.495	.000	1	.999	.000
Step 2[b]	type_site			98.584	5	.000	
	type_site(1)	37.920	18517.650	.000	1	.998	2.939E16
	type_site(2)	37.067	18517.650	.000	1	.998	1.253E16
	type_site(3)	35.918	18517.650	.000	1	.998	3.972E15
	type_site(4)	33.906	18517.650	.000	1	.999	5.313E14
	type_site(5)	35.669	18517.650	.000	1	.998	3.097E15
	region			65.744	3	.000	
	region(1)	.326	.326	1.002	1	.317	1.385
	region(2)	16.603	13093.754	.000	1	.999	16244919.040
	region(3)	-1.680	.335	25.102	1	.000	.186
	Constant	-35.563	18517.650	.000	1	.998	.000
Step 3[c]	type_site			59.629	5	.000	
	type_site(1)	24.386	16180.624	.000	1	.999	3.897E10
	type_site(2)	22.171	16180.624	.000	1	.999	4.256E9
	type_site(3)	21.811	16180.624	.000	1	.999	2.967E9
	type_site(4)	19.312	16180.624	.000	1	.999	2.438E8
	type_site(5)	21.438	16180.624	.000	1	.999	2.043E9
	region			19.146	3	.000	
	region(1)	-4.688	1.425	10.832	1	.001	.009
	region(2)	17.271	40192.970	.000	1	1.000	31664063.576
	region(3)	-3.345	.798	17.557	1	.000	.035
	authority_n			31.506	17	.017	
	authority_n(1)	3.606	1.232	8.563	1	.003	36.829
	authority_n(2)	17.271	13397.657	.000	1	.999	31664063.577
	authority_n(3)	-21.173	21757.206	.000	1	.999	.000
	authority_n(4)	23.564	28420.722	.000	1	.999	1.713E10
	authority_n(5)	-19.039	28321.963	.000	1	.999	.000
	authority_n(6)	-18.112	16642.944	.000	1	.999	.000
	authority_n(7)	-18.020	59099.596	.000	1	1.000	.000
	authority_n(8)	-1.614	.748	4.656	1	.031	.199
	authority_n(9)	-.519	.801	.420	1	.517	.595
	authority_n(10)	-.189	.918	.043	1	.836	.827

a. Variable(s) entered on step 1: type_site.

b. Variable(s) entered on step 2: region.

c. Variable(s) entered on step 3: authority_n.

Variables in the Equation

		95% C.I.for EXP(B)	
		Lower	Upper
Step 1[a]	type_site		
	type_site(1)	.000	.
	type_site(2)	.000	.
	type_site(3)	.000	.
	type_site(4)	.000	.
	type_site(5)	.000	.
	Constant		
Step 2[b]	type_site		
	type_site(1)	.000	.
	type_site(2)	.000	.
	type_site(3)	.000	.
	type_site(4)	.000	.
	type_site(5)	.000	.
	region		
	region(1)	.732	2.622
	region(2)	.000	.
	region(3)	.097	.360
	Constant		
Step 3[c]	type_site		
	type_site(1)	.000	.
	type_site(2)	.000	.
	type_site(3)	.000	.
	type_site(4)	.000	.
	type_site(5)	.000	.
	region		
	region(1)	.001	.150
	region(2)	.000	.
	region(3)	.007	.169
	authority_n		
	authority_n(1)	3.290	412.271
	authority_n(2)	.000	.
	authority_n(3)	.000	.
	authority_n(4)	.000	.
	authority_n(5)	.000	.
	authority_n(6)	.000	.
	authority_n(7)	.000	.
	authority_n(8)	.046	.862
	authority_n(9)	.124	2.860
	authority_n(10)	.137	4.999

a. Variable(s) entered on step 1: type_site.

b. Variable(s) entered on step 2: region.

c. Variable(s) entered on step 3: authority_n.

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 3[c]	authority_n(11)	4.530	1.539	8.668	1	.003	92.732
	authority_n(12)	24.411	10509.467	.000	1	.998	3.995E10
	authority_n(13)	-.288	.976	.087	1	.768	.750
	authority_n(14)	2.757	1.791	2.371	1	.124	15.757
	authority_n(15)	4.815	1.513	10.129	1	.001	123.333
	authority_n(16)	-.293	.950	.095	1	.758	.746
	authority_n(18)	3.220	.870	13.687	1	.000	25.017
	Constant	-20.454	16180.624	.000	1	.999	.000

a. Variable(s) entered on step 1: type_site.

c. Variable(s) entered on step 3: authority_n.

Variables in the Equation

		95% C.I.for EXP(B)	
		Lower	Upper
Step 3[c]	authority_n(11)	4.546	1891.584
	authority_n(12)	.000	.
	authority_n(13)	.111	5.074
	authority_n(14)	.471	526.882
	authority_n(15)	6.358	2392.543
	authority_n(16)	.116	4.799
	authority_n(18)	4.544	137.720
	Constant		

a. Variable(s) entered on step 1: type_site.

c. Variable(s) entered on step 3: authority_n.

Correlation Matrix

		Constant	type_site(1)	type_site(2)	type_site(3)	type_site(4)
Step 1	Constant	1.000	-1.000	-1.000	-1.000	-1.000
	type_site(1)	-1.000	1.000	1.000	1.000	1.000
	type_site(2)	-1.000	1.000	1.000	1.000	1.000
	type_site(3)	-1.000	1.000	1.000	1.000	1.000
	type_site(4)	-1.000	1.000	1.000	1.000	1.000
	type_site(5)	-1.000	1.000	1.000	1.000	1.000
Step 2	Constant	1.000	-1.000	-1.000	-1.000	-1.000
	type_site(1)	-1.000	1.000	1.000	1.000	1.000
	type_site(2)	-1.000	1.000	1.000	1.000	1.000
	type_site(3)	-1.000	1.000	1.000	1.000	1.000
	type_site(4)	-1.000	1.000	1.000	1.000	1.000
	type_site(5)	-1.000	1.000	1.000	1.000	1.000
	region(1)	.000	.000	.000	.000	.000
	region(2)	-.707	.707	.707	.707	.707
	region(3)	.000	.000	.000	.000	.000
Step 3	Constant					
	type_site(1)					
	type_site(2)					
	type_site(3)					
	type_site(4)					
	type_site(5)					
	region(1)					
	region(2)					
	region(3)					
	authority_n(1)					
	authority_n(2)					
	authority_n(3)					
	authority_n(4)					
	authority_n(5)					
	authority_n(6)					
	authority_n(7)					
	authority_n(8)					
	authority_n(9)					
	authority_n(10)					
	authority_n(11)					
	authority_n(12)					
	authority_n(13)					
	authority_n(14)					
	authority_n(15)					
	authority_n(16)					
	authority_n(17)					
	authority_n(18)					

Correlation Matrix

		type_site(5)	region(1)	region(2)	region(3)	Constant
Step 1	Constant	-1.000				
	type_site(1)	1.000				
	type_site(2)	1.000				
	type_site(3)	1.000				
	type_site(4)	1.000				
	type_site(5)	1.000				
Step 2	Constant	-1.000	.000	-.707	.000	
	type_site(1)	1.000	.000	.707	.000	
	type_site(2)	1.000	.000	.707	.000	
	type_site(3)	1.000	.000	.707	.000	
	type_site(4)	1.000	.000	.707	.000	
	type_site(5)	1.000	.000	.707	.000	
	region(1)	.000	1.000	.000	.704	
	region(2)	.707	.000	1.000	.000	
	region(3)	.000	.704	.000	1.000	
Step 3	Constant					1.000
	type_site(1)					-1.000
	type_site(2)					-1.000
	type_site(3)					-1.000
	type_site(4)					-1.000
	type_site(5)					-1.000
	region(1)					.000
	region(2)					.000
	region(3)					.000
	authority_n(1)					.000
	authority_n(2)					.000
	authority_n(3)					.000
	authority_n(4)					.000
	authority_n(5)					.000
	authority_n(6)					.000
	authority_n(7)					-.274
	authority_n(8)					.000
	authority_n(9)					.000
	authority_n(10)					.000
	authority_n(11)					.000
	authority_n(12)					.000
	authority_n(13)					.000
	authority_n(14)					.000
	authority_n(15)					.000
	authority_n(16)					.000
	authority_n(17)					.
	authority_n(18)					.000

Correlation Matrix

		type_site(1)	type_site(2)	type_site(3)	type_site(4)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
Step 2	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
	region(1)				
	region(2)				
	region(3)				
Step 3	Constant	-1.000	-1.000	-1.000	-1.000
	type_site(1)	1.000	1.000	1.000	1.000
	type_site(2)	1.000	1.000	1.000	1.000
	type_site(3)	1.000	1.000	1.000	1.000
	type_site(4)	1.000	1.000	1.000	1.000
	type_site(5)	1.000	1.000	1.000	1.000
	region(1)	.000	.000	.000	.000
	region(2)	.000	.000	.000	.000
	region(3)	.000	.000	.000	.000
	authority_n(1)	.000	.000	.000	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.274	.274	.274	.274
	authority_n(8)	.000	.000	.000	.000
	authority_n(9)	.000	.000	.000	.000
	authority_n(10)	.000	.000	.000	.000
	authority_n(11)	.000	.000	.000	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.000
	authority_n(14)	.000	.000	.000	.000
	authority_n(15)	.000	.000	.000	.000
	authority_n(16)	.000	.000	.000	.000
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	.000

Correlation Matrix

		type_site(5)	region(1)	region(2)	region(3)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
Step 2	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
	region(1)				
	region(2)				
	region(3)				
Step 3	Constant	-1.000	.000	.000	.000
	type_site(1)	1.000	.000	.000	.000
	type_site(2)	1.000	.000	.000	.000
	type_site(3)	1.000	.000	.000	.000
	type_site(4)	1.000	.000	.000	.000
	type_site(5)	1.000	.000	.000	.000
	region(1)	.000	1.000	.000	.530
	region(2)	.000	.000	1.000	.000
	region(3)	.000	.530	.000	1.000
	authority_n(1)	.000	-.842	.000	-.038
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.274	.000	-.680	.000
	authority_n(8)	.000	.366	.000	.661
	authority_n(9)	.000	.290	.000	.522
	authority_n(10)	.000	-.001	.000	-.025
	authority_n(11)	.000	-.747	.000	-.168
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.186	.000	.333
	authority_n(14)	.000	-.642	.000	-.145
	authority_n(15)	.000	-.730	.000	-.114
	authority_n(16)	.000	.330	.000	.602
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	-.211	.000	-.421

Correlation Matrix

		authority_n(1)	authority_n(2)	authority_n(3)	authority_n(4)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
Step 2	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
	region(1)				
	region(2)				
	region(3)				
Step 3	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	-.842	.000	.000	.000
	region(2)	.000	.000	.000	.000
	region(3)	-.038	.000	.000	.000
	authority_n(1)	1.000	.000	.000	.000
	authority_n(2)	.000	1.000	.000	.000
	authority_n(3)	.000	.000	1.000	.000
	authority_n(4)	.000	.000	.000	1.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.011	.000	.000	.000
	authority_n(9)	.006	.000	.000	.000
	authority_n(10)	.000	.000	.000	.000
	authority_n(11)	.785	.000	.000	.000
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.000
	authority_n(14)	.674	.000	.000	.000
	authority_n(15)	.788	.000	.000	.000
	authority_n(16)	-.018	.000	.000	.000
	authority_n(17)	.	.	.	.
	authority_n(18)	.042	.000	.000	.000

Correlation Matrix

		authority_n(5)	authority_n(6)	authority_n(7)	authority_n(8)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
Step 2	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
	region(1)				
	region(2)				
	region(3)				
Step 3	Constant	.000	.000	-.274	.000
	type_site(1)	.000	.000	.274	.000
	type_site(2)	.000	.000	.274	.000
	type_site(3)	.000	.000	.274	.000
	type_site(4)	.000	.000	.274	.000
	type_site(5)	.000	.000	.274	.000
	region(1)	.000	.000	.000	.366
	region(2)	.000	.000	-.680	.000
	region(3)	.000	.000	.000	.661
	authority_n(1)	.000	.000	.000	.011
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	1.000	.000	.000	.000
	authority_n(6)	.000	1.000	.000	.000
	authority_n(7)	.000	.000	1.000	.000
	authority_n(8)	.000	.000	.000	1.000
	authority_n(9)	.000	.000	.000	.607
	authority_n(10)	.000	.000	.000	-.002
	authority_n(11)	.000	.000	.000	.050
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	.000	.000	.000	.358
	authority_n(14)	.000	.000	.000	.042
	authority_n(15)	.000	.000	.000	.010
	authority_n(16)	.000	.000	.000	.469
	authority_n(17)	.	.	.	.
	authority_n(18)	.000	.000	.000	-.024

Correlation Matrix

		authority_n(9)	authority_n (10)	authority_n (11)	authority_n (12)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
Step 2	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
	region(1)				
	region(2)				
	region(3)				
Step 3	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.290	-.001	-.747	.000
	region(2)	.000	.000	.000	.000
	region(3)	.522	-.025	-.168	.000
	authority_n(1)	.006	.000	.785	.000
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.607	-.002	.050	.000
	authority_n(9)	1.000	-.001	.027	.000
	authority_n(10)	-.001	1.000	.000	.000
	authority_n(11)	.027	.000	1.000	.000
	authority_n(12)	.000	.000	.000	1.000
	authority_n(13)	.329	.000	.003	.000
	authority_n(14)	.023	.000	.616	.000
	authority_n(15)	.006	.000	.679	.000
	authority_n(16)	.391	-.001	-.076	.000
	authority_n(17)	.	.	.	.
	authority_n(18)	-.013	.022	.181	.000

Correlation Matrix

		authority_n (13)	authority_n (14)	authority_n (15)	authority_n (16)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
Step 2	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
	region(1)				
	region(2)				
	region(3)				
Step 3	Constant	.000	.000	.000	.000
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	type_site(5)	.000	.000	.000	.000
	region(1)	.186	-.642	-.730	.330
	region(2)	.000	.000	.000	.000
	region(3)	.333	-.145	-.114	.602
	authority_n(1)	.000	.674	.788	-.018
	authority_n(2)	.000	.000	.000	.000
	authority_n(3)	.000	.000	.000	.000
	authority_n(4)	.000	.000	.000	.000
	authority_n(5)	.000	.000	.000	.000
	authority_n(6)	.000	.000	.000	.000
	authority_n(7)	.000	.000	.000	.000
	authority_n(8)	.358	.042	.010	.469
	authority_n(9)	.329	.023	.006	.391
	authority_n(10)	.000	.000	.000	-.001
	authority_n(11)	.003	.616	.679	-.076
	authority_n(12)	.000	.000	.000	.000
	authority_n(13)	1.000	.003	-.004	.286
	authority_n(14)	.003	1.000	.583	-.066
	authority_n(15)	-.004	.583	1.000	-.054
	authority_n(16)	.286	-.066	-.054	1.000
	authority_n(17)	.	.	.	.
	authority_n(18)	-.021	.156	.113	-.187

Correlation Matrix

		authority_n (17)	authority_n (18)	authority_n (19)	authority_n (20)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
Step 2	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
	type_site(5)				
	region(1)				
	region(2)				
	region(3)				
Step 3	Constant	.	.000	.	.
	type_site(1)	.	.000	.	.
	type_site(2)	.	.000	.	.
	type_site(3)	.	.000	.	.
	type_site(4)	.	.000	.	.
	type_site(5)	.	.000	.	.
	region(1)	.	-.211	.	.
	region(2)	.	.000	.	.
	region(3)	.	-.421	.	.
	authority_n(1)	.	.042	.	.
	authority_n(2)	.	.000	.	.
	authority_n(3)	.	.000	.	.
	authority_n(4)	.	.000	.	.
	authority_n(5)	.	.000	.	.
	authority_n(6)	.	.000	.	.
	authority_n(7)	.	.000	.	.
	authority_n(8)	.	-.024	.	.
	authority_n(9)	.	-.013	.	.
	authority_n(10)	.	.022	.	.
	authority_n(11)	.	.181	.	.
	authority_n(12)	.	.000	.	.
	authority_n(13)	.	-.021	.	.
	authority_n(14)	.	.156	.	.
	authority_n(15)	.	.113	.	.
	authority_n(16)	.	-.187	.	.
	authority_n(17)	.	.	.	.
	authority_n(18)	.	1.000	.	.

Correlation Matrix

		Constant	type_site(1)	type_site(2)	type_site(3)	type_site(4)
Step 3	authority_n(19)					
	authority_n(20)					

Correlation Matrix

		type_site(5)	region(1)	region(2)	region(3)	Constant
Step 3	authority_n(19)					.
	authority_n(20)					.

Correlation Matrix

		type_site(1)	type_site(2)	type_site(3)	type_site(4)
Step 3	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		type_site(5)	region(1)	region(2)	region(3)
Step 3	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n(1)	authority_n(2)	authority_n(3)	authority_n(4)
Step 3	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n(5)	authority_n(6)	authority_n(7)	authority_n(8)
Step 3	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n(9)	authority_n (10)	authority_n (11)	authority_n (12)
Step 3	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n (13)	authority_n (14)	authority_n (15)	authority_n (16)
Step 3	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Correlation Matrix

		authority_n (17)	authority_n (18)	authority_n (19)	authority_n (20)
Step 3	authority_n(19)	.	.	.	.
	authority_n(20)	.	.	.	.

Model if Term Removed

Variable		Model Log Likelihood	Change in -2 Log Likelihood	df	Sig. of the Change
Step 1	type_site	-459.200	152.314	5	.000
Step 2	type_site	-422.329	162.256	5	.000
	region	-383.043	83.682	3	.000
Step 3	type_site	-364.088	103.077	5	.000
	region	-323.280	21.461	3	.000
	authority_n	-341.202	57.304	17	.000

Logistic Regression – Backward Stepwise (Excluding Agriculture Contaminated Sites)

Block 1: Method = Backward Stepwise (Likelihood Ratio)

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	92.832	25	.000
	Block	92.832	25	.000
	Model	92.832	25	.000
Step 2[a]	Step	-1.230	2	.541
	Block	91.601	23	.000
	Model	91.601	23	.000
Step 3[a]	Step	-1.646	1	.199
	Block	89.955	22	.000
	Model	89.955	22	.000
Step 4[a]	Step	-4.955	3	.175
	Block	85.000	19	.000
	Model	85.000	21	.000
Step 5[a]	Step	-2.345	1	.126
	Block	82.655	18	.000
	Model	82.655	18	.000

a. A negative Chi-squares value indicates that the Chi-squares value has decreased from the previous step.

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	144.863[a]	.406	.551
2	146.093[a]	.402	.546
3	147.739[a]	.397	.538
4	152.695[a]	.380	.515
5	155.040[a]	.371	.504

a. Estimation terminated at iteration number 20 because maximum iterations has been reached. Final solution cannot be found.

Classification Table[a]

Observed			Predicted		
			vacancy		
			0	1	Percentage Correct
Step 1	vacancy	0	100	9	91.7
		1	27	42	60.9
	Overall Percentage				79.8
Step 2	vacancy	0	100	9	91.7
		1	27	42	60.9
	Overall Percentage				79.8
Step 3	vacancy	0	100	9	91.7
		1	26	43	62.3
	Overall Percentage				80.3
Step 4	vacancy	0	98	11	89.9
		1	26	43	62.3
	Overall Percentage				79.2
Step 5	vacancy	0	98	11	89.9
		1	26	43	62.3
	Overall Percentage				79.2

a. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 1[a]	type_a(1)	-1.647	1.504	1.198	1	.274	.193
	type_site			23.876	4	.000	
	type_site(1)	20.755	15230.774	.000	1	.999	1.032E9
	type_site(2)	21.493	15230.774	.000	1	.999	2.159E9
	type_site(3)	17.805	15230.774	.000	1	.999	54029607.338
	type_site(4)	21.192	15230.774	.000	1	.999	1.598E9
	region			.064	3	.996	
	region(1)	-21.400	13436.583	.000	1	.999	.000
	region(2)	-1.690	42981.988	.000	1	1.000	.184
	region(3)	-.265	1.048	.064	1	.800	.767
	authority_n			8.388	14	.868	
	authority_n(1)	17.845	13436.583	.000	1	.999	56260003.620
	authority_n(2)	-21.528	20780.550	.000	1	.999	.000
	authority_n(3)	21.415	28402.777	.000	1	.999	1.997E9
	authority_n(4)	-21.679	28227.387	.000	1	.999	.000
	authority_n(5)	-22.175	15749.773	.000	1	.999	.000
	authority_n(7)	-.981	1.549	.400	1	.527	.375
	authority_n(8)	-1.041	.968	1.158	1	.282	.353
	authority_n(9)	24.241	40192.970	.000	1	1.000	3.372E10

a. Variable(s) entered on step 1: type_a, type_site, region, authority_n, area_site, status.

Variables in the Equation

		95% C.I.for EXP(B)	
		Lower	Upper
Step 1[a]	type_a(1)	.010	3.675
	type_site		
	type_site(1)	.000	.
	type_site(2)	.000	.
	type_site(3)	.000	.
	type_site(4)	.000	.
	region		
	region(1)	.000	.
	region(2)	.000	.
	region(3)	.098	5.976
	authority_n		
	authority_n(1)	.000	.
	authority_n(2)	.000	.
	authority_n(3)	.000	.
	authority_n(4)	.000	.
	authority_n(5)	.000	.
	authority_n(7)	.018	7.818
	authority_n(8)	.053	2.353
	authority_n(9)	.000	.

a. Variable(s) entered on step 1: type_a, type_site, region, authority_n, area_site, status.

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 1[a]	authority_n(10)	20.400	13436.583	.000	1	.999	7.241E8
	authority_n(11)	43.729	42379.436	.000	1	.999	9.802E18
	authority_n(12)	.470	1.058	.197	1	.657	1.600
	authority_n(13)	19.917	13436.583	.000	1	.999	4.466E8
	authority_n(14)	21.690	13436.583	.000	1	.999	2.629E9
	authority_n(17)	-.458	1.248	.135	1	.714	.633
	area_site	.000	.000	.862	1	.353	1.000
	status			1.184	2	.553	
	status(1)	.436	1.143	.146	1	.703	1.547
	status(2)	-.272	1.195	.052	1	.820	.762
	Constant	-19.365	15230.774	.000	1	.999	.000
Step 2[a]	type_a(1)	-1.755	1.453	1.458	1	.227	.173
	type_site			25.864	4	.000	
	type_site(1)	20.869	15540.960	.000	1	.999	1.157E9
	type_site(2)	21.378	15540.960	.000	1	.999	1.924E9
	type_site(3)	17.795	15540.960	.000	1	.999	53508708.520
	type_site(4)	21.014	15540.960	.000	1	.999	1.338E9
	region			.029	3	.999	
	region(1)	-21.105	13715.298	.000	1	.999	.000
	region(2)	-1.425	43092.880	.000	1	1.000	.240
	region(3)	-.178	1.054	.029	1	.866	.837
	authority_n			9.282	14	.813	
	authority_n(1)	17.884	13715.298	.000	1	.999	58442626.546
	authority_n(2)	-21.809	20495.628	.000	1	.999	.000
	authority_n(3)	21.391	28398.601	.000	1	.999	1.950E9
	authority_n(4)	-21.321	28303.445	.000	1	.999	.000
	authority_n(5)	-21.924	15763.306	.000	1	.999	.000
	authority_n(7)	-.580	1.479	.154	1	.695	.560
	authority_n(8)	-.922	.918	1.008	1	.315	.398
	authority_n(9)	24.472	40192.970	.000	1	1.000	4.247E10
	authority_n(10)	20.179	13715.298	.000	1	.999	5.803E8
	authority_n(11)	43.645	42468.627	.000	1	.999	9.007E18
	authority_n(12)	.391	1.055	.137	1	.711	1.478
	authority_n(13)	20.068	13715.298	.000	1	.999	5.194E8
	authority_n(14)	21.472	13715.298	.000	1	.999	2.114E9
	authority_n(17)	-.392	1.247	.099	1	.753	.676
	area_site	.000	.000	1.023	1	.312	1.000
	Constant	-19.128	15540.960	.000	1	.999	.000

a. Variable(s) entered on step 1: type_a, type_site, region, authority_n, area_site, status.

Variables in the Equation

		95% C.I.for EXP(B)	
		Lower	Upper
Step 1[a]	authority_n(10)	.000	.
	authority_n(11)	.000	.
	authority_n(12)	.201	12.736
	authority_n(13)	.000	.
	authority_n(14)	.000	.
	authority_n(17)	.055	7.301
	area_site	1.000	1.000
	status		
	status(1)	.165	14.533
	status(2)	.073	7.927
	Constant		
Step 2[a]	type_a(1)	.010	2.984
	type_site		
	type_site(1)	.000	.
	type_site(2)	.000	.
	type_site(3)	.000	.
	type_site(4)	.000	.
	region		
	region(1)	.000	.
	region(2)	.000	.
	region(3)	.106	6.607
	authority_n		
	authority_n(1)	.000	.
	authority_n(2)	.000	.
	authority_n(3)	.000	.
	authority_n(4)	.000	.
	authority_n(5)	.000	.
	authority_n(7)	.031	10.156
	authority_n(8)	.066	2.406
	authority_n(9)	.000	.
	authority_n(10)	.000	.
	authority_n(11)	.000	.
	authority_n(12)	.187	11.697
	authority_n(13)	.000	.
	authority_n(14)	.000	.
	authority_n(17)	.059	7.784
	area_site	1.000	1.000
	Constant		

a. Variable(s) entered on step 1: type_a, type_site, region, authority_n, area_site, status.

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 3[a]	type_site			26.609	4	.000	
	type_site(1)	20.700	15435.444	.000	1	.999	9.769E8
	type_site(2)	21.319	15435.444	.000	1	.999	1.814E9
	type_site(3)	17.788	15435.444	.000	1	.999	53096778.928
	type_site(4)	20.892	15435.444	.000	1	.999	1.184E9
	region			.006	3	1.000	
	region(1)	-20.775	13813.121	.000	1	.999	.000
	region(2)	-1.075	43054.939	.000	1	1.000	.341
	region(3)	.083	1.033	.006	1	.936	1.087
	authority_n			15.199	14	.365	
	authority_n(1)	17.874	13813.121	.000	1	.999	57878808.500
	authority_n(2)	-21.468	20606.932	.000	1	.999	.000
	authority_n(3)	19.761	28389.421	.000	1	.999	3.820E8
	authority_n(4)	-23.009	28284.114	.000	1	.999	.000
	authority_n(5)	-21.865	15807.823	.000	1	.999	.000
	authority_n(7)	-2.011	.833	5.823	1	.016	.134
	authority_n(8)	-.591	.864	.468	1	.494	.554
	authority_n(9)	22.702	40192.970	.000	1	1.000	7.234E9
	authority_n(10)	20.187	13813.121	.000	1	.999	5.850E8
	authority_n(11)	43.561	42500.320	.000	1	.999	8.285E18
	authority_n(12)	.740	.997	.551	1	.458	2.096
	authority_n(13)	18.306	13813.121	.000	1	.999	89139939.532
	authority_n(14)	21.418	13813.121	.000	1	.999	2.003E9
	authority_n(17)	-.337	1.229	.075	1	.784	.714
	area_site	.000	.000	1.367	1	.242	1.000
	Constant	-19.366	15435.444	.000	1	.999	.000

a. Variable(s) entered on step 1: type_a, type_site, region, authority_n, area_site, status.

Variables in the Equation

		95% C.I.for EXP(B)	
		Lower	Upper
Step 3[a]	type_site		
	type_site(1)	.000	.
	type_site(2)	.000	.
	type_site(3)	.000	.
	type_site(4)	.000	.
	region		
	region(1)	.000	.
	region(2)	.000	.
	region(3)	.144	8.226
	authority_n		
	authority_n(1)	.000	.
	authority_n(2)	.000	.
	authority_n(3)	.000	.
	authority_n(4)	.000	.
	authority_n(5)	.000	.
	authority_n(7)	.026	.686
	authority_n(8)	.102	3.011
	authority_n(9)	.000	.
	authority_n(10)	.000	.
	authority_n(11)	.000	.
	authority_n(12)	.297	14.788
	authority_n(13)	.000	.
	authority_n(14)	.000	.
	authority_n(17)	.064	7.936
	area_site	1.000	1.000
	Constant		

a. Variable(s) entered on step 1: type_a, type_site, region, authority_n, area_site, status.

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 4[a]	type_site			28.636	4	.000	
	type_site(1)	21.088	14400.572	.000	1	.999	1.440E9
	type_site(2)	21.457	14400.572	.000	1	.999	2.083E9
	type_site(3)	18.037	14400.572	.000	1	.999	68133313.659
	type_site(4)	20.919	14400.572	.000	1	.999	1.216E9
	authority_n			16.230	14	.300	
	authority_n(1)	-2.516	.927	7.369	1	.007	.081
	authority_n(2)	-21.019	20749.398	.000	1	.999	.000
	authority_n(3)	20.314	28393.866	.000	1	.999	6.643E8
	authority_n(4)	-22.513	28250.014	.000	1	.999	.000
	authority_n(5)	-21.386	15837.021	.000	1	.999	.000
	authority_n(7)	-1.628	.731	4.953	1	.026	.196
	authority_n(8)	-.265	.791	.112	1	.738	.767
	authority_n(9)	23.046	40192.970	.000	1	1.000	1.020E10
	authority_n(10)	-.198	1.038	.036	1	.849	.821
	authority_n(11)	23.046	40192.970	.000	1	1.000	1.020E10
	authority_n(12)	.973	.972	1.004	1	.316	2.647
	authority_n(13)	-2.069	1.397	2.194	1	.139	.126
	authority_n(14)	.965	1.531	.397	1	.528	2.625
	authority_n(17)	.084	.923	.008	1	.928	1.088
	area_site	.000	.000	1.231	1	.267	1.000
	Constant	-19.876	14400.572	.000	1	.999	.000

a. Variable(s) entered on step 1: type_a, type_site, region, authority_n, area_site, status.

Logistic Regression – Forward Stepwise

(Excluding Agriculture Contaminated Sites)

Block 1: Method = Forward Stepwise (Likelihood Ratio)

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	42.947	4	.000
	Block	42.947	4	.000
	Model	42.947	4	.000
Step 2	Step	46.577	18	.000
	Block	89.524	22	.000
	Model	89.524	22	.000

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	194.747[a]	.214	.291
2	148.171[a]	.395	.536

a. Estimation terminated at iteration number 20 because maximum iterations has been reached. Final solution cannot be found.

Classification Table[a]

			Predicted		
			vacancy		
	Observed		0	1	Percentage Correct
Step 1	vacancy	0	76	33	69.7
		1	22	47	68.1
	Overall Percentage				69.1
Step 2	vacancy	0	100	9	91.7
		1	27	42	60.9
	Overall Percentage				79.8

a. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 1[a]	type_site			27.579	4	.000	
	type_site(1)	22.707	15191.580	.000	1	.999	7.270E9
	type_site(2)	21.406	15191.580	.000	1	.999	1.980E9
	type_site(3)	19.393	15191.580	.000	1	.999	2.644E8
	type_site(4)	21.129	15191.580	.000	1	.999	1.500E9
	Constant	-21.203	15191.580	.000	1	.999	.000
Step 2[b]	type_site			25.299	4	.000	
	type_site(1)	21.653	15767.581	.000	1	.999	2.533E9
	type_site(2)	21.904	15767.581	.000	1	.999	3.256E9
	type_site(3)	18.547	15767.581	.000	1	.999	1.135E8
	type_site(4)	21.635	15767.581	.000	1	.999	2.489E9
	authority_n			18.161	18	.445	
	authority_n(1)	17.971	13760.949	.000	1	.999	63768577.976
	authority_n(2)	-.652	24767.362	.000	1	1.000	.521
	authority_n(3)	40.504	31576.909	.000	1	.999	3.896E17
	authority_n(4)	-2.039	31502.188	.000	1	1.000	.130
	authority_n(5)	-.933	20980.767	.000	1	1.000	.393
	authority_n(6)	19.733	45315.044	.000	1	1.000	3.716E8
	authority_n(7)	18.779	13760.949	.000	1	.999	1.431E8
	authority_n(8)	20.129	13760.949	.000	1	.999	5.519E8
	authority_n(9)	43.592	42483.392	.000	1	.999	8.543E18
	authority_n(10)	20.201	13760.949	.000	1	.999	5.935E8
	authority_n(11)	43.592	42483.392	.000	1	.999	8.543E18
	authority_n(12)	21.335	13760.949	.000	1	.999	1.844E9
	authority_n(13)	18.426	13760.949	.000	1	.999	1.005E8
	authority_n(14)	21.543	13760.949	.000	1	.999	2.271E9
	authority_n(15)	19.080	13760.949	.000	1	.999	1.933E8
	authority_n(16)	21.059	13760.949	.000	1	.999	1.399E9
	authority_n(17)	20.510	13760.949	.000	1	.999	8.081E8
	authority_n(18)	20.883	13760.949	.000	1	.999	1.174E9
	Constant	-40.936	20927.933	.000	1	.998	.000

a. Variable(s) entered on step 1: type_site.

b. Variable(s) entered on step 2: authority_n.

Variables in the Equation

		95% C.I.for EXP(B)	
		Lower	Upper
Step 1[a]	type_site		
	type_site(1)	.000	.
	type_site(2)	.000	.
	type_site(3)	.000	.
	type_site(4)	.000	.
	Constant		
Step 2[b]	type_site		
	type_site(1)	.000	.
	type_site(2)	.000	.
	type_site(3)	.000	.
	type_site(4)	.000	.
	authority_n		
	authority_n(1)	.000	.
	authority_n(2)	.000	.
	authority_n(3)	.000	.
	authority_n(4)	.000	.
	authority_n(5)	.000	.
	authority_n(6)	.000	.
	authority_n(7)	.000	.
	authority_n(8)	.000	.
	authority_n(9)	.000	.
	authority_n(10)	.000	.
	authority_n(11)	.000	.
	authority_n(12)	.000	.
	authority_n(13)	.000	.
	authority_n(14)	.000	.
	authority_n(15)	.000	.
	authority_n(16)	.000	.
	authority_n(17)	.000	.
	authority_n(18)	.000	.
	Constant		

a. Variable(s) entered on step 1: type_site.

b. Variable(s) entered on step 2: authority_n.

Correlation Matrix

		Constant	type_site(1)	type_site(2)	type_site(3)	type_site(4)
Step 1	Constant	1.000	-1.000	-1.000	-1.000	-1.000
	type_site(1)	-1.000	1.000	1.000	1.000	1.000
	type_site(2)	-1.000	1.000	1.000	1.000	1.000
	type_site(3)	-1.000	1.000	1.000	1.000	1.000
	type_site(4)	-1.000	1.000	1.000	1.000	1.000
Step 2	Constant					
	type_site(1)					
	type_site(2)					
	type_site(3)					
	type_site(4)					
	authority_n(1)					
	authority_n(2)					
	authority_n(3)					
	authority_n(4)					
	authority_n(5)					
	authority_n(6)					
	authority_n(7)					
	authority_n(8)					
	authority_n(9)					
	authority_n(10)					
	authority_n(11)					
	authority_n(12)					
	authority_n(13)					
	authority_n(14)					
	authority_n(15)					
	authority_n(16)					
	authority_n(17)					
	authority_n(18)					

Correlation Matrix

		Constant	type_site(1)	type_site(2)	type_site(3)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
Step 2	Constant	1.000	-.753	-.753	-.753
	type_site(1)	-.753	1.000	1.000	1.000
	type_site(2)	-.753	1.000	1.000	1.000
	type_site(3)	-.753	1.000	1.000	1.000
	type_site(4)	-.753	1.000	1.000	1.000
	authority_n(1)	-.658	.000	.000	.000
	authority_n(2)	-.365	.000	.000	.000
	authority_n(3)	-.287	.000	.000	.000
	authority_n(4)	-.287	.000	.000	.000
	authority_n(5)	-.431	.000	.000	.000
	authority_n(6)	-.462	.348	.348	.348
	authority_n(7)	-.658	.000	.000	.000
	authority_n(8)	-.658	.000	.000	.000
	authority_n(9)	-.213	.000	.000	.000
	authority_n(10)	-.658	.000	.000	.000
	authority_n(11)	-.213	.000	.000	.000
	authority_n(12)	-.658	.000	.000	.000
	authority_n(13)	-.658	.000	.000	.000
	authority_n(14)	-.658	.000	.000	.000
	authority_n(15)	-.658	.000	.000	.000
	authority_n(16)	-.658	.000	.000	.000
	authority_n(17)	-.658	.000	.000	.000
	authority_n(18)	-.658	.000	.000	.000

Correlation Matrix

		type_site(4)	authority_n(1)	authority_n(2)	authority_n(3)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
Step 2	Constant	-.753	-.658	-.365	-.287
	type_site(1)	1.000	.000	.000	.000
	type_site(2)	1.000	.000	.000	.000
	type_site(3)	1.000	.000	.000	.000
	type_site(4)	1.000	.000	.000	.000
	authority_n(1)	.000	1.000	.556	.436
	authority_n(2)	.000	.556	1.000	.242
	authority_n(3)	.000	.436	.242	1.000
	authority_n(4)	.000	.437	.243	.190
	authority_n(5)	.000	.656	.364	.286
	authority_n(6)	.348	.304	.169	.132
	authority_n(7)	.000	1.000	.556	.436
	authority_n(8)	.000	1.000	.556	.436
	authority_n(9)	.000	.324	.180	.141
	authority_n(10)	.000	1.000	.556	.436
	authority_n(11)	.000	.324	.180	.141
	authority_n(12)	.000	1.000	.556	.436
	authority_n(13)	.000	1.000	.556	.436
	authority_n(14)	.000	1.000	.556	.436
	authority_n(15)	.000	1.000	.556	.436
	authority_n(16)	.000	1.000	.556	.436
	authority_n(17)	.000	1.000	.556	.436
	authority_n(18)	.000	1.000	.556	.436

Correlation Matrix

		authority_n(4)	authority_n(5)	authority_n(6)	authority_n(7)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
Step 2	Constant	-.287	-.431	-.462	-.658
	type_site(1)	.000	.000	.348	.000
	type_site(2)	.000	.000	.348	.000
	type_site(3)	.000	.000	.348	.000
	type_site(4)	.000	.000	.348	.000
	authority_n(1)	.437	.656	.304	1.000
	authority_n(2)	.243	.364	.169	.556
	authority_n(3)	.190	.286	.132	.436
	authority_n(4)	1.000	.287	.133	.437
	authority_n(5)	.287	1.000	.199	.656
	authority_n(6)	.133	.199	1.000	.304
	authority_n(7)	.437	.656	.304	1.000
	authority_n(8)	.437	.656	.304	1.000
	authority_n(9)	.141	.212	.098	.324
	authority_n(10)	.437	.656	.304	1.000
	authority_n(11)	.141	.212	.098	.324
	authority_n(12)	.437	.656	.304	1.000
	authority_n(13)	.437	.656	.304	1.000
	authority_n(14)	.437	.656	.304	1.000
	authority_n(15)	.437	.656	.304	1.000
	authority_n(16)	.437	.656	.304	1.000
	authority_n(17)	.437	.656	.304	1.000
	authority_n(18)	.437	.656	.304	1.000

Correlation Matrix

		authority_n(8)	authority_n(9)	authority_n (10)	authority_n (11)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
Step 2	Constant	-.658	-.213	-.658	-.213
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	authority_n(1)	1.000	.324	1.000	.324
	authority_n(2)	.556	.180	.556	.180
	authority_n(3)	.436	.141	.436	.141
	authority_n(4)	.437	.141	.437	.141
	authority_n(5)	.656	.212	.656	.212
	authority_n(6)	.304	.098	.304	.098
	authority_n(7)	1.000	.324	1.000	.324
	authority_n(8)	1.000	.324	1.000	.324
	authority_n(9)	.324	1.000	.324	.105
	authority_n(10)	1.000	.324	1.000	.324
	authority_n(11)	.324	.105	.324	1.000
	authority_n(12)	1.000	.324	1.000	.324
	authority_n(13)	1.000	.324	1.000	.324
	authority_n(14)	1.000	.324	1.000	.324
	authority_n(15)	1.000	.324	1.000	.324
	authority_n(16)	1.000	.324	1.000	.324
	authority_n(17)	1.000	.324	1.000	.324
	authority_n(18)	1.000	.324	1.000	.324

Correlation Matrix

		authority_n (12)	authority_n (13)	authority_n (14)	authority_n (15)
Step 1	Constant				
	type_site(1)				
	type_site(2)				
	type_site(3)				
	type_site(4)				
Step 2	Constant	-.658	-.658	-.658	-.658
	type_site(1)	.000	.000	.000	.000
	type_site(2)	.000	.000	.000	.000
	type_site(3)	.000	.000	.000	.000
	type_site(4)	.000	.000	.000	.000
	authority_n(1)	1.000	1.000	1.000	1.000
	authority_n(2)	.556	.556	.556	.556
	authority_n(3)	.436	.436	.436	.436
	authority_n(4)	.437	.437	.437	.437
	authority_n(5)	.656	.656	.656	.656
	authority_n(6)	.304	.304	.304	.304
	authority_n(7)	1.000	1.000	1.000	1.000
	authority_n(8)	1.000	1.000	1.000	1.000
	authority_n(9)	.324	.324	.324	.324
	authority_n(10)	1.000	1.000	1.000	1.000
	authority_n(11)	.324	.324	.324	.324
	authority_n(12)	1.000	1.000	1.000	1.000
	authority_n(13)	1.000	1.000	1.000	1.000
	authority_n(14)	1.000	1.000	1.000	1.000
	authority_n(15)	1.000	1.000	1.000	1.000
	authority_n(16)	1.000	1.000	1.000	1.000
	authority_n(17)	1.000	1.000	1.000	1.000
	authority_n(18)	1.000	1.000	1.000	1.000

Correlation Matrix

		authority_n (16)	authority_n (17)	authority_n (18)
Step 1	Constant			
	type_site(1)			
	type_site(2)			
	type_site(3)			
	type_site(4)			
Step 2	Constant	-.658	-.658	-.658
	type_site(1)	.000	.000	.000
	type_site(2)	.000	.000	.000
	type_site(3)	.000	.000	.000
	type_site(4)	.000	.000	.000
	authority_n(1)	1.000	1.000	1.000
	authority_n(2)	.556	.556	.556
	authority_n(3)	.436	.436	.436
	authority_n(4)	.437	.437	.437
	authority_n(5)	.656	.656	.656
	authority_n(6)	.304	.304	.304
	authority_n(7)	1.000	1.000	1.000
	authority_n(8)	1.000	1.000	1.000
	authority_n(9)	.324	.324	.324
	authority_n(10)	1.000	1.000	1.000
	authority_n(11)	.324	.324	.324
	authority_n(12)	1.000	1.000	1.000
	authority_n(13)	1.000	1.000	1.000
	authority_n(14)	1.000	1.000	1.000
	authority_n(15)	1.000	1.000	1.000
	authority_n(16)	1.000	1.000	1.000
	authority_n(17)	1.000	1.000	1.000
	authority_n(18)	1.000	1.000	1.000

Model if Term Removed

Variable		Model Log Likelihood	Change in -2 Log Likelihood	df	Sig. of the Change
Step 1	type_site	-118.847	42.947	4	.000
Step 2	type_site	-96.585	44.999	4	.000
	authority_n	-97.374	46.577	18	.000

Appendix B Organisations Involved in the Land Use Survey (2006-2008) in Taiwan

Survey Year	Survey Institution	Report
2006	Asia Surveying	National Land Use Inventory The 3rd Region
2006	CECI Engineering Consultants, Inc., Taiwan	National Land Use Inventory The 1st Region
2006	Industrial Technology Research Institute	National Land Use Inventory The 2nd Region
2007	CECI Engineering Consultants, Inc., Taiwan	National Land Use Inventory The 1st Region
2007	Asia Surveying	National Land Use Inventory The 2nd Region
2007	The Chinese Society of Aerial Photogrammetry	National Land Use Inventory The 3rd Region
2008	AG&G	National Land Use Inventory

Appendix C Correspondence Regarding the Issues in the Databases

Tang Yu-Ting

From: 內政部統計處 [moi1241@moi.gov.tw]
Sent: 22 December 2009 05:36
To: Tang Yu-Ting
Subject: Re: 關於都市計畫使用分區統計的一些問題

您好：
由於您所提第 1、2 點問題涉及營建單位實際劃分都市計畫區之流程與認定問題，本處正積極洽詢營建署以求較精確之說明，若有延誤您的時間，還請見諒，本處將彙整營建署之說明後再行答覆，謝謝您!

****
內政部統計處
許芷瑜
(02)23565356
****

----- Original Message -----
From: Tang Yu-Ting
To: moi9072@moi.gov.tw ; moi1104@moi.gov.tw ; moi1241@moi.gov.tw
Sent: Friday, December 18, 2009 6:30 PM
Subject: 關於都市計畫使用分區統計的一些問題

您好,

我目前於英國諾丁和大學攻讀博士,內容與都市計劃和土地利用相關.我想使用貴單位提供的都市計劃使用分區面積統計結果作一些分析並與英國目前的情況進行比較.我在貴單位的下載文件的網頁中找到許多縣市的土地分類統計,非常感謝貴單位提供的公開資訊.可是對於表單中使用的名詞定義有一些疑問,不知可否請貴單位協助釋疑.我的問題大致如下:

1.在都市計劃使用分區面積的統計中,都市發展地區之下有"公共設施用地"一項,我查詢營建署提供之營建統計名詞定義,發現該項定義之下,學校與機關用定亦屬於公共設施用地,然而都市計劃使用分區面積統計中亦含文教區與行政區.因此想請教是否公共設施用地與文教,行政區的統計有所重疊.亦或有所區別.若貴單位有完整的分區定義,使否可以提供作爲參考 ?

2.非都市發展區域下之項目有保護區與風景區兩類,查詢定義兩者都含保育的概念,不知道在實際統計上,如何區分?

3.都市發展區與非都市發展區兩者合計之區域並未達到各縣市行政區域的範圍,因此想知道如何選擇執行統計的區域,未統計的部分是否多爲偏遠地區或者林地?

以上問題,含請您不吝解答,非常感謝您的協助,

唐郁婷

This message has been checked for viruses but the contents of an attachment may still contain software viruses which could damage your computer system: you are advised to perform your own checks. Email communications with the University of Nottingham may be monitored as permitted by UK legislation.

Tang Yu-Ting

From: 內政部統計處 [moi1241@moi.gov.tw]
Sent: 24 December 2009 09:15
To: Tang Yu-Ting
Cc: 江科長欣容
Subject: Re: 關於都市計畫使用分區統計的一些問題

您好，抱歉讓您久等了，關於您所提問題一一回覆如下：

1.有關都市計劃土地使用分區面積統計表中之「都市發展地區」項下所列「文教區」及「行政區」，其與「公共設施用地」係分別依據都市計畫法**第三章「土地使用分區管制」與第四章「公共設施用地」**所劃設之統計面積，基本上二者是屬不同統計項目，「文教區」及「行政區」是在都市計畫地區範圍內，視實際發展情形所劃定之使用區，其使用係按其土地使用分區管制規定辦理，而「公共設施用地」是在都市計畫地區範圍內，視實際情況，所設置之公共設施用地，故在其統計中不會有重疊現象。

2.「保護區」與「風景區」均依據都市計畫法令所劃設之統計面積，「風景區」是在都市計畫地區範圍內土地，爲保育及開發自然風景而劃定，「保護區」是在都市計畫地區範圍內土地，爲國土保安、水土保持、維護天然資源與保護環境及生態功能而劃定，雖兩者都含保育的概念，但基於其劃設目的及管制目的不同，故在其統計中亦不會有重疊現象。

3.「都市發展區」與「非都市發展區」均屬都市計畫內土地，而縣市行政區域並非全然規劃爲都市計畫區，仍有部分非屬都市計畫區內之土地，通常稱之爲「非都市土地」（詳「區域計畫法施行細則」第 12 條），故「都市發展區」、「非都市發展區」兩者合計並不一定會等於縣市之土地總面積。

希望上述回答對您的研究有所幫助，若有其他問題，歡迎再來信詢問，謝謝您！

****
內政部統計處
許芷瑜
(02)23565356
****

> ----- Original Message -----
> **From:** Tang Yu-Ting
> **To:** moi9072@moi.gov.tw ; moi1104@moi.gov.tw ; moi1241@moi.gov.tw
> **Sent:** Friday, December 18, 2009 6:30 PM
> **Subject:** 關於都市計畫使用分區統計的一些問題
>
> 您好,
>
> 我目前於英國諾丁和大學攻讀博士,內容與都市計劃和土地利用相關.我想使用貴單位提供的都市計劃使用分區面積統計結果作一些分析並與英國目前的情況進行比較.我在貴單位的下載文件的網頁中找到許多縣市的土地分類統計,非常感謝貴單位提供的公開資訊.可是對於表單中使用的名詞定義有一些疑問,不知可否請貴單位協助釋疑.我的問題大致如下:
>
> 1.在都市計劃使用分區面積的統計中,都市發展地區之下有"公共設施用地"一項,我查詢營建署提供之營建統計名詞定義,發現該項定義之下,學校與機關用定亦屬於公共設施用地,然而都市計劃使用分區面積統計中亦含文教區與行政區.因此想請教是否公共設施用地與文教,行政區的統計有所重疊.亦或有所區別.若貴單位有完整的分區定義,使否可以提供作爲參考？
>
> 2.非都市發展區域下之項目有保護區與風景區兩類,查詢定義兩者都含保育的概念,不知道在實際統計上,如何區分?
>
> 3.都市發展區與非都市發展區兩者合計之區域並未達到各縣市行政區域的範圍,因此想知道如何選擇執行統計的區域,未統計的部分是否多爲偏遠地區或者林地?
>
> 以上問題,含請您不吝解答,非常感謝您的協助,

唐郁婷

This message has been checked for viruses but the contents of an attachment may still contain software viruses which could damage your computer system: you are advised to perform your own checks. Email communications with the University of Nottingham may be monitored as permitted by UK legislation.

Tang Yu-Ting

From: 傅秉綱 [23074@mail.nlsc.gov.tw]
Sent: 28 October 2009 03:37
To: Tang Yu-Ting
Subject: Re: 國土利用資訊取得
Attachments: 各分類細表.rar; 總表.rar

Tang Yu-Ting 提到:
傅先生,

不 好意思再次打擾您. 感謝貴單位將之前所提的資料上傳到網站. 我已順利取得需要的資料.

除了下載 95 年到 97 年的資料外,我亦參考了八十四年的國土 利用調查資料.網路上下載的資料裡,找不到台北市與高雄市的數據,想請教您兩市的數據是否應向北,高兩市的市政府索取?

再次謝謝您的協助,讓我的資料分析得以順利開始進行,

唐郁婷 敬上

From: Tang Yu-Ting
Sent: 2009/9/30 [星期三] 下午 11:52
To: 傅秉綱
Cc: tangyuting@hotmail.com
Subject: RE: 國土利用資訊取得

傅先生

非常感謝貴單位願意提供資料.以下列出我在網站上找不到資料 的縣市:

沒有第一級分類資料:
屏東縣,台東縣,澎湖縣,連江縣,新竹縣,新竹市,苗栗縣, 宜蘭縣

沒有第二級分類資料:
屏東縣,台東縣,澎湖縣,連江縣,新竹縣,新竹市,苗栗縣, 宜蘭縣,南投縣,花蓮縣,嘉義縣,嘉義市

其中 95 年第一作業區(新竹縣,新竹市,苗栗縣,宜蘭縣)的 報告中,沒有土地利用最後的結果.
95 年第二作業區(南投縣,花蓮縣,嘉義縣,嘉義市)的報告 中,沒有第二級分類的結果.
96 年第二作業區和第三作業區報告中都列出高雄縣與台南縣的 資料,不知道是否資料性質有所不同?

此外,96 年之後的報告中有附都市使用或非都市使用與土地利 用的交叉分析,不知是否有對各縣市進行交叉分析的資料?

不好意思,麻煩您提供不少資訊,如果有資料目前尚無法取得, 也請不吝告知.如果資料爲電子檔,請寄到 tangyuting@hotmail.com.可避免因爲信箱 容量不足而無法寄到的問題.

再次感謝的的協助.

唐郁婷 敬上

From: 傅秉綱 [mailto:23074@mail.nlsc.gov.tw]
Sent: 2009/9/30 [星期三] 上午 02:21
To: Tang Yu-Ting
Subject: Re: 國土利用資訊取得

Tang Yu-Ting 提到:
您好,

我目前於英國諾丁和大學攻讀博士,內容與國土利用相關.我想使用貴中心的國土利用調查的統計結果作一些分析並與英國目前的情況進行比 較.我在貴中心的下載文件的網頁中找到許多縣市的土地分類統計,不過還有一些縣市找不到, 進入國土利用資訊調查成果網頁查詢時,統計查詢的功能也一直有問題.

不知是否可以請貴中心協助提供全台灣的土地利用調查統計結果,文字檔或是 excel 檔都會很有幫助.如果沒有電子檔而需要購買文本或光 碟的話,也請不吝告知,郵資與書資應該都沒有太大的問題.我也願意提供分析結果(論文)給貴中心參考.

如果取得資料需要經過一些申請程序,也請告訴我,我可以在這邊著手準備.

感謝您的協助,

唐郁婷

This message has been checked for viruses but the contents of an attachment may still contain software viruses, which could damage your computer system: you are advised to perform your own checks. Email communications with the University of Nottingham may be monitored as permitted by UK legislation.

唐小姐：
您好，本次國土利用調查作業分 95～97 三個年度完成，實際至 98 年度始全數完成，故目前查詢系統上僅有 95 年度國土利用調查統計成果，96、97 年度資 料則在文件下載區的報告書內應該可找到不過唐小姐您有表示仍有些縣市缺漏，可否告知我們，我再將您缺少的部分補寄給您。

This message has been checked for viruses but the contents of an attachment may still contain software viruses, which could damage your computer system: you are advised to perform your own checks. Email communications with the University of Nottingham may be monitored as permitted by UK legislation.

唐小姐：
您需要的資料如附件檔案(總表及各分項細表)，請參考

Tang Yu-Ting

From: 傅秉綱 [23074@mail.nlsc.gov.tw]
Sent: 30 September 2009 02:21
To: Tang Yu-Ting
Subject: Re: 國土利用資訊取得

Tang Yu-Ting 提到:
您好,

我目前於英國諾丁和大學攻讀博士,內容與國土利用相關.我想使用貴中心的國土利用調查的統計結果作一些分析並與英國目前的情況進行比較.我在貴中心的下載 文件的網頁中找到許多縣市的土地分類統計,不過還有一些縣市找不到, 進入國土利用資訊調查成果網頁查詢時,統計查詢的功能也一直有問題.

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如果取得資料需要經過一些申請程序,也請告訴我,我可以在這邊著手準備.

感謝您的協助,

唐郁婷

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您好，本次國土利用調查作業分 95～97 三個年度完成，實際至 98 年度始全數完成，故目前查詢系統上僅有 95 年度國土利用調查統計成果，96、97 年度資 料則在文件下載區的報告書內應該可找到不過唐小姐您有表示仍有些縣市缺漏，可否告知我們，我再將您缺少的部分補寄給您。

Appendix D The Interview Content and Translations

訪談紀錄 **(Meeting Record)**

訪談時間(Time of the Meeting)：

98 年二月六日下午二時至三時四十分 (February, 06, 2009 from 14:00 to 15:40)

訪談地點(Location)：

瑞昶科技股份有限公司台北辦公室(Apollo Technology Co., Ltd, Taipei Office)

訪談對象(Interviewee)：

瑞昶陳慎德副總經理 Vice Executive Manager Chen, Shen-De, P.E.

訪談方式(Interview Format)：面談 (Face to Face)

唐：我先簡單敘述本次訪談的目的主要爲了解目前台灣褐地再利用與都市計劃是否有配套，以及目前執行情況。

目前的研究發想主要是比較英國與台灣在褐地再開發依法規所衍伸程序的異同。英國的褐地整治主要經由兩個管道執行，第一種管道爲目前正在利用但是經檢測或舉報發現污染情事，則該筆土地應經由 Environment Protection Act Part II A 相關規範進行整治(該法規含有鼓勵志願整治之機制以降低整治成本的設計)；第二種管道則爲已計劃重新開發之土地發現污染情事，則須於申請重新開發的過程中，將整治計畫併入，其目的在尋求節省開發成本之整治方法與土地使用設計。(根據英國 Planning Policy Statement 23 (PPS23)之揭示，此類整治的要求應以符合 Part IIA 爲最低標準。)所以我想知道台灣在褐地開發領域中都市計劃與土壤地下水污染整治是否已有相互配合之機制。

以下的問題便是以此爲考量所設計出來的。

TANG: Allow me to describe the purpose of this interview first. I hope to understand current brownfield recycle practice of Taiwan and whether it has been integrated into urban planning policy of Taiwan.

I am interested in the differences and similarities of brownfield recycling procedures in Taiwan and United Kingdom. The brownfield remediation in United

Kingdom was conducted through two different channels. The first channel is via the contaminated land regulations documented in Part IIA of the Environmental Protection Act 1990, when the contamination is discovered on the land that was currently in used. The regulation contains the design of encouraging voluntary action by providing incentive of cleaning up in a cost-effective way. The second channel was through redevelopment process. If land contamination is discovered during the redeveloping process, the remediation plan should be incorporated into the redeveloping process to reduce potential cost of remediation by land use design. (According to Planning Policy Statement 23 (PPS23), this type of remediation should at least fulfill the requirement of Part IIA) Therefore, I would like to know whether there are similar mechanism to link the soil and groundwater remediation and city planning in Taiwan. The questions I ask will surround these considerations.

陳：在褐地再開發的程序還是應該從都計法相關架構來看。土污法雖然有第十七條作爲執行的法源，與環境影響評估與土壤調查等等規定。但是除整治之外，環境保護相關權責單位並無權參與在開發的決策，且目前相關行政人員的承擔不足，原業務之執行也產生困難。

舉例來說，土壤地下水污染整治法施行細則第八條有一限期改善的規範，此一規範是針對污染情事較不嚴重的場址給予不公告但是限期改善之優惠，主要是協助污染行爲人避免污染廠址公告後所面臨之禁止轉讓造成資金籌措等困難。然而，就算該筆土地以限期改善方式進行整治，在土地開發過程中需要進行環境影響評估，執行環評者卻不願再限期改善尚未完成前，先執行評估，因而造成開發程序的延宕。這是因爲執行環境影響評估者不願承擔限期改善之不確定性。土地品質應是土地開發的必要限制條件，但應可以使用條件交換的方式來取得開發許可。桃園 RCA 場址先前原欲以此方式進行開發，該場址之環評亦以條件交換取得開發許可，但是建照先不核發。可惜後來建商倒閉，所以整治的責任還是落在原來污染行爲人的身上，此開發案也就此擱置。因此目前台灣並沒有以條件交換方式取得開發許可並順利執行開發之案例。可見法

規是允許此類開發，但是在台灣目前實際執行上，因公共行政的保守性而鮮有人嘗試這條道路。土地開發取得融資的要件爲開發許可的取得。

CHENG: Brownfield recycle procedure should be viewed under the structure of city planning regulations. Although there are legal base addressed in the Soil and Groundwater Pollution Remediation Act (article 17), environmental impact assessment regulations and soil survey guidelines, the environmental protection authorities have no right to participate the decision making in city planning unless it involved remediation. Moreover, the personnel in environmental protection administration do not have sense of responsibility to make such decision. This attitude even affects their practice on oversight of the pollution remediation process.

For example, Article 8 in Soil and Groundwater Pollution Remediation Act Enforcement Rules allows polluter or user to adopt appropriate measures within a limited time without publically announcing the contaminated area as a control site. The purpose of this rule is to prevent adding financial burden to the polluter or user because announcing the site as a control site publically would also prevent them making land transfer or using the land as asset to borrow money from banks. However, even a site is allowed to be remediated under this rule, the redevelopment processes will still be hindered at the stage of environmental impact assessment. The assessors will not conduct the assessment before the remediation is done because they do not want to add uncertainty of remediation outcome into their assessment.

Soil quality is a necessary criteria of land development, but there should be room for negotiating conditional permission for development. The RCA site in Tao-Yuan county was considered to be redeveloped under this condition. The

environmental impact assessment was passed and development permit was issued with some conditions. However, the building permit was not issued at that time. It is unfortunate that the construction company was bankrupted. Therefore, the responsibility fell back to the shoulder of polluter. This redevelopment project was to adjourn indefinitely. Since then, there has not been any conditional permit issued and development project operated. From the case of RCA, we know that there is a regulatory channel allowing redevelopment under such circumstances (pollutants presented on site). The hindrance of redevelopment is the actual practice. The conservative attitude in public administration prevents the redevelopment from happening. Obtaining development permit is necessary for land development.

唐：目前污染的土地分爲兩種，一爲偏遠區域，一爲都市內部，開發商是否對特定的哪一種較有興趣？

TANG: Would developer be more interested in developing the brownfield land within the urban area or rural un-developed area?

目前褐地再開發的重點多爲位於都市的土地，因爲土地的價值較高，尤其是都會週邊過去的的工業用地因爲大眾捷運系統的擴展(例如新莊)，工業用途需求不再，而成爲開發的重點。對於此類的開發，政府的態度也比較正面。

CHENG: The brownfield redevelopment currently focuses on the urban area because of the higher value of these lands. Especially, the industrial lands at outskirt of urban area were no longer needed (because of the changes of business type), but the extending MRT (Mass Rapid Transit) system made these lands

valuable for commercial and residential purpose. Therefore, these areas are the land of focus of redevelopment. The attitude of government to these projects are rather positive.

唐：此處所指之政府是地方還是中央？

TANG: The government you referred is central government or local government?

目前的開發案分爲兩類，一種爲專案核定，其餘者多經由內政部都委會。專案核定者要看該筆污染土地與誰相關，不過目前也只有 RCA 一個案例。經由內政部都委會執行者，與汙染相關的部份，則爲地方審查，中央列席。列席者可以表示意見，但是並不一定是最後決策的基準。

Currently, in Taiwan, two different types of development: one is through ratified special project; another is through the review process of city planning committee of construction and planning agency, ministry of interior (a central government department). Majority of the development was through the latter procedure. In this procedure, the contaminated land related issues in these projects will be reviewed by local authority, but the government officials from central government should be involved in the meeting and may express their opinion. However, the final decision may not be consistent with the opinion. In the case of ratified special project, whether the authority is central or local government depends on whom the contaminated land belongs to. However, currently, there is only one unsuccessful case, the RCA site.

唐：請您談談目前污染土地再開發的程序。

TANG: Would you please further explain the procedure of brownfield (in Taiwan)?

依照目前的架構，污染的處理與開發應可平行進行，但是兩者有交叉節點。其一爲都市計畫工業區變更審議規範，該規範中要求申請變更時，需附該筆土地之土壤污染調查資料與處理方法。另一個節點則爲都市計劃於都委會審查程序之前，需要先附上環評資料(或稱土地品質徵信資料)。第一階段環評資料稱爲環境影響說明書，並舉行公聽會，如果沒有問題，則此步驟便完成，但若是在此階段發現其他問題，則需進一步進行評估，並提出環境影響評估報告書交都委會指派小組審查。最後提送大會決議(大會委員較多，並設有陳情的機制)。

Based on the current (regulatory) structure, the treatment of contamination and the redevelopment should be able to proceed in a parallel way. The two procedures, however, have some "cross-points". One is addressed in the "Evaluation of Modification to Urban Planning Industrial District". In this regulation, when applying for land use modification, the applicant should attach the soil investigation data and soil treatment method with the application. The second cross-point is upon reviewing environmental impact assessment data (or soil quality verification data) required to be submitted before applying for development. The first stage environmental impact assessment data is named "Environmental Impact Statement". In this stage of assessment, a public hearing will be held. If no one is against the project, the assessment process is completed. However, if some doubt is brought up, then a further assessment is required. A more detailed environmental impact assessment should be submitted to the working group appointed by city planning committee for review. The result of review will be presented to a bigger committee for final decision (This committee has more members. There is also a appeal mechanism during the decision making process)

唐：都市內的污染土地數量是否有開發的價值?如果都市中待開發但未受污染的土地數量足夠，是否污染土地開發價值便降低？

TANG: How about the value of the contaminated land within the urban area? By that I mean if the quantity of uncontaminated land within the area is enough, would the value of contaminated land development decreased.

這個問題要是都市開發是否有大尺度的觀念與規劃而定。都市規劃是否有通盤檢討並依此規劃土地管制的形式。(目前台灣的都市似乎欠缺此項。)
由土地擁有人的觀點來看，除非土地污染嚴重，擁有土地的私人仍多希望褐地可以重新開發。至於土地發生污染所連帶產生的負面觀感，是政府與建商共同努力希望改善的。其實一般民眾對此並不敏感，除非特定的污染事件造成公共衛生的憂慮。

CHENG: The answer to the problem depends on whether a big scale city planning presents. Whether the land use control is under a extensively reviewed/revised city planning. (Currently, Taiwan seems not having such extensive planning.)
From property owner point of view, unless the degree of pollution is not manageable, they always want their land to be redeveloped. As for the negative image resulted from contaminated land, government and developers both hope to improve it. In fact, the general public is not so sensitive to this issue except in some specific cases where the contamination has resulted in public health impact.

唐：那們其他機構的態度呢？例如銀行對於以風險評估所計算出來的整治基準接受度爲何？

TANG: How about attitude of other (relevant) institutes?

其它機構則以法規認定爲認定標準。事實上銀行對於風險評估並不了解，他們所在意的是政府的認證(保證)。而以風險評估所訂之整治標準，會附帶對建地產生使用限制，反而較不爲當地所接受。以中石化的案例，去年五月，原希望以現地封存的方式進行整治，但不爲審查委員會所接受。以風險管理代替積極整治進行褐地復育的概念，在台灣還需要一段時間。

目前的大環境氣氛對於整治所造成的社會成本耗費體認尚不足，此外，懲罰污染者的心態也比較濃厚。雖然法令不完全以懲罰爲主要概念，但是審查人的心態卻是很重要。比如說，對於重金屬的汙染可以採取淋洗法來降低土壤中的金屬濃度，或是使用挖除的辦法。對於民間執行的整治要求似乎傾向於使用最好最貴的發法，卻不考量成本與效益的問題。而如果是政府執行的整治，卻又採行成本較低的翻土法。

最近針對土污法施行細則第八條，土基會擬定了相關的行政公文，造成對限期改善認定的縮限。對於企業來說，土地是很有用的抵押品，若不公告爲污染場址，對企業較爲有利。認定的縮限，對企業來說是較大的打擊。

而對於相關的土地轉移所需之檢測，目前台灣的銀行並不懂得，相關人員多半以網路上公告場址資訊作爲判斷的標準。對於此議題比較清楚者則爲土地仲介或是買賣雙方。

CHENG: Most of these institutes using the regulation as their standard of judgment. Banks usually do not understand the content of risk assessment. What they really care about is the guarantee from the government. Using the remediation standard established by risk assessment to conduct remediation will bring the limitation of land use. This might not be acceptable to the local land owner. Using the case of China Petrochemical Development Cooperation as an example, the method of containment was proposed but was rejected by the local review committee. It still takes some time to nurture the concept of using risk management instead of actively using engineer method for remediation in Taiwan. The general public (in Taiwan) has not recognized the huge social cost a remediation may result in. Moreover, the attitude of the polluter should be

punished are universally exists. Although the design of the regulations does not emphasize on punishment, the mind-set of reviewer is really the key. For example, the heavy metal contamination can be remediated using soil washing or excavation. The authority would tend to ask the private responsible party to use the best and more expensive method without considering the cost-effectiveness of the private sector. However, if the remediation is conducted by government, the less expensive method, turnover dilution, is allowed.

Recently the soil and groundwater remediation board prepared the administrative instruction specific to the Soil and Groundwater Pollution Remediation Enforcement Rule Article 8 to limit the site that could apply this rule. To business sector, land is a very useful collateral security. If the site is not officially announced, it would be more convenient for business owner (to obtain financial aid to conduct remediation). The new addition of the limitation will impact business sector a lot.

The banks in Taiwan do not understand the content of soil investigation during the land transfer. The staffs in the bank, upon approving a loan, usually only go to the government web site to view whether there is any official announcement regarding the contamination on site. The agent, seller or buyer usually knows more about the issues of contaminated land.

唐：所以台灣與美國銀行不同？美國的銀行視廠址調查爲土地貸款的重要參考資料，常常僱用顧問公司執行相關的調查以求公正。

TANG: So the banks in Taiwan are quite different from the bank in US? The bank in US view the soil investigation report as a very important information for granting the loan. They often hire consultants to conduct the investigation to

prevent the conflict of interests.

的確，台灣的銀行對於 Site Auditing 的機制並不熟悉。如果 Auditing 程序可以成爲銀行貸款規費的一部份，應該有助於褐地的重新開發。然而由誰 Audit 才專業公正，又會發生問題。官方與學界雖有資源但是各有私心，而學校的老師雖有產學合作，但是實務經驗並不豐富。

CHENG: Indeed, banks in Taiwan are not familiar with the mechanism of site auditing. If auditing process become a required action within the loan approving process and bank charges fee for it, it should be very helpful for brownfield regeneration. However, to determine who is the unbiased auditor may become another controversy. The government official and the academy may have resources to do it but they have their own interests. Additionally, the professors in the school, although cooperating with industry to some degree, still do not have enough practical experiences.

唐：目前有公私雙方合作的褐地開發個案嗎？

TANG: In Taiwan, is there any brownfield redevelopment done by private and public cooperation?

目前沒有正式進行的案例，但可以注意關渡平原農地砷污染的案例。目前該區域尚未公告列管但是已經停耕。判斷污染源爲早期礦區所引來的灌溉水，污染行爲人無從認定。
台北市政府目前對關渡平原的開發希望能有整體規劃，例如解除早期對此區域洪水平原區的管制，或是思考如何處理無主的砷污染問題。不過由於該區多爲私有地，國有地只是少部份，因此未來的開發勢必需要公家機關與私人土地擁有人相互合作。

Currently, there is no case officially conducted. However, you may pay attention to the case of arsenic pollution on the agriculture land in Quandu Plain. This area has not been officially announced but the agriculture practice has been stopped. It is believed the source of contamination is the irrigation water from the abandoned mining area. The responsible party cannot be found.
Taipei city government is hoping the Quandu Plain may be developed with a large scale consideration. For example, how to lift the control of the flood plan area designated in early years, and how to deal with these arsenic contamination without responsible party. However, the lands in this area are mostly private owned; government only owns few lands. The redevelopment must require cooperation between the government and private land owner.

唐：那麼高雄港的開發案不屬於公私合作的案例？

TANG: So the development of Kaohsiung harbor should not be considered private and public cooperation?

高雄港的地主多爲國營事業，開發案的主要問題屬於污染土地的轉移，並沒有公私合作的性質。

CHENG: The land owners of the Kaohsiung harbor are mostly government owned business. The major problem of the land development is contaminated land transaction. Therefore, no private and public cooperation may exist.

唐：開發商有沒有對受到特定的污染物污染的土地有興趣？

TANG: Would developers specifically interested in the contaminated land polluted

by certain pollutants?

開發商對污染物種類並沒有概念，他們對於這種問題傾向於請教顧問或是根據土地的估價來判斷。

至於我個人則認爲高濃度集中於一區的污染型態開發的可行性較高(土壤污染優於地下水污染)，而有機污染物又較無機物的污染亦於處理。

CHENG: Developer does not understand the issues with contaminants. Regarding whether pollution would affect the development, they rely on the opinion of consultant or land valuation.

As for myself, I would prefer handle the pollution with high concentration but concentrated in a small area. Soil contamination would be easier to deal with than the groundwater contamination and organic pollutants may be easier to handle than inorganic compound.