

	Var1	Var2	Var3	Var4	Var5	Var6	Var7	Var8
brnbat	2	3	1	1	3	3	3	3
mole	3	2	1	0	3	3	3	3
silbat	2	3	1	1	2	3	3	3
pigbat	2	3	1	1	2	2	3	3
houbat	2	3	1	1	1	2	3	3
redbat	1	3	1	1	1	2	3	3
pika	2	1	0	0	2	2	3	3
rabbit	2	1	0	0	3	2	3	3
beaver	1	1	0	0	2	1	3	3
grndhog	1	1	0	0	2	1	3	3
grsquir	1	1	0	0	1	1	3	3
houmouse	1	1	0	0	0	0	3	3
porcupin	1	1	0	0	1	1	3	3
wolf	3	3	1	1	4	4	2	3
bear	3	3	1	1	4	4	2	3
raccoon	3	3	1	1	4	4	3	2
marten	3	3	1	1	4	4	1	2
weasel	3	3	1	1	3	3	1	2
wolverin	3	3	1	1	4	4	1	2
badger	3	3	1	1	3	3	1	2
rivott	3	3	1	1	4	3	1	2
seaott	3	2	1	1	3	3	1	2
jaguar	3	3	1	1	3	2	1	1
cougar	3	3	1	1	3	2	1	1
furseal	3	2	1	1	4	4	1	1
sealion	3	2	1	1	4	4	1	1
grseal	3	2	1	1	3	3	2	2
eleseal	2	1	1	1	4	4	1	1
reindeer	0	4	1	0	3	3	3	3
elk	0	4	1	0	3	3	3	3
deer	0	4	0	0	3	3	3	3
moose	0	4	0	0	3	3	3	3

překlad	poznámka
Netopýr hnědavý	Myotis lucifugus
Krtek	
Netopýr stříbřitý	Lasionycteris noctivagans
Netopýr skvrnitý	Brachyphylla cavernarum Pig-faced bat
Netopýr hnědý	Eptesicus fuscus
Netopýr rudohnědý	Lasiurus borealis
Pišťucha	Ochotona
Králík	
Bobr	
Svišť	Marmota
Veverka	Sciurus griseus
Myš domácí	Mus musculus
Dikobraz	
Vlk	
Medvěd	
Mýval	
Kuna	
Lasice	
Rosomák	
Jezevec	
Vydra severoamerická	
Vydra mořská	Enhydra lutris
Jaguár americký	Panthera onca
Puma americká	Puma concolor
Lachtan antarktický	Arctocephalus gazella
Lachtan kalifornský	Zalophus californianus
Tuleň kuželozubý	Halichoerus grypus Grey seal
Rypouš	Mirounga
Sob	Rangifer tarandus
Wapiti	Cervus canadensis Wapiti
Jelen	
Los	Alces alces

Var1	řezáky
Var2	
Var3	špičáky
Var4	
Var5	třenové zu
Var6	
Var7	stoličky
Var8	

incisors	horná čelist
<b>I</b>	dolná čelist
canines	horná čelist
<b>C</b>	dolná čelist
premolars	horná čelist
<b>P</b>	dolná čelist
molars	horná čelist
<b>M</b>	dolná čelist

	incisivi <b>I</b>		canini <b>C</b>		praemol <b>P</b>		molares <b>M</b>	
	horná če	dolná če	horná če	dolná če	horná če	dolná če	horná če	dolná če
	<b>řezáky</b>		<b>špičáky</b>		<b>třenové zuby</b>		<b>stoličky</b>	
	<b>I hč</b>	<b>I dč</b>	<b>C hč</b>	<b>C dč</b>	<b>P hč</b>	<b>P dč</b>	<b>M hč</b>	<b>M dč</b>
Krtek	3	2	1	0	3	3	3	3
Netopýr hnědavý	2	3	1	1	3	3	3	3
Netopýr stříbřitý	2	3	1	1	2	3	3	3
Netopýr skvrnitý	2	3	1	1	2	2	3	3
Netopýr hnědý	2	3	1	1	1	2	3	3
Netopýr rudohnědý	1	3	1	1	1	2	3	3
Pišťucha	2	1	0	0	2	2	3	3
Králík	2	1	0	0	3	2	3	3
Bobr	1	1	0	0	2	1	3	3
Svišť	1	1	0	0	2	1	3	3
Veverka	1	1	0	0	1	1	3	3
Myš domácí	1	1	0	0	0	0	3	3
Dikobraz	1	1	0	0	1	1	3	3
Vlk	3	3	1	1	4	4	2	3
Medvěd	3	3	1	1	4	4	2	3
Mýval	3	3	1	1	4	4	3	2
Kuna	3	3	1	1	4	4	1	2
Lasice	3	3	1	1	3	3	1	2
Rosomák	3	3	1	1	4	4	1	2
Jezevec	3	3	1	1	3	3	1	2
Vydra severoamerická	3	3	1	1	4	3	1	2
Vydra mořská	3	2	1	1	3	3	1	2
Jaguár americký	3	3	1	1	3	2	1	1
Puma americká	3	3	1	1	3	2	1	1
Lachtan antarktický	3	2	1	1	4	4	1	1
Lachtan kalifornský	3	2	1	1	4	4	1	1
Tuleň kuželozubý	3	2	1	1	3	3	2	2
Rypouš	2	1	1	1	4	4	1	1
Sob	0	4	1	0	3	3	3	3
Wapiti	0	4	1	0	3	3	3	3
Jelen	0	4	0	0	3	3	3	3
Los	0	4	0	0	3	3	3	3



list

	Shluk	Shluk	Shluk	Shluk	Shluk	Shluk	Shluk	Shluk
	k = 2	k = 3	k = 4	k = 5	k = 6	k = 7	k = 8	k = 9
Krtek	1	2	1	1	3	1	2	1
Netopýr hnědavý	1	3	1	1	3	1	4	1
Netopýr stříbřitý	1	3	1	1	5	4	4	1
Netopýr skvrnitý	1	3	1	1	5	4	4	1
Netopýr hnědý	1	3	1	1	5	4	4	1
Netopýr rudohnědý	1	3	1	1	5	4	4	1
Pišťucha	1	1	2	3	1	2	2	2
Králík	1	1	2	3	1	2	2	2
Bobr	1	1	2	3	1	3	3	2
Svišť	1	1	2	3	1	3	3	2
Veverka	1	1	2	3	1	3	3	5
Myš domácí	1	1	2	3	1	3	3	5
Dikobraz	1	1	2	3	1	3	3	5
Vlk	2	2	3	4	3	1	1	4
Medvěd	2	2	3	4	3	1	1	4
Mýval	2	2	3	4	3	1	1	4
Kuna	2	2	3	4	2	5	1	4
Lasice	2	2	3	2	2	5	5	3
Rosomák	2	2	3	4	2	5	1	4
Jezevec	2	2	3	2	2	5	5	3
Vydra severoamerická	2	2	3	2	2	5	5	3
Vydra mořská	2	2	3	2	2	5	5	3
Jaguár americký	2	2	3	2	4	5	5	6
Puma americká	2	2	3	2	4	5	5	6
Lachtan antarktický	2	2	3	4	2	5	8	7
Lachtan kalifornský	2	2	3	4	2	5	8	7
Tuleň kuželozubý	2	2	3	2	2	5	5	3
Rypouš	2	2	3	4	2	5	8	7
Sob	1	3	4	5	6	6	6	8
Wapiti	1	3	4	5	6	6	6	8
Jelen	1	3	4	5	6	7	7	9
Los	1	3	4	5	6	7	7	9



	k = 2	k = 3	k = 4	k = 5	k = 6	k = 7
	Vzdálenos t	Vzdálenos t	Vzdálenos t	Vzdálenos t	Vzdálenos t	Vzdálenos t
Krtek	0.82	0.82	0.67	0.67	0.53	0.53
Netopýr hn	0.67	0.50	0.40	0.40	0.45	0.45
Netopýr stí	0.58	0.46	0.20	0.20	0.33	0.33
Netopýr sk	0.47	0.50	0.20	0.20	0.22	0.22
Netopýr hn	0.60	0.68	0.40	0.40	0.22	0.22
Netopýr ru	0.55	0.58	0.54	0.54	0.33	0.33
Pišťucha	0.58	0.42	0.42	0.42	0.42	0.18
Králik	0.67	0.64	0.64	0.64	0.64	0.18
Bobr	0.64	0.19	0.19	0.19	0.19	0.29
Svišť	0.64	0.19	0.19	0.19	0.19	0.29
Veverka	0.74	0.23	0.23	0.23	0.23	0.10
Myš domá	1.15	0.69	0.69	0.69	0.69	0.51
Dikobraz	0.74	0.23	0.23	0.23	0.23	0.10
Vlk	0.57	0.54	0.57	0.47	0.32	0.32
Medvěd	0.57	0.54	0.57	0.47	0.32	0.32
Mýval	0.66	0.64	0.66	0.56	0.39	0.39
Kuna	0.32	0.35	0.32	0.26	0.33	0.40
Lasice	0.32	0.33	0.32	0.19	0.37	0.31
Rosomák	0.32	0.35	0.32	0.26	0.33	0.40
Jezevec	0.32	0.33	0.32	0.19	0.37	0.31
Vydra seve	0.28	0.30	0.28	0.35	0.33	0.31
Vydra mořs	0.36	0.35	0.36	0.30	0.33	0.31
Jaguár ame	0.64	0.65	0.64	0.38	0.00	0.55
Puma ame	0.64	0.65	0.64	0.38	0.00	0.55
Lachtan an	0.45	0.48	0.45	0.40	0.37	0.42
Lachtan kal	0.45	0.48	0.45	0.40	0.37	0.42
Tuleň kužel	0.41	0.37	0.41	0.42	0.46	0.44
Rypouš	0.77	0.78	0.77	0.71	0.68	0.73
Sob	0.89	0.53	0.18	0.18	0.18	0.00
Wapiti	0.89	0.53	0.18	0.18	0.18	0.00
Jelen	0.89	0.59	0.18	0.18	0.18	0.00
Los	0.89	0.59	0.18	0.18	0.18	0.00





k = 8      k = 9

Vzdálenos t	Vzdálenos t
----------------	----------------

0.49	0.67
0.48	0.40
0.23	0.20
0.17	0.20
0.32	0.40
0.42	0.54
0.33	0.27
0.26	0.36
0.29	0.27
0.29	0.27
0.10	0.17
0.51	0.33
0.10	0.17
0.22	0.22
0.22	0.22
0.45	0.45
0.32	0.32
0.19	0.17
0.32	0.32
0.19	0.17
0.35	0.32
0.30	0.23
0.38	0.00
0.38	0.00
0.17	0.17
0.17	0.17
0.42	0.36
0.33	0.33
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

Vzdálenost mezi shluky

k=2

Euclidean Distances between Clusters (Sešit1)

Cluster Number	No. 1	No. 2
No. 1	0.000000	1.514335
No. 2	1.230583	0.000000

k=3

Cluster Number	No. 1	No. 2	No. 3
No. 1	0.000000	2.462821	1.234127
No. 2	1.569338	0.000000	1.305827
No. 3	1.110913	1.142728	0.000000

k=4

Euclidean Distances between Clusters (Sešit1)

Cluster Number	No. 1	No. 2	No. 3	No. 4
No. 1	0.000000	0.948909	1.067639	0.944445
No. 2	0.974120	0.000000	2.587778	2.049107
No. 3	1.033266	1.608657	0.000000	2.069028
No. 4	0.971825	1.431470	1.438411	0.000000

k=5

Euclidean Distances between Clusters (Sešit1)

Cluster Number	No. 1	No. 2	No. 3	No. 4
No. 1	0.000000	0.937004	0.948909	1.333767
No. 2	0.967990	0.000000	2.239796	0.325335
No. 3	0.974120	1.496595	0.000000	3.044085
No. 4	1.154889	0.570381	1.744731	0.000000
No. 5	0.971825	1.462325	1.431470	1.469747

k=6

Euclidean Distances between Clusters (Sešit1)

Cluster Number	No. 1	No. 2	No. 3	No. 4
No. 1	0.000000	2.692143	2.190714	2.464286
No. 2	1.640775	0.000000	0.460000	0.435000
No. 3	1.480106	0.678233	0.000000	1.105000
No. 4	1.569804	0.659545	1.051190	0.000000
No. 5	0.964782	1.272547	0.975641	1.218349

No. 6	1.431470	1.505407	1.177391	1.590990
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k=7

Cluster Number	Euclidean Distances between Clusters (Sešit1)			
	No. 1	No. 2	No. 3	No. 4
No. 1	0.000000	1.186250	2.740000	0.951875
No. 2	1.089151	0.000000	0.516250	0.890625
No. 3	1.655295	0.718505	0.000000	1.094375
No. 4	0.975641	0.943729	1.046124	0.000000
No. 5	0.712098	1.290994	1.764110	1.239540
No. 6	1.164045	1.380670	1.544345	0.992157
No. 7	1.216552	1.334635	1.503330	1.053269

k=8

Cluster Number	Euclidean Distances between Clusters (Sešit1)			
	No. 1	No. 2	No. 3	No. 4
No. 1	0.000000	1.377778	3.735000	1.330000
No. 2	1.173788	0.000000	0.812778	0.657778
No. 3	1.932615	0.901542	0.000000	1.195000
No. 4	1.153256	0.811035	1.093161	0.000000
No. 5	0.649175	1.076443	1.638597	1.032334
No. 6	1.360147	1.301708	1.544345	0.938083
No. 7	1.405347	1.285604	1.503330	1.002497
No. 8	0.749074	1.333333	1.978074	1.497034

k=9

Cluster Number	Euclidean Distances between Clusters (Sešit1)			
	No. 1	No. 2	No. 3	No. 4
No. 1	0.000000	0.796007	0.876528	1.138194
No. 2	0.892192	0.000000	1.775312	2.420313
No. 3	0.936231	1.332409	0.000000	0.290000
No. 4	1.066862	1.555735	0.538517	0.000000
No. 5	1.182922	0.656829	1.755784	2.062226
No. 6	1.134987	1.460415	0.529150	0.974679
No. 7	1.417892	1.624733	0.676593	0.749074
No. 8	0.955612	1.372156	1.424781	1.360147
No. 9	1.018918	1.325825	1.467992	1.405347

Distances below diagonal Squared distances above diagonal

)  Distance:

No. 5
-------

0.944445

2.138393

2.049107

2.160156

0.000000

)  Distances below diagonal

No. 5
-------

No. 6
-------

0.930804 2.049107

1.619375 2.266250

0.951875 1.386250

1.484375 2.531250

0.000000 1.015625

1.007782 0.000000

)  Distances below diagonal  Squared

No. 5	No. 6	No. 7
0.507083	1.355000	1.480000
1.666667	1.906250	1.781250
3.112083	2.385000	2.260000
1.536458	0.984375	1.109375
0.000000	2.218750	2.343750
1.489547	0.000000	0.125000
1.530931	0.353553	0.000000

)  Distances below diagonal  Squared distanc

No. 5	No. 6	No. 7	No. 8
0.421429	1.850000	1.975000	0.561111
1.158730	1.694444	1.652778	1.777778
2.685000	2.385000	2.260000	3.912778
1.065714	0.880000	1.005000	2.241111
0.000000	2.107143	2.232143	0.515873
1.451600	0.000000	0.125000	2.944444
1.494036	0.353553	0.000000	3.069444
0.718243	1.715938	1.751983	0.000000

)  Distances below diagonal  Squared distances above di

No. 5	No. 6	No. 7	No. 8	No. 9
1.399306	1.288194	2.010417	0.913195	1.038194
0.431424	2.132813	2.639757	1.882813	1.757813
3.082778	0.280000	0.457778	2.030000	2.155000
4.252778	0.950000	0.561111	1.850000	1.975000
0.000000	3.152778	4.430555	2.736111	2.611111
1.775606	0.000000	0.861111	2.500000	2.625000
2.104888	0.927961	0.000000	2.944444	3.069444
1.654119	1.581139	1.715938	0.000000	0.125000
1.615893	1.620185	1.751983	0.353553	0.000000

**Príklad TWINSPAN**

Analýza byla provedena v programu WinTWINS (TWINSPAN :

\*\*\*\*\* TWINSPAN for Windows 2.3 \*\*\*\*\*

\* Following analysis log is described in more detail \*

\* in the user's guide, located in the following file:\*

\* C:\Program Files (x86)\WinTWINS\userguid.pdf

\*\*\*\*\*

TWINSPAN - Mark O.Hill & modified by C.J.F. ter Braak and H.J.B. Birks and Petr Smilauer

Version 2.3- August 2005

This version of TWINSPAN allows you to specify WEIGHTS for samples and species at the input device

Number of cut levels: 5

Cut levels:  
0.00 2.00 5.00 10.00 20.00

Reading data matrix from device 5

drurove data pre PCA - percentualne vyjadrenie; data Marta Illyova plankton

Input data file :

Title : drurove data pre PCA - percentualne vyjadrenie; data Marta Illyova plankton

Format : (I5,1X,24F3.0,2(/6X,(24F3.0)))

Number of samples 18

Number of species 63

Length of raw data array 824

3	9000	7	29000	15	41000	27	12000	63	9000	-1	3
12000	7	4000	8	1000	13	1000	15	7000	25	2000	26
2000	32	1000	34	5000	35	2000	38	17000	40	2000	43
1000	44	15000	45	2000	47	4000	48	1000	50	2000	54
5000	57	10000	59	1000	63	4000	-1	1	1000	3	26000
5	1000	6	1000	7	1000	8	3000	13	1000	14	1000
15	10000	25	1000	26	10000	27	1000	29	1000	32	1000
34	9000	35	1000	36	1000	38	8000	40	1000	43	2000
44	2000	45	2000	49	1000	50	1000	51	1000	54	2000
57	1000	59	5000	62	1000	63	3000	-1	3	12000	15
.....											
19	3000	20	2000	21	3000	26	2000	27	4000	30	1000
35	5000	36	1000	38	29000	40	1000	44	1000	47	1000
50	2000	51	1000	53	1000	55	1000	57	2000	59	1000
60	1000	61	1000	62	1000	63	29000	-1	1	2000	2
3000	3	1000	5	1000	7	1000	8	1000	9	1000	11
1000	15	15000	16	1000	18	1000	19	5000	21	3000	24
1000	25	1000	26	1000	27	1000	30	1000	31	1000	32
1000	35	1000	36	1000	38	36000	39	1000	44	1000	45

1000 47 1000 50 8000 51 1000 53 1000 56 1000 57  
1000 58 1000 59 1000 60 1000 62 1000 63 19000 -1

SPECIES NAMES

1 ACRH AR | 2 ACRN EG | 3 ALOA FF | 4 ALOC OS | 5 ALOG UTT | 6 ALOP RO | 7 ALOQ UA |  
9 ALOE XS | 10 ALOE XI | 11 ALON AN | 12 ANCH EMA | 13 BOSC OR | 14 BOSL NS | 15 BOLL O  
17 CERL AT | 18 CERM EG | 19 CERP ULL | 20 CERQ UA | 21 CERR ET | 22 CERR ET | 23 CERS ET  
25 DAPC UC | 26 DAPG AL | 27 DAPL ON | 28 DAPP AR | 29 DAPP UL | 30 DIAB RA | 31 DIAM C  
33 DISH AM | 34 DISR OS | 35 EURL AM | 36 GRAT EST | 37 CHYD OVA | 38 CHYD SPH | 39 ILYA C  
41 LATR EC | 42 LEPK IN | 43 LEYL EY | 44 MACH IR | 45 MACL AT | 46 MOIB RA | 47 MOIM IC  
49 MOND IS | 50 PLEA DU | 51 PLED EN | 52 PLEL AE | 53 PERT RU | 54 PLEU NC | 55 POLP ED  
57 SCAM UC | 58 SCAR AM | 59 SIDC RY | 60 SIMC ON | 61 SIME XS | 62 SIMS ERR | 63 SIMV ET

SAMPLE NAMES

1 D1 | 2 D2 | 3 D3 | 4 G1 | 5 G2 | 6 G3 | 7 B1  
8 B2 | 9 B3 | 10 I1 | 11 I2 | 12 I3 | 13 K1 | 14 K2  
15 K3 | 16 S1 | 17 S2 | 18 S3 |

Omitted samples:

End of list of omissions

Omitted species:

End of list of omissions

Minimum group size for division: 5  
Maximum number of indicators per division: 7  
Maximum number of species in final tabulation: 100  
Maximum level of divisions: 6  
Machine readable copy is wanted  
Weights for levels of pseudospecies:  
1.0000 1.0000 1.0000 1.0000 1.0000  
Indicator potentials for cut levels:  
1 1 1 1 1  
Species omitted from the list of potential indicators  
End of list of omissions

Length of data array after defining pseudospecies 793

Total number of species and pseudospecies 156

Number of species, excluding pseudospecies and ones with no occurrences 63

Sample weights:

Species weights:

?

\*\*\*\*\*

DIVISION 1 (N= 18) I.E. GROUP \*  
Eigenvalue 0.318 at iteration 3  
INDICATORS, together with their SIGN  
SIDC RY 1(-) DIAB RA 2(+)

Maximum indicator score for negative group -1 Minimum indicator score for positive group 0

Items in NEGATIVE group 2 (N= 12) i.e. group \*0

D2 D3 G3 B2 B3 I2 I3 K2 K3 S1 S2 S3

BORDERLINE negatives (N= 1)

S1

Items in POSITIVE group 3 (N= 6) i.e. group \*1

D1 G1 G2 B1 I1 K1

NEGATIVE PREFERENTIALS

ACRH AR 1( 8, 0) ACRN EG 1( 4, 0) ALOG UTT 1( 9, 1) ALOP RO 1( 3, 0) ALON AN 1( 5, 0) BOSC OF  
CERM EG 1( 6, 0) CERP ULL 1( 6, 1) CERR ET 1( 4, 0) DAPA MB 1( 3, 0) DAPG AL 1( 8, 0) DIAO RG  
DISR OS 1( 9, 2) EURL AM 1( 8, 0) GRAT EST 1( 9, 0) ILYA GI 1( 4, 0) ILYS OR 1( 5, 1) LEYL EY 1( 4  
MACH IR 1( 7, 1) MACL AT 1( 8, 2) PLEA DU 1( 11, 1) PLED EN 1( 9, 0) PLEL AE 1( 3, 0) PERT RU 1  
PLEU NC 1( 6, 1) PSEG LO 1( 4, 0) SIDC RY 1( 12, 1) SIMC ON 1( 3, 0) SIMS ERR 1( 8, 0) SIMV ET 1  
ACRH AR 2( 3, 0) ALOG UTT 2( 4, 0) CERP ULL 2( 5, 1) DAPG AL 2( 4, 0) DIAO RG 2( 4, 1) DISR OS  
GRAT EST 2( 4, 0) MACL AT 2( 6, 0) PLEA DU 2( 7, 0) PLED EN 2( 3, 0) SCAM UC 2( 8, 2) SIDC RY :  
SIMS ERR 2( 4, 0) SIMV ET 2( 10, 2) CHYD SPH 3( 12, 2) PLEA DU 3( 3, 0) SCAM UC 3( 3, 0) SIDC RY  
CHYD SPH 4( 10, 1) SIMV ET 4( 3, 0) CHYD SPH 5( 6, 1)

POSITIVE PREFERENTIALS

DAPL ON 1( 4, 6) DIAB RA 1( 5, 5) MOIB RA 1( 2, 4) ALOQ UA 2( 2, 3) DAPC UC 2( 3, 4) DAPL ON  
DIAB RA 2( 0, 5) MOIB RA 2( 1, 3) ALOQ UA 3( 0, 2) DAPC UC 3( 1, 4) DAPL ON 3( 0, 3) DIAB RA  
DAPC UC 4( 0, 2) DAPL ON 4( 0, 2) DIAB RA 4( 0, 2) DIAB RA 5( 0, 2)

NON-PREFERENTIALS

ALOA FF 1( 10, 6) ALOC OS 1( 3, 1) ALOQ UA 1( 8, 3) ALOR EC 1( 12, 4) ALOE XS 1( 5, 2) BOLL ON  
DAPC UC 1( 7, 5) CHYD SPH 1( 12, 5) MOIM IC 1( 11, 5) SCAM UC 1( 11, 4) ALOA FF 2( 7, 4) ALOR E  
BOLL ON 2( 12, 6) CHYD SPH 2( 12, 5) MACH IR 2( 3, 1) MOIM IC 2( 6, 3) ALOA FF 3( 3, 2) ALOR EC  
BOLL ON 3( 11, 6) DISR OS 3( 3, 1) SIMV ET 3( 5, 2) BOLL ON 4( 8, 6) BOLL ON 5( 5, 4)

End of level 1

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DIVISION 2 (N= 12) I.E. GROUP \*0

Eigenvalue 0.297 at iteration 3

INDICATORS, together with their SIGN

LEYL EY 1(+)

Maximum indicator score for negative group 0 Minimum indicator score for positive group 1

Items in NEGATIVE group 4 (N= 8) i.e. group \*00

B2 B3 I3 K2 K3 S1 S2 S3

BORDERLINE negatives (N= 1)

S1

Items in POSITIVE group 5 (N= 4) i.e. group \*01



D2 D3 G3 I2

NEGATIVE PREFERENTIALS

ALOC OS 1( 3, 0) ALOE XS 1( 5, 0) ALON AN 1( 5, 0) CAMR EC 1( 2, 0) CERM EG 1( 6, 0) CERP ULL  
CERQ UA 1( 2, 0) CERR ET 1( 4, 0) DAPA MB 1( 3, 0) DIAB RA 1( 5, 0) DIAM ON 1( 2, 0) PLEL AE :  
PERT RU 1( 6, 1) POLP ED 1( 2, 0) PSEG LO 1( 4, 0) SCAR AM 1( 2, 0) SIMC ON 1( 3, 0) SIME XS 1  
SIMS ERR 1( 7, 1) ACRN EG 2( 2, 0) ALOG UTT 2( 4, 0) CERP ULL 2( 5, 0) CERR ET 2( 2, 0) PLEA DU  
SCAM UC 2( 7, 1) SIMS ERR 2( 4, 0) ALOR EC 3( 3, 0) MOIM IC 3( 2, 0) PLEA DU 3( 3, 0) SIMV ET  
CHYD SPH 4( 8, 2) SIMV ET 4( 3, 0) CHYD SPH 5( 6, 0)

POSITIVE PREFERENTIALS

ALOP RO 1( 1, 2) ALOQ UA 1( 4, 4) BOSC OR 1( 2, 4) BOSL NS 1( 0, 2) DAPC UC 1( 3, 4) DAPL ON  
DAPP UL 1( 0, 1) ILYS OR 1( 2, 3) LEPK IN 1( 1, 1) LEYL EY 1( 0, 4) MACL AT 1( 4, 4) MOIB RA 1(  
MOIW EI 1( 0, 1) MOND IS 1( 0, 1) PLEU NC 1( 3, 3) ALOA FF 2( 3, 4) ALOP RO 2( 0, 1) ALOQ UA  
BOSC OR 2( 1, 1) DAPC UC 2( 0, 3) DAPG AL 2( 1, 3) DIAO RG 2( 2, 2) EURL AM 2( 1, 1) ILYS OR :  
LEYL EY 2( 0, 2) MACH IR 2( 0, 3) MACL AT 2( 2, 4) MOIM IC 2( 3, 3) PLEU NC 2( 0, 2) ALOA FF 3  
BOSC OR 3( 0, 1) DAPC UC 3( 0, 1) DAPG AL 3( 0, 1) DIAO RG 3( 0, 2) DISR OS 3( 1, 2) MACH IR :  
PLEU NC 3( 0, 1) ALOA FF 4( 0, 2) DAPG AL 4( 0, 1) DIAO RG 4( 0, 1) MACH IR 4( 0, 2) SCAM UC  
ALOA FF 5( 0, 1)

NON-PREFERENTIALS

ACRH AR 1( 6, 2) ACRN EG 1( 3, 1) ALOA FF 1( 6, 4) ALOG UTT 1( 7, 2) ALOR EC 1( 8, 4) BOLL ON  
DAPG AL 1( 5, 3) DIAO RG 1( 6, 4) DISR OS 1( 5, 4) EURL AM 1( 5, 3) GRAT EST 1( 7, 2) CHYD SPH  
ILYA GI 1( 3, 1) MACH IR 1( 4, 3) MOIM IC 1( 8, 3) PLEA DU 1( 8, 3) PLED EN 1( 7, 2) SCAM UC 1  
SIDC RY 1( 8, 4) SIMV ET 1( 8, 4) ACRH AR 2( 2, 1) ALOR EC 2( 5, 2) BOLL ON 2( 8, 4) DISR OS 2(  
GRAT EST 2( 3, 1) CHYD SPH 2( 8, 4) PLED EN 2( 2, 1) SIDC RY 2( 3, 2) SIMV ET 2( 7, 3) BOLL ON 3  
CHYD SPH 3( 8, 4) SCAM UC 3( 2, 1) SIDC RY 3( 2, 1) BOLL ON 4( 5, 3) BOLL ON 5( 3, 2)

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DIVISION 3 (N= 6) I.E. GROUP \*1

Eigenvalue 0.386 at iteration 2

INDICATORS, together with their SIGN

ALOA FF 2(-)

Maximum indicator score for negative group -1 Minimum indicator score for positive group 0

Items in NEGATIVE group 6 (N= 4) i.e. group \*10

D1 G1 G2 B1

Items in POSITIVE group 7 (N= 2) i.e. group \*11

I1 K1

NEGATIVE PREFERENTIALS

ALOQ UA 1( 3, 0) CERP ULL 1( 1, 0) DIAO RG 1( 1, 0) DISR OS 1( 2, 0) ILYS OR 1( 1, 0) LEPK IN 1(  
MACH IR 1( 1, 0) MACL AT 1( 2, 0) PERT RU 1( 1, 0) PLEU NC 1( 1, 0) ALOA FF 2( 4, 0) ALOQ UA  
CERP ULL 2( 1, 0) DAPL ON 2( 4, 1) DIAO RG 2( 1, 0) DISR OS 2( 1, 0) ILYS OR 2( 1, 0) LEPK IN 2(  
MACH IR 2( 1, 0) PERT RU 2( 1, 0) PLEU NC 2( 1, 0) SCAM UC 2( 2, 0) ALOA FF 3( 2, 0) ALOQ UA  
DAPL ON 3( 3, 0) DIAO RG 3( 1, 0) DISR OS 3( 1, 0) MACH IR 3( 1, 0) ALOA FF 4( 1, 0) ALOQ UA 4  
DAPC UC 4( 2, 0) DAPL ON 4( 2, 0) DIAO RG 4( 1, 0) DISR OS 4( 1, 0) ALOQ UA 5( 1, 0)

POSITIVE PREFERENTIALS

ALOC OS 1( 0, 1) ALOG UTT 1( 0, 1) ALOR EC 1( 2, 2) ALOE XS 1( 1, 1) MOIB RA 1( 2, 2) PLEA DU  
SCAM UC 1( 2, 2) SIDC RY 1( 0, 1) SIMV ET 1( 1, 1) ALOC OS 2( 0, 1) ALOR EC 2( 1, 2) ALOE XS 2(  
MOIB RA 2( 1, 2) MOIM IC 2( 1, 2) SIDC RY 2( 0, 1) SIMV ET 2( 1, 1) ALOR EC 3( 1, 1) DIAB RA 3(  
CHYD SPH 3( 1, 1) MOIB RA 3( 0, 1) SIMV ET 3( 1, 1) DIAB RA 4( 0, 2) CHYD SPH 4( 0, 1) MOIB RA  
DIAB RA 5( 0, 2) CHYD SPH 5( 0, 1) MOIB RA 5( 0, 1)

NON-PREFERENTIALS

ALOA FF 1( 4, 2) BOLL ON 1( 4, 2) DAPC UC 1( 3, 2) DAPL ON 1( 4, 2) DIAB RA 1( 3, 2) CHYD SPH  
MOIM IC 1( 3, 2) BOLL ON 2( 4, 2) DAPC UC 2( 3, 1) DIAB RA 2( 3, 2) CHYD SPH 2( 3, 2) BOLL ON  
DAPC UC 3( 3, 1) BOLL ON 4( 4, 2) BOLL ON 5( 3, 1)

End of level 2

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DIVISION 4 (N= 8) I.E. GROUP \*00

Eigenvalue 0.256 at iteration 6

INDICATORS, together with their SIGN

ALOA FF 1(+)

Maximum indicator score for negative group 0 Minimum indicator score for positive group 1

Items in NEGATIVE group 8 (N= 2) i.e. group \*000

S1 S2

Items in POSITIVE group 9 (N= 6) i.e. group \*001

B2 B3 I3 K2 K3 S3

NEGATIVE PREFERENTIALS

ALOE XS 1( 2, 3) CERQ UA 1( 1, 1) DAPL ON 1( 1, 1) DIAB RA 1( 2, 3) ILYS OR 1( 1, 1) MOIB RA 1  
POLP ED 1( 2, 0) SIME XS 1( 1, 1) CERM EG 2( 1, 0) CERQ UA 2( 1, 0) CERR ET 2( 1, 1) DAPG AL 2  
DAPL ON 2( 1, 0) EURL AM 2( 1, 0) MOIB RA 2( 1, 0) EURL AM 3( 1, 0) MOIM IC 3( 1, 1) SCAM U  
BOLL ON 4( 2, 3) MOIM IC 4( 1, 0) SCAM UC 4( 1, 0) SIMV ET 5( 1, 0)

POSITIVE PREFERENTIALS

ALOA FF 1( 0, 6) ALOC OS 1( 0, 3) ALON AN 1( 0, 5) BOSCOR 1( 0, 2) CAMR EC 1( 0, 2) DAPA ME  
DAPC UC 1( 0, 3) DIAM ON 1( 0, 2) DIAO RG 1( 0, 6) DISR OS 1( 0, 5) GRAT EST 1( 1, 6) ILYA GI 1  
MACL AT 1( 0, 4) PLED EN 1( 1, 6) PLEL AE 1( 0, 3) PLEU NC 1( 0, 3) PSEG LO 1( 0, 4) SCAR AM 1  
SIMS ERR 1( 1, 6) ACRH AR 2( 0, 2) ACRN EG 2( 0, 2) ALOA FF 2( 0, 3) ALOG UTT 2( 0, 4) ALOR EC  
DIAO RG 2( 0, 2) DISR OS 2( 0, 4) GRAT EST 2( 0, 3) MACL AT 2( 0, 2) PLED EN 2( 0, 2) SIDC RY 2(  
SIMS ERR 2( 0, 4) SIMV ET 2( 1, 6) ALOR EC 3( 0, 3) PLEA DU 3( 0, 3) SIDC RY 3( 0, 2)

NON-PREFERENTIALS

ACRH AR 1( 2, 4) ACRN EG 1( 1, 2) ALOG UTT 1( 2, 5) ALOQ UA 1( 1, 3) ALOR EC 1( 2, 6) BOLL ON  
CERM EG 1( 1, 5) CERP ULL 1( 1, 4) CERR ET 1( 1, 3) DAPG AL 1( 1, 4) EURL AM 1( 1, 4) CHYD SPH  
MACH IR 1( 1, 3) MOIM IC 1( 2, 6) PLEA DU 1( 2, 6) PERT RU 1( 1, 5) SCAM UC 1( 2, 6) SIDC RY 1  
SIMC ON 1( 1, 2) SIMV ET 1( 2, 6) BOLL ON 2( 2, 6) CERP ULL 2( 1, 4) CHYD SPH 2( 2, 6) MOIM IC  
PLEA DU 2( 1, 5) SCAM UC 2( 2, 5) BOLL ON 3( 2, 5) CHYD SPH 3( 2, 6) SIMV ET 3( 1, 3) CHYD SPH  
SIMV ET 4( 1, 2) BOLL ON 5( 1, 2) CHYD SPH 5( 1, 5)

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DIVISION 5 (N= 4) I.E. GROUP \*01

DIVISION FAILS - There are too few items

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DIVISION 6 (N= 4) I.E. GROUP \*10

DIVISION FAILS - There are too few items

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DIVISION 7 (N= 2) I.E. GROUP \*11

DIVISION FAILS - There are too few items

End of level 3

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DIVISION 8 (N= 2) I.E. GROUP \*000

DIVISION FAILS - There are too few items

\*\*\*\*\*

DIVISION 9 (N= 6) I.E. GROUP \*001

Eigenvalue 0.269 at iteration 2

INDICATORS, together with their SIGN

ALOE XI 1(-)

Maximum indicator score for negative group -1 Minimum indicator score for positive group 0

Items in NEGATIVE group 18 (N= 1) i.e. group \*0010

K3

Items in POSITIVE group 19 (N= 5) i.e. group \*0011

B2 B3 I3 K2 S3

NEGATIVE PREFERENTIALS

ACRN EG 1( 1, 1) ALOC OS 1( 1, 2) ALOE XS 1( 1, 2) ALOE XI 1( 1, 0) ANCH EMA 1( 1, 0) CAMR EC  
CERL AT 1( 1, 0) CERQ UA 1( 1, 0) CERR ET 1( 1, 2) CERR ET 1( 1, 0) CERS ET 1( 1, 0) DIAB RA 1(  
LATR EC 1( 1, 0) PLEL AE 1( 1, 2) SCAR AM 1( 1, 1) ACRH AR 2( 1, 1) ACRN EG 2( 1, 1) ALOE XS 2  
ALOE XI 2( 1, 0) ALON AN 2( 1, 0) GRAT EST 2( 1, 2) PLED EN 2( 1, 1) ACRN EG 3( 1, 0) ALOR EC 3  
ALON AN 3( 1, 0) SIMS ERR 3( 1, 0) SIMV ET 3( 1, 2) BOLL ON 4( 1, 2) BOLL ON 5( 1, 1)

POSITIVE PREFERENTIALS

ALOQ UA 1( 0, 3) BOSCO R 1( 0, 2) DAPA MB 1( 0, 3) DAPC UC 1( 0, 3) DIAM ON 1( 0, 2) ILYA GI  
MACH IR 1( 0, 3) MACL AT 1( 0, 4) PLEU NC 1( 0, 3) PSEG LO 1( 0, 4) SIMC ON 1( 0, 2) ALOA FF 2  
DIAO RG 2( 0, 2) DISR OS 2( 0, 4) MACL AT 2( 0, 2) MOIM IC 2( 0, 2) PLEA DU 2( 0, 5) SIDC RY 2(  
PLEA DU 3( 0, 3) SIDC RY 3( 0, 2) SIMV ET 4( 0, 2) CHYD SPH 5( 0, 5)

NON-PREFERENTIALS

ACRH AR 1( 1, 3) ALOA FF 1( 1, 5) ALOG UTT 1( 1, 4) ALOR EC 1( 1, 5) ALON AN 1( 1, 4) BOLL ON  
CERM EG 1( 1, 4) CERP ULL 1( 1, 3) DAPG AL 1( 1, 3) DIAO RG 1( 1, 5) DISR OS 1( 1, 4) EURL AM  
GRAT EST 1( 1, 5) CHYD SPH 1( 1, 5) MOIM IC 1( 1, 5) PLEA DU 1( 1, 5) PLED EN 1( 1, 5) PERT RU  
SCAM UC 1( 1, 5) SIDC RY 1( 1, 5) SIMS ERR 1( 1, 5) SIMV ET 1( 1, 5) ALOG UTT 2( 1, 3) ALOR EC 2  
BOLL ON 2( 1, 5) CERP ULL 2( 1, 3) CHYD SPH 2( 1, 5) SCAM UC 2( 1, 4) SIMS ERR 2( 1, 3) SIMV ET

BOLL ON 3( 1, 4) CHYD SPH 3( 1, 5) CHYD SPH 4( 1, 5)

End of level 4

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DIVISION 18 (N= 1) I.E. GROUP \*0010

DIVISION FAILS - There are too few items

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DIVISION 19 (N= 5) I.E. GROUP \*0011

Eigenvalue 0.266 at iteration 1

INDICATORS, together with their SIGN

ALOC OS 1(+)

Maximum indicator score for negative group 0 Minimum indicator score for positive group 1

Items in NEGATIVE group 38 (N= 3) i.e. group \*00110

I3 K2 S3

Items in POSITIVE group 39 (N= 2) i.e. group \*00111

B2 B3

NEGATIVE PREFERENTIALS

ACRN EG 1( 1, 0) CAMR EC 1( 1, 0) CERP ULL 1( 3, 0) CERR ET 1( 2, 0) DAPA MB 1( 3, 0) DAPL ON  
DAPP AR 1( 1, 0) DIAB RA 1( 2, 0) DIAM ON 1( 2, 0) DISH AM 1( 1, 0) LEPK IN 1( 1, 0) SCAR AM :  
SIMC ON 1( 2, 0) SIME XS 1( 1, 0) ACRH AR 2( 1, 0) ACRN EG 2( 1, 0) CERP ULL 2( 3, 0) CERR ET 2  
MOIM IC 2( 2, 0) SIME XS 2( 1, 0) ALOG UTT 3( 1, 0) BOLL ON 3( 3, 1) CERP ULL 3( 1, 0) MOIM IC  
SCAM UC 3( 1, 0) SIMV ET 3( 2, 0) BOLL ON 4( 2, 0) SIMV ET 4( 2, 0) BOLL ON 5( 1, 0)

POSITIVE PREFERENTIALS

ACRH AR 1( 1, 2) ALOC OS 1( 0, 2) ALOP RO 1( 0, 1) ALOQ UA 1( 1, 2) BOSCO R 1( 0, 2) CHYD OV  
ILYS OR 1( 0, 1) PLEL AE 1( 0, 2) PLEU NC 1( 1, 2) ALOA FF 2( 1, 2) ALOC OS 2( 0, 1) ALOG UTT 2(  
BOSCO R 2( 0, 1) PLED EN 2( 0, 1) PERT RU 2( 0, 1) ALOR EC 3( 0, 2) DISR OS 3( 0, 1) MACL AT 3  
PERT RU 3( 0, 1) MACL AT 4( 0, 1)

NON-PREFERENTIALS

ALOA FF 1( 3, 2) ALOG UTT 1( 2, 2) ALOR EC 1( 3, 2) ALOE XS 1( 1, 1) ALON AN 1( 2, 2) BOLL ON  
CERM EG 1( 2, 2) DAPC UC 1( 2, 1) DAPG AL 1( 2, 1) DIAO RG 1( 3, 2) DISR OS 1( 2, 2) EURL AM  
GRAT EST 1( 3, 2) CHYD SPH 1( 3, 2) ILYA GI 1( 2, 1) MACH IR 1( 2, 1) MACL AT 1( 2, 2) MOIM IC  
PLEA DU 1( 3, 2) PLED EN 1( 3, 2) PERT RU 1( 2, 2) PSEG LO 1( 2, 2) SCAM UC 1( 3, 2) SIDC RY 1(  
SIMS ERR 1( 3, 2) SIMV ET 1( 3, 2) ALOR EC 2( 2, 2) BOLL ON 2( 3, 2) DIAO RG 2( 1, 1) DISR OS 2(  
GRAT EST 2( 1, 1) CHYD SPH 2( 3, 2) MACL AT 2( 1, 1) PLEA DU 2( 3, 2) SCAM UC 2( 2, 2) SIDC RY  
SIMS ERR 2( 2, 1) SIMV ET 2( 3, 2) CHYD SPH 3( 3, 2) PLEA DU 3( 2, 1) SIDC RY 3( 1, 1) CHYD SPH  
CHYD SPH 5( 3, 2)

End of level 5

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DIVISION 38 (N= 3) I.E. GROUP \*00110

DIVISION FAILS - There are too few items

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DIVISION 39 (N= 2) I.E. GROUP \*00111

DIVISION FAILS - There are too few items

This is the end of the divisions requested

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DIVISION 1 (N= 63) I.E. GROUP \*

Eigenvalue 0.719 at iteration 3

Items in NEGATIVE group 2 (N= 52) i.e. group \*0

ACRH AR ACRN EG ALOC OS ALOG UTT ALOP RO ALOE XI ALON AN ANCH EMA BOSC OR I  
CERL AT CERM EG CERP ULL CERQ UA CERR ET CERR ET CERS ET DAPA MB DAPG AL DAP  
DIAM ON DIAO RG DISH AM DISR OS EURL AM GRAT EST CHYD OVA CHYD SPH ILYA GI ILY  
LEYL EY MACH IR MACL AT MOIW EI MOND IS PLEA DU PLED EN PLEL AE PERT RU PLEU  
PSEG LO SCAM UC SCAR AM SIDC RY SIMC ON SIME XS SIMS ERR SIMV ET

Items in POSITIVE group 3 (N= 11) i.e. group \*1

ALOA FF ALOQ UA ALOR EC ALOE XS BOLL ON DAPC UC DAPL ON DIAB RA LEPK IN MOIE

End of level 1

\*\*\*\*\*

DIVISION 2 (N= 52) I.E. GROUP \*0

Eigenvalue 0.339 at iteration 3

Items in NEGATIVE group 4 (N= 42) i.e. group \*00

ACRH AR ACRN EG ALOG UTT ALOP RO ALOE XI ALON AN ANCH EMA BOSC OR BOSL NS C  
CERM EG CERP ULL CERQ UA CERR ET CERR ET CERS ET DAPA MB DAPG AL DAPP AR DAI  
DISH AM EURL AM GRAT EST CHYD OVA ILYA GI LATR EC LEYL EY MOIW EI MOND IS PLE/  
PLEL AE PERT RU POLP ED PSEG LO SCAR AM SIDC RY SIMC ON SIME XS SIMS ERR

Items in POSITIVE group 5 (N= 10) i.e. group \*01

ALOC OS DIAO RG DISR OS CHYD SPH ILYS OR MACH IR MACL AT PLEU NC SCAM UC SIM

\*\*\*\*\*

DIVISION 3 (N= 11) I.E. GROUP \*1

Eigenvalue 0.565 at iteration 3

Items in NEGATIVE group 6 (N= 4) i.e. group \*10

ALOR EC ALOE XS BOLL ON MOIM IC

Items in POSITIVE group 7 (N= 7) i.e. group \*11

ALOA FF ALOQ UA DAPC UC DAPL ON DIAB RA LEPK IN MOIB RA

End of level 2

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DIVISION 4 (N= 42) I.E. GROUP \*00  
Eigenvalue 0.179 at iteration 3

Items in NEGATIVE group 8 (N= 31) i.e. group \*000  
ACRN EG ALOG UTT ALOE XI ALON AN ANCH EMA CAMR EC CERL AT CERM EG CERP ULL (  
CERR ET CERS ET DAPA MB DAPP AR DIAM ON DISH AM GRAT EST CHYD OVA ILYA GI LA7  
PLED EN PLEL AE PERT RU POLP ED PSEG LO SCAR AM SIMC ON SIME XS SIMS ERR

Items in POSITIVE group 9 (N= 11) i.e. group \*001  
ACRH AR ALOP RO BOSC OR BOSL NS DAPG AL DAPP UL EURL AM LEYL EY MOIW EI MO  
\*\*\*\*\*

DIVISION 5 (N= 10) I.E. GROUP \*01  
Eigenvalue 0.362 at iteration 3

Items in NEGATIVE group 10 (N= 5) i.e. group \*010  
DIAO RG ILYS OR MACH IR MACL AT PLEU NC

Items in POSITIVE group 11 (N= 5) i.e. group \*011  
ALOC OS DISR OS CHYD SPH SCAM UC SIMV ET  
\*\*\*\*\*

DIVISION 6 (N= 4) I.E. GROUP \*10  
DIVISION FAILS - There are too few items

\*\*\*\*\*

DIVISION 7 (N= 7) I.E. GROUP \*11  
Eigenvalue 0.336 at iteration 2

Items in NEGATIVE group 14 (N= 4) i.e. group \*110  
ALOA FF ALOQ UA DAPC UC LEPK IN

Items in POSITIVE group 15 (N= 3) i.e. group \*111  
DAPL ON DIAB RA MOIB RA

End of level 3

\*\*\*\*\*

DIVISION 8 (N= 31) I.E. GROUP \*000  
Eigenvalue 0.120 at iteration 2

Items in NEGATIVE group 16 (N= 3) i.e. group \*0000  
ALOG UTT CERP ULL PERT RU

Items in POSITIVE group 17 (N= 28) i.e. group \*0001

ACRN EG ALOE XI ALON AN ANCH EMA CAMR EC CERL AT CERM EG CERQ UA CERR ET CI  
DAPA MB DAPP AR DIAM ON DISH AM GRAT EST CHYD OVA ILYA GI LATR EC PLEA DU PL  
POLP ED PSEG LO SCAR AM SIMC ON SIME XS SIMS ERR

\*\*\*\*\*

DIVISION 9 (N= 11) I.E. GROUP \*001  
Eigenvalue 0.202 at iteration 2

Items in NEGATIVE group 18 (N= 3) i.e. group \*0010  
ACRH AR EURL AM SIDC RY

Items in POSITIVE group 19 (N= 8) i.e. group \*0011  
ALOP RO BOSC OR BOSL NS DAPG AL DAPP UL LEYL EY MOIW EI MOND IS

\*\*\*\*\*

DIVISION 10 (N= 5) I.E. GROUP \*010  
Eigenvalue 0.407 at iteration 1

Items in NEGATIVE group 20 (N= 1) i.e. group \*0100  
MACL AT

Items in POSITIVE group 21 (N= 4) i.e. group \*0101  
DIAO RG ILYS OR MACH IR PLEU NC

\*\*\*\*\*

DIVISION 11 (N= 5) I.E. GROUP \*011  
Eigenvalue 0.269 at iteration 1

Items in NEGATIVE group 22 (N= 4) i.e. group \*0110  
DISR OS CHYD SPH SCAM UC SIMV ET

Items in POSITIVE group 23 (N= 1) i.e. group \*0111  
ALOC OS

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DIVISION 14 (N= 4) I.E. GROUP \*110  
DIVISION FAILS - There are too few items

\*\*\*\*\*

DIVISION 15 (N= 3) I.E. GROUP \*111  
DIVISION FAILS - There are too few items

End of level 4

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DIVISION 16 (N= 3) I.E. GROUP \*0000  
DIVISION FAILS - There are too few items

\*\*\*\*\*

DIVISION 17 (N= 28) I.E. GROUP \*0001  
Eigenvalue 0.078 at iteration 3

Items in NEGATIVE group 34 (N= 23) i.e. group \*00010  
ALOE XI ALON AN ANCH EMA CAMR EC CERL AT CERM EG CERQ UA CERR ET CERR ET CE  
DAPP AR DIAM ON DISH AM CHYD OVA LATR EC PLEL AE POLP ED PSEG LO SCAR AM SIN  
SIMS ERR

Items in POSITIVE group 35 (N= 5) i.e. group \*00011  
ACRN EG GRAT EST ILYA GI PLEA DU PLED EN

DIVISION 18 (N= 3) I.E. GROUP \*0010  
DIVISION FAILS - There are too few items

DIVISION 19 (N= 8) I.E. GROUP \*0011  
Eigenvalue 0.052 at iteration 1

Items in NEGATIVE group 38 (N= 2) i.e. group \*00110  
BOSC OR DAPG AL

Items in POSITIVE group 39 (N= 6) i.e. group \*00111  
ALOP RO BOSL NS DAPP UL LEYL EY MOIW EI MOND IS

DIVISION 20 (N= 1) I.E. GROUP \*0100  
DIVISION FAILS - There are too few items

DIVISION 21 (N= 4) I.E. GROUP \*0101  
DIVISION FAILS - There are too few items

DIVISION 22 (N= 4) I.E. GROUP \*0110  
DIVISION FAILS - There are too few items

DIVISION 23 (N= 1) I.E. GROUP \*0111  
DIVISION FAILS - There are too few items

End of level 5

DIVISION 34 (N= 23) I.E. GROUP \*00010  
Eigenvalue 0.045 at iteration 3

Items in NEGATIVE group 68 (N= 17) i.e. group \*000100  
ALOE XI ALON AN ANCH EMA CAMR EC CERL AT CERR ET CERS ET DAPA MB DAPP AR DI



CHYD OVA LATR EC PLEL AE PSEG LO SCAR AM SIMS ERR

Items in POSITIVE group 69 (N= 6) i.e. group \*000101  
CERM EG CERQ UA CERR ET POLP ED SIMC ON SIME XS

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DIVISION 35 (N= 5) I.E. GROUP \*00011  
Eigenvalue 0.025 at iteration 1

Items in NEGATIVE group 70 (N= 4) i.e. group \*000110  
ACRN EG GRAT EST PLEA DU PLED EN

Items in POSITIVE group 71 (N= 1) i.e. group \*000111  
ILYA GI

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DIVISION 38 (N= 2) I.E. GROUP \*00110  
DIVISION FAILS - There are too few items

\*\*\*\*\*

DIVISION 39 (N= 6) I.E. GROUP \*00111  
Eigenvalue 0.016 at iteration 8

Items in NEGATIVE group 78 (N= 5) i.e. group \*001110  
BOSL NS DAPP UL LEYL EY MOIW EI MOND IS

Items in POSITIVE group 79 (N= 1) i.e. group \*001111  
ALOP RO

End of level 6

This is the end of the divisions requested

\*\*\*\*\*

ORDER OF SPECIES INCLUDING RARER ONES

5 ALOG UTT ! 19 CERP ULL ! 53 PERT RU ! 10 ALOE XI ! 11 ALON AN ! 12 ANCH EMA ! 16 CAMR E  
22 CERR ET ! 23 CERS ET ! 24 DAPA MB ! 28 DAPP AR ! 31 DIAM ON ! 33 DISH AM ! 37 CHYD OV  
52 PLEL AE ! 56 PSEG LO ! 58 SCAR AM ! 62 SIMS ERR ! 18 CERM EG ! 20 CERQ UA ! 21 CERR ET  
60 SIMC ON ! 61 SIME XS ! 2 ACRN EG ! 36 GRAT EST ! 50 PLEA DU ! 51 PLED EN ! 39 ILYA GI !  
35 EURL AM ! 59 SIDC RY ! 13 BOSC OR ! 26 DAPG AL ! 14 BOSL NS ! 29 DAPP UL ! 43 LEYL EY !  
49 MOND IS ! 6 ALOP RO ! 45 MACL AT ! 32 DIAO RG ! 40 ILYS OR ! 44 MACH IR ! 54 PLEU NC !  
38 CHYD SPH ! 57 SCAM UC ! 63 SIMV ET ! 4 ALOC OS ! 8 ALOR EC ! 9 ALOE XS ! 15 BOLL ON !  
3 ALOA FF ! 7 ALOQ UA ! 25 DAPC UC ! 42 LEPK IN ! 27 DAPL ON ! 30 DIAB RA ! 46 MOIB RA !

ORDER OF SAMPLES

16 S1 ! 17 S2 ! 15 K3 ! 12 I3 ! 14 K2 ! 18 S3 ! 8 B2  
9 B3 ! 2 D2 ! 3 D3 ! 6 G3 ! 11 I2 ! 1 D1 ! 4 G1  
5 G2 ! 7 B1 ! 10 I1 ! 13 K1 !

SSKIKSBDDGIDGGBIK

1.23E+17

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111111 1 11

6.75E+17

5 ALOG UTT 112-3122-11-----1 0000  
19 CERP ULL -22223-----1---2-- 0000  
53 PERT RU -111-113---1-2---- 0000  
10 ALOE XI --2----- 000100  
11 ALON AN --31-111----- 000100  
12 ANCH EMA --1----- 000100  
16 CAMR EC --1-1----- 000100  
17 CERL AT --1----- 000100  
22 CERR ET --1----- 000100  
23 CERS ET --1----- 000100  
24 DAPA MB ---111----- 000100  
28 DAPP AR ---1----- 000100  
31 DIAM ON --1-1----- 000100  
33 DISH AM ---1----- 000100  
37 CHYD OVA -----1----- 000100  
41 LATR EC --1----- 000100  
52 PLEL AE --1---11----- 000100  
56 PSEG LO ---1-111----- 000100  
58 SCAR AM --1-1----- 000100  
62 SIMS ERR -1322121-1----- 000100  
18 CERM EG -21-1111----- 000101  
20 CERQ UA -21----- 000101  
21 CERR ET -21-12----- 000101  
55 POLP ED 11----- 000101  
60 SIMC ON -1-11----- 000101  
61 SIME XS -1-2----- 000101  
2 ACRN EG -13-2---1----- 000110  
36 GRAT EST -1212112-12----- 000110  
50 PLEA DU 1212332321-1-----1 000110  
51 PLED EN -1211112-1-2----- 000110  
39 ILYA GI ---1-1-1-1----- 000111  
1 ACRH AR 112--211-12----- 0010  
35 EURL AM -311-1-121-1----- 0010  
59 SIDC RY 111231131312-----2 0010  
13 BOSC OR -----121131----- 00110

26 DAPG AL -211-1-1242----- 00110  
 14 BOSL NS -----11----- 001110  
 29 DAPP UL -----1----- 001110  
 43 LEYL EY -----1212----- 001110  
 48 MOIW EI -----1----- 001110  
 49 MOND IS -----1----- 001110  
 6 ALOP RO -----1-12----- 001111  
 45 MACL AT ---2-1412222-1-1-- 0100  
 32 DIAO RG --1211211143--4-- 0101  
 40 ILYS OR -1---1-21-2--2--- 0101  
 44 MACH IR -1-1-1-142-4--3--- 0101  
 54 PLEU NC ---1--1132-1---2-- 0101  
 34 DISR OS --122-233321-14--- 0110  
 38 CHYD SPH 454555554334-23225 0110  
 57 SCAM UC 4223212241-1-2-211 0110  
 63 SIMV ET 1532442222133---3- 0110  
 4 ALOC OS --1---12-----2 0111  
 8 ALOR EC 113221331221--3123 10  
 9 ALOE XS 112--1-1-----1-2 10  
 15 BOLL ON 545534323455554554 10  
 47 MOIM IC 411321112-22-12122 10  
 3 ALOA FF --1121224532342211 110  
 7 ALOQ UA -1---11121125-32-- 110  
 25 DAPC UC ---1-11-2132-34431 110  
 42 LEPK IN ----1-----1--2--- 110  
 27 DAPL ON -2---1---11-442321 111  
 30 DIAB RA 111-11-----32255 111  
 46 MOIB RA 2-----1--1-252 111

111111  
 1.11E+09  
 111111  
 11111  
 11

Data table in TSV format

	S1	S2	K3	I3	K2	S3	B2	
		16	17	15	12	14	18	8
5 ALOGUTT		1	1	2 -		3	1	2
19 CERPULL -			2	2	2	2	3 -	
53 PERTRU -			1	1	1 -		1	1
10 ALOEXI -	-	-		2 -	-	-	-	
11 ALONAN -	-	-		3	1 -		1	1
12 ANCHEMA -	-	-		1 -	-	-	-	
16 CAMREC -	-	-		1 -	-		1 -	
17 CERLAT -	-	-		1 -	-	-	-	
22 CERRET -	-	-		1 -	-	-	-	
23 CERSET -	-	-		1 -	-	-	-	
24 DAPAMB -	-	-	-		1	1	1 -	
28 DAPPAR -	-	-	-		1 -	-	-	

31 DIAMON	-	-	-	1 -			1 -	
33 DISHAM	-	-	-	1 -	-		-	
37 CHYDOVA	-	-	-	-	-		-	
41 LATREC	-	-	1 -	-	-		-	
52 PLELAE	-	-	1 -	-	-			1
56 PSEGLO	-	-	-	1 -			1	1
58 SCARAM	-	-	1 -	-			1 -	
62 SIMSERR	-		1	3	2	2	1	2
18 CERMEG	-		2	1 -		1	1	1
20 CERQUA	-		2	1 -	-	-	-	
21 CERRET	-		2	1 -		1	2 -	
55 POLPED		1	1 -	-	-	-	-	
60 SIMCON	-		1 -	-		1	1 -	
61 SIMEXS	-		1 -	-		2 -	-	
2 ACRNEG	-		1	3 -	-		2 -	
36 GRATEST	-		1	2	1	2	1	1
50 PLEADU		1	2	1	2	3	3	2
51 PLEDEN	-		1	2	1	1	1	1
39 ILYAGI	-	-	-	1 -			1 -	
1 ACRHAR		1	1	2 -	-		2	1
35 EURLAM	-		3	1	1 -		1 -	
59 SIDCRY		1	1	1	2	3	1	1
13 BOSCOR	-	-	-	-	-	-		1
26 DAPGAL	-		2	1	1 -		1 -	
14 BOSLNS	-	-	-	-	-	-	-	
29 DAPPUL	-	-	-	-	-	-	-	
43 LEYLEY	-	-	-	-	-	-	-	
48 MOIWEI	-	-	-	-	-	-	-	
49 MONDIS	-	-	-	-	-	-	-	
6 ALOPRO	-	-	-	-	-	-	-	
45 MACLAT	-	-	-	2 -			1	4
32 DIAORG	-	-		1	2	1	1	2
40 ILYSOR	-		1 -	-	-	-		1
44 MACHIR	-		1 -		1 -		1 -	
54 PLEUNC	-	-	-		1 -	-		1
34 DISROS	-	-		1	2	2 -		2
38 CHYDSPH		4	5	4	5	5	5	5
57 SCAMUC		4	2	2	3	2	1	2
63 SIMVET		1	5	3	2	4	4	2
4 ALOCOS	-	-		1 -	-	-		1
8 ALOREC		1	1	3	2	2	1	3
9 ALOEXS		1	1	2 -	-		1 -	
15 BOLLON		5	4	5	5	3	4	3
47 MOIMIC		4	1	1	3	2	1	1
3 ALOAFF	-	-		1	1	2	1	2
7 ALOQUA	-		1 -	-	-		1	1
25 DAPCUC	-	-	-		1 -		1	1
42 LEPKIN	-	-	-	-		1 -	-	
27 DAPLON	-		2 -	-	-		1 -	
30 DIABRA		1	1	1 -		1	1 -	

46 MOIBRA

	2 -	-	-	-	-	-
*000	*000	*0010	*00110	*00110	*00110	*00111

for Windows), volně přístupném na <http://www.canodraw.com/wintwins.htm>.

8 ALOR EC  
N | 16 CAMR EC  
| 24 DAPA MB  
ON | 32 DIAO RG  
GI | 40 ILYS OR  
| 48 MOIW EI  
| 56 PSEG LO  
r |

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BOSL NS CAMR EC  
'P AR DAPP UL  
/S OR LATR EC  
NC POLP ED

3 RA MOIM IC

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CAMR EC CERL AT  
PP UL DIAM ON  
A DU PLED EN

V ET

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CERQ UA CERR ET  
TR EC PLEA DU

IND IS SIDC RY

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ERR ET CERS ET  
ED EN PLEL AE

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RS ET DAPA MB  
AC ON SIME XS

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AM ON DISH AM



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C ! 17 CERL AT  
'A ! 41 LATR EC  
! 55 POLP ED  
1 ACRH AR  
48 MOIW EI  
! 34 DISR OS  
47 MOIM IC





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-	2	3	4	5	5	5	5	4	5
-	1	2-	-	2	2-	-	1	2	1
-	2	4	5	3	2	3	4	2	2
-	1	2	1	1	2	5-	-	3	2
-	-	2	1	3	2-	-	3	4	4
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-	-	*000101
-	-	*000110
-	-	*000110
-	1	*000110
-	-	*000110
-	-	*000111
-	-	*0010
-	-	*0010
-	2	*0010
-	-	*00110
-	-	*00110
-	-	*001110
-	-	*001110
-	-	*001110
-	-	*001110
-	-	*001110
-	-	*001110
-	-	*001111
-	-	*0100
-	-	*0101
-	-	*0101
-	-	*0101
-	-	*0101
-	-	*0110
2	5	*0110
1	1	*0110
3	-	*0110
-	2	*0111
2	3	*10
-	2	*10
5	4	*10
2	2	*10
1	1	*110
-	-	*110
3	1	*110
-	-	*110
2	1	*111
5	5	*111

\*11      5      2 \*111  
         \*11

	S1	S2	K3	I3	K2	S3	B2	B3	D2	D3	G3	I2	D1	G1	G2	B1	I1	K1	
	16	17	15	12	14	18	8	9	2	3	6	11	1	4	5	7	10	13	
5 ALOGUTT	1	1	2	-	3	1	2	2	-	1	1	-	-	-	-	-	-	1	*0000
19 CERPULL	-	2	2	2	2	3	-	-	-	-	-	1	-	-	-	2	-	-	*0000
53 PLETRU	-	1	1	1	-	1	1	3	-	-	-	1	-	2	-	-	-	-	*0000
10 ALOEXI	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000100
11 ALONAN	-	-	3	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	*000100
12 ANCHEMA	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000100
16 CAMREC	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	*000100
17 CERLAT	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000100
22 CERROT	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000100
23 CERSET	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000100
24 DAPAMB	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	*000100
28 DAPPAR	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000100
31 DIAMON	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	*000100
33 DISHAM	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000100
37 CHYDOVA	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	*000100
41 LATREC	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000100
52 PLELAE	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	*000100
56 PSEGLO	-	-	-	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	*000100
58 SCARAM	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	*000100
62 SIMSERR	-	1	3	2	2	1	2	1	-	1	-	-	-	-	-	-	-	-	*000100
18 CERMEG	-	2	1	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	*000101
20 CERQUA	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000101
21 CERRET	-	2	1	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	*000101
55 POLPED	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*000101
60 SIMCON	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	*000101
61 SIMEXS	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	*000101
2 ACRNEG	-	1	3	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	*000110
36 GRATEST	-	1	2	1	2	1	1	2	-	1	2	-	-	-	-	-	-	-	*000110
50 PLEADU	1	2	1	2	3	3	2	3	2	1	-	1	-	-	-	-	-	1	*000110
51 PLEDEN	-	1	2	1	1	1	1	2	-	1	-	2	-	-	-	-	-	-	*000110
39 ILYAGI	-	-	-	1	-	1	-	1	-	-	1	-	-	-	-	-	-	-	*000111
1 ACRHAR	1	1	2	-	-	2	1	1	-	1	2	-	-	-	-	-	-	-	*0010
35 EURLAM	-	3	1	1	-	1	-	1	2	1	-	1	-	-	-	-	-	-	*0010
59 SIDCRY	1	1	1	2	3	1	1	3	1	3	1	2	-	-	-	-	-	2	*0010
13 BOSCOR	-	-	-	-	-	-	1	2	1	1	3	1	-	-	-	-	-	-	*00110
26 DAPGAL	-	2	1	1	-	1	-	1	2	4	2	-	-	-	-	-	-	-	*00110
14 BOSLNS	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	*001110
29 DAPPUL	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	*001110
43 LEYLEY	-	-	-	-	-	-	-	-	1	2	1	2	-	-	-	-	-	-	*001110
48 MOIWEI	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	*001110
49 MONDIS	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	*001110
6 ALOPRO	-	-	-	-	-	-	-	1	-	1	2	-	-	-	-	-	-	-	*001111
45 MACLAT	-	-	-	2	-	1	4	1	2	2	2	2	-	1	-	1	-	-	*0100
32 DIAORG	-	-	1	2	1	1	2	1	1	1	4	3	-	-	4	-	-	-	*0101
40 ILYSOR	-	1	-	-	-	-	1	-	2	1	-	2	-	-	2	-	-	-	*0101
44 MACHIR	-	1	-	1	-	1	-	1	4	2	-	4	-	-	3	-	-	-	*0101
54 PLEUNC	-	-	-	1	-	-	1	1	3	2	-	1	-	-	-	2	-	-	*0101

