

CANONICAL DISCRIMINANT ANALYSIS
POOLED WITHIN-CLASS CORRELATION MATRIX

VARIABLE	RACHLEN	INTNDLN	LNMDRL	PKLNL	HOMDL	APKAN	PPKPS	BSAN	BSPS	SVINS
RACHLEN	1.0000	0.6377	0.6349	0.3339	0.0795	-0.0713	-0.1204	-0.0961	-0.0798	-0.0255
INTNDLN	0.6377	1.0000	0.0546	0.1604	0.0951	-0.0785	-0.1681	-0.0036	-0.0665	-0.1703
LNMDRL	0.0345	0.0546	1.0000	0.3772	-0.4623	-0.4657	0.0524	-0.4583	0.0746	-0.3761
PKLNL	0.1339	0.1604	0.3772	1.0000	0.8090	0.0625	-0.0499	-0.0499	0.2039	-0.0358
HOMDL	0.0795	0.0951	-0.4623	0.8090	1.0000	0.1368	0.0174	0.1353	0.1047	0.3124
APKAN	-0.0713	-0.0785	-0.4657	-0.2456	0.1368	1.0000	-0.4201	0.0230	-0.1583	0.2565
APKPS	-0.1204	-0.1681	0.0524	0.0625	0.0174	-0.4201	1.0000	0.1618	0.1737	-0.0664
BSAN	-0.0961	-0.0036	-0.4583	-0.0499	0.3353	0.0330	0.1318	1.0000	0.2536	0.1090
BSPS	-0.0798	-0.0665	0.0746	0.2039	0.1047	-0.1583	0.1737	0.2536	1.0000	-0.0340
SVINS	-0.0255	-0.1703	-0.3761	-0.0358	0.3124	0.2565	-0.0664	0.1090	-0.0340	1.0000
WSECV	0.0871	0.0077	0.1951	0.5720	0.3629	-0.1303	-0.0128	0.0956	0.2710	0.2046
FINSV	-0.0267	0.0294	0.0204	0.1730	0.1335	-0.0363	0.0684	0.0678	0.1097	-0.1876
PTLFL	0.1703	0.2353	0.4687	0.2686	0.1635	-0.5835	-0.0520	-0.1133	0.1403	-0.0504
INTLN	0.1124	0.0745	-0.1167	0.1586	0.2344	0.0819	-0.3249	0.0417	0.0299	0.0523
NR	0.1802	0.1113	-0.0273	-0.0597	-0.3359	0.1726	-0.0470	-0.0120	0.0835	0.1244
IRL	0.0914	-0.0268	0.0607	-0.0480	-0.1075	-0.0684	0.0976	0.2780	0.3829	0.0304
GRCL	0.1049	0.0879	0.1368	0.1017	-0.0237	-0.0281	0.0696	0.1513	0.2253	-0.0402
IRW	0.0395	0.0204	-0.1550	-0.0825	0.1087	-0.0043	0.1091	0.1388	0.0243	-0.0597
OSRM	0.1188	0.1906	0.1343	0.2184	0.0949	-0.0876	0.0226	0.0774	0.1627	-0.1312
PKL	0.1982	0.0777	-0.0323	0.0705	0.0897	0.2180	-0.1470	-0.0748	0.0089	0.0787
LRP	0.1763	0.1065	0.1121	0.1664	0.0577	-0.0557	-0.1231	0.0495	0.1715	0.0524
NFLOR	0.1138	0.0407	0.1751	-0.0440	-0.1976	0.0915	0.0122	0.0083	0.3445	-0.0599
CRHLL	-0.0108	0.0209	0.1300	0.1472	0.0691	-0.0050	0.0378	-0.2038	0.0229	-0.0235
CRHLD	0.0561	0.1336	-0.0346	0.0897	0.1699	-0.0266	0.0171	0.0113	0.0011	0.1318
CRHWD	-0.0779	-0.0533	-0.0306	-0.0180	0.0125	-0.0236	0.0685	0.1112	0.0628	0.0105
CTFFA	0.0175	-0.0006	0.0539	0.0267	0.0100	0.0025	-0.0525	-0.0561	0.0923	0.0129
INFV	0.1207	-0.0258	0.1051	0.0229	-0.0780	0.0759	-0.0308	-0.0105	0.1594	-0.1649
INF	0.1460	0.0279	0.0279	-0.0139	-0.2311	0.0940	-0.0469	0.0682	0.2312	0.0295
FRML	-0.0017	0.0502	0.0443	0.0815	0.0536	0.0883	-0.0521	-0.0774	-0.0141	-0.0562
AKML	0.0800	-0.0674	-0.0071	0.1752	0.1115	0.0368	0.1446	0.0699	0.2219	0.0391
STKOL	0.1107	0.0392	-0.0701	0.0997	0.1785	-0.0182	0.0488	-0.0079	-0.0807	-0.0039
VACPKLN	-0.0692	-0.1912	0.0699	0.1246	-0.1615	0.0144	-0.0124	0.0393	0.0275	-0.0064
GRHWD	0.0419	0.0511	-0.0047	0.0733	0.0610	-0.1243	0.0833	0.1759	0.1426	-0.0292
CRHWD	0.0314	0.0718	-0.2339	0.0980	0.1167	-0.0747	0.1382	0.1251	0.1476	0.0229
VANGS	0.1157	0.1771	-0.3532	0.0546	0.3347	0.2435	-0.1456	0.2827	0.0705	0.0391
VANGS	-0.1802	-0.1082	-0.2151	0.1715	0.3003	-0.0240	-0.0133	0.2348	0.2656	0.1909
SHLNL	-0.0463	0.0394	0.7989	0.2791	-0.4367	-0.3073	-0.0861	-0.2041	0.3103	-0.3294
WAMFWD	0.1609	0.1366	-0.0289	0.1267	0.1286	-0.1856	-0.0415	-0.1540	-0.1821	0.0441
ILBLR	0.0385	-0.0810	0.1802	-0.0253	-0.2035	-0.0229	-0.0207	0.1497	0.3561	0.0668
GBLWR	-0.0231	-0.1339	-0.0475	-0.1870	-0.1383	0.0683	0.0189	0.0644	0.1009	0.2227
IVLWR	-0.0812	-0.0527	0.0205	0.0858	0.0618	-0.0520	-0.1544	-0.1047	-0.0310	0.1000
CRLLWR	-0.0234	-0.0629	0.1466	0.0676	-0.0652	0.0167	0.0033	-0.2022	-0.0335	-0.0865
CRLLWR	0.0039	-0.0925	0.0336	0.0032	-0.0192	0.0996	-0.0167	-0.1665	0.0070	0.0204
CRLLWR	-0.0068	-0.0415	-0.0068	-0.0301	0.0945	-0.0607	-0.0539	-0.1517	-0.0746	-0.0092
STLLWR	0.0005	-0.1939	0.0277	-0.0533	-0.1371	0.0418	-0.0146	0.0718	0.1827	-0.0425
YI FLR	-0.0453	-0.0339	-0.0400	0.0565	0.1153	-0.0129	-0.1059	-0.1889	-0.1721	-0.0946
INFLWR	-0.0153	0.0129	-0.0702	0.0285	0.0879	-0.0846	-0.1039	-0.0340	-0.0857	0.2221
LRNFR	-0.0499	-0.0006	0.0560	-0.0142	-0.0853	0.0607	-0.0318	0.0783	0.1594	-0.0290
ALFLR	0.0227	-0.0334	-0.0370	0.0624	0.0595	-0.0346	0.0669	0.1493	0.1511	-0.1029
LEPFLR	-0.0280	-0.0083	-0.0592	-0.0958	-0.0430	0.0849	0.0112	-0.0009	0.0423	0.0136

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VARIABLE	NSECV	PINSV	PTLLN	INTLN	MSR	IBRL	GBRL	IBRW	QCAR	PMKL
BAOHLN	0.0871	-0.0787	0.1703	0.1724	0.1802	0.0914	0.1049	0.0395	0.1168	0.1982
INTNDLN	0.0277	0.0594	0.2333	0.145	0.1133	-0.0268	0.0879	0.0504	0.1906	0.0777
INDOBL	0.1951	0.0204	0.0287	0.67	-0.0273	0.0807	0.1368	-0.1950	0.1313	-0.0323
DICLN	0.5720	0.1730	0.5626	36	-0.0597	-0.0340	0.1017	-0.0425	0.2184	0.0705
INDOBL	0.3629	0.1339	0.1635	0.34	-0.0359	0.1075	-0.0237	0.1051	0.0949	0.0857
IPYAN	-0.1303	-0.0363	-0.2835	0.6819	0.1766	-0.0684	-0.0281	-0.0031	0.0276	0.2180
IPYAN	-0.0128	0.0628	0.0520	-0.1249	-0.0470	0.0976	0.0696	0.1091	0.0949	-0.1470
RECV	0.0996	0.0670	-0.1133	0.0811	-0.0120	-0.0760	-0.2760	0.1386	0.0774	0.1539
SPS	0.2710	0.1057	0.1603	0.0249	0.0636	0.3820	0.2953	0.0288	0.1687	0.0089
VINS	0.2086	-0.1276	-0.0594	0.0223	0.1244	0.0324	-0.0402	-0.0297	-0.1312	0.0787
RECV	1.0000	-0.0957	0.3736	0.0227	0.1194	0.1905	0.0330	0.1195	0.0312	0.1539
INSV	-0.0937	1.0000	0.0336	0.1012	-0.0285	-0.0391	-0.0351	0.0654	0.0242	-0.0281
ICLN	0.3736	0.0336	1.0000	-0.0599	0.0424	0.0717	0.0918	-0.369	0.1638	0.0260
INTLN	0.0027	0.1012	-0.0599	1.0000	0.1491	0.1708	0.1529	0.2120	0.1712	0.2012
IBRL	0.1194	-0.0285	0.0424	0.1491	1.0000	0.5206	0.2505	0.2198	0.2899	0.2513
IBRW	0.1749	-0.0391	0.0717	0.1708	0.5206	1.0000	0.6177	0.2975	0.4171	0.2212
QCAR	0.1195	-0.0351	0.0918	0.1929	0.3505	0.6177	1.0000	0.7895	0.2775	0.4151
PMKL	0.0330	0.0654	-0.0629	0.2120	0.3198	0.4175	0.2995	1.0000	0.3949	0.2884
IBRW	0.1272	0.0342	0.1638	0.1712	0.2869	0.4171	0.6775	0.3949	1.0000	0.2906
IBRL	0.1519	-0.0281	0.0280	0.2012	0.2513	0.3212	0.4151	0.2884	0.2936	1.0000
IBRW	0.2487	-0.0549	0.1543	0.1874	0.2298	0.3801	0.2101	0.2701	0.1404	0.3802
IBRW	0.0939	-0.0139	-0.1171	0.0760	0.4416	0.4752	0.4027	0.1925	0.2809	0.3538
IBRW	0.1254	-0.0432	0.0364	0.0632	0.1699	0.1561	0.2488	0.1342	0.2956	0.3912
IBRW	0.0605	0.2023	0.1307	0.1769	0.0746	-0.0765	-0.0744	0.1622	0.0599	0.0095
IBRW	0.0916	0.0565	0.0660	0.0811	0.1472	0.3412	0.1328	0.4055	0.2382	0.2905
IBRW	0.1035	0.0122	0.0200	0.0598	0.3831	0.4560	0.3934	0.1676	0.2874	0.3976
IBRW	-0.0119	0.0024	0.0093	0.1668	0.1901	0.2675	0.3801	0.0925	0.2022	0.2821
IBRW	0.1720	-0.0207	0.0552	0.2001	0.5362	0.7176	0.5810	0.3977	0.3712	0.2418
IBRW	0.0071	0.0460	-0.0031	0.1534	0.0736	0.0598	0.1273	0.0082	0.1016	0.1604
IBRW	0.0512	-0.1268	0.0108	0.2280	0.3450	0.5065	0.4025	0.2672	0.2614	0.4131
IBRW	0.0306	0.1745	0.0002	0.1110	0.3478	0.0605	-0.0089	0.3504	0.1164	0.1902
IBRW	0.0193	-0.0541	-0.0569	0.1768	0.0189	0.4269	0.2969	0.2117	0.1040	0.0506
IBRW	0.1554	0.0005	0.1861	0.2445	0.1803	0.4302	0.3254	0.2524	0.258	0.2899
IBRW	0.1746	0.1073	0.1105	0.1930	0.1461	0.3637	0.2034	0.3733	0.1698	0.1580
IBRW	0.2816	0.0503	0.0846	0.0843	0.1815	0.0948	-0.0351	-0.0223	-0.1451	0.1451
IBRW	0.2408	0.1247	0.0195	-0.0172	0.0245	0.0475	0.0666	0.0184	0.0326	0.0426
IBRW	0.2152	-0.0010	0.3977	-0.1978	0.0006	0.1812	0.1770	-0.1545	0.1208	-0.0638
IBRW	0.0505	0.0887	0.0517	-0.0006	0.1935	-0.3662	-0.1841	-0.2519	-0.2611	-0.2611
IBRW	0.1329	-0.0805	0.1395	0.0126	0.2738	0.6046	0.3948	-0.4282	0.0858	0.1100
IBRW	-0.0642	-0.0513	-0.1066	0.0266	0.0592	0.1677	0.2467	-0.2202	0.2104	0.0721
IBRW	0.1021	-0.0214	-0.0265	-0.1031	0.2592	0.1432	-0.0715	-0.0817	-0.1310	0.1022
IBRW	0.0756	-0.1596	-0.0495	-0.0903	0.0910	0.1590	0.2375	0.0116	0.2044	0.3054
IBRW	-0.0184	0.0077	0.1244	-0.1686	0.1194	0.0715	-0.2469	0.0648	0.0648	0.0575
IBRW	-0.0565	-0.0762	-0.0683	-0.0376	0.1632	0.0644	0.1507	-0.0939	0.1285	0.1707
IBRW	0.0201	-0.0954	0.0439	0.0878	-0.1263	0.2024	0.2087	-0.1706	0.0917	0.0272
IBRW	0.0604	0.0867	-0.0344	-0.0478	-0.3011	-0.4388	-0.4083	-0.2834	-0.1587	-0.2276
IBRW	0.1615	-0.0537	-0.0475	-0.0284	0.1299	0.0793	-0.1434	0.0101	-0.1992	0.0106
IBRW	0.0436	0.0241	0.0626	0.0343	0.3853	0.5223	0.4976	0.2439	0.2889	0.4795
IBRW	0.0302	0.0299	0.0457	-0.1029	0.1482	0.2436	0.1068	0.1878	0.0392	0.0392
IBRW	-0.0736	0.0223	-0.0691	-0.0950	0.7752	0.1332	0.1378	-0.0882	0.0426	0.0204

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VARIABLE	LBRP	HLOR	GORLW	CORLMD	CORTWO	LCTPFA	INFW	INFL	PKGLN	AKHLN
RACLEN	0.1163	0.1138	-0.0108	0.0561	-0.0779	0.0075	0.1207	0.1960	-0.0017	0.0000
INTRDLN	0.1005	0.0907	0.0209	0.1336	-0.0533	-0.0008	-0.0258	0.0279	0.0602	-0.0614
LNWDRN	0.1121	0.1751	0.1200	-0.0366	-0.0307	0.0039	0.1051	0.0270	0.0443	-0.0311
NOLBL	0.1668	-0.0940	0.1472	0.0897	-0.0180	0.0507	0.0229	-0.0038	0.0815	-0.1152
MMOGL	0.0977	-0.1978	0.0851	0.1699	0.0125	0.0100	-0.0780	-0.0231	0.0536	0.1115
APXAN	-0.0557	0.0415	-0.0050	-0.0266	-0.0236	0.0025	0.0139	0.0840	0.0342	0.0365
APXPS	-0.1231	0.0122	0.0378	0.0171	0.0045	0.0178	0.0108	-0.0663	-0.0251	0.0466
BSAN	0.0495	0.0843	-0.2018	0.0113	0.1112	-0.0511	-0.0105	0.0065	-0.0170	0.0699
ESPS	0.1715	0.3485	-0.0229	0.0011	0.0028	0.0321	0.1054	0.0419	-0.1177	0.2217
SVINS	0.0524	-0.0959	-0.0035	0.1318	0.0105	0.0129	-0.1049	0.0199	-0.1714	0.0309
NSECV	0.2987	0.0919	0.1524	0.0605	-0.0916	0.1013	-0.0788	0.1199	0.0111	0.2512
PINSV	-0.0909	0.0139	-0.0432	0.2023	0.0565	-0.0172	0.0024	-0.0107	0.0134	-0.1268
PTLLN	0.1543	0.1171	0.0364	0.1307	0.0680	0.0000	0.0000	0.0000	-0.0111	0.0496
ITLNL	0.1878	0.0760	0.0532	0.1709	0.2481	0.1064	0.0000	0.0000	0.1530	0.2260
NBR	0.2228	0.0418	0.1699	0.0746	0.1072	0.2831	0.1901	0.0362	0.0743	0.3850
BRIL	0.4801	0.4752	0.2561	-0.0565	0.3332	0.2906	0.1405	0.1715	0.0548	0.3055
ORL	0.2101	0.4897	0.2488	-0.0704	0.3328	0.3934	0.3001	0.5010	0.2279	0.4322
IBRW	0.2701	0.1905	0.1342	0.1622	0.4525	0.1676	0.0428	0.3577	0.0006	0.2575
ORUV	0.1808	0.2899	0.2056	0.0999	0.2165	0.2808	0.1000	0.1712	0.1818	0.2271
PKXL	0.3802	0.3338	0.3512	0.0095	0.0986	0.3475	0.2000	0.5448	0.1079	0.3331
LBRP	1.0000	0.2192	0.2196	0.0590	0.3265	0.1552	0.0113	0.3715	0.0913	0.1890
NFLOR	0.2192	1.0000	0.0452	-0.1215	0.1698	0.1750	0.1191	0.4543	-0.0582	0.1310
CORLW	0.2196	0.0452	1.0000	0.0031	0.1450	0.1111	0.4511	0.3719	0.5190	0.0011
CORLMD	0.0590	-0.1215	0.0031	1.0000	0.2863	0.1018	0.1018	0.3101	0.0027	0.0003
CORTWO	0.3265	0.1698	0.1450	0.2863	1.0000	0.0343	0.0171	0.2801	0.0038	0.2246
LCTPFA	0.1552	0.2196	0.1518	0.0590	0.0348	1.0000	0.0113	0.1008	0.0027	0.0000
INFW	0.0113	0.4543	0.3719	0.0027	0.0986	0.0113	1.0000	0.5131	0.1804	0.3111
INFL	0.3715	0.4543	0.3719	0.0027	0.0986	0.0113	0.5131	1.0000	0.0772	0.0170
PKGLN	0.0913	-0.0582	0.0011	0.0003	0.0000	0.0000	0.0000	0.0772	1.0000	0.0000
AKHLN	0.1890	0.1310	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
STHOLD	0.1308	-0.1381	0.0389	0.0212	-0.0705	0.0361	-0.0000	0.0000	0.0000	-0.1370
YADNLR	0.0947	0.0320	0.0486	-0.2224	0.0705	0.1011	0.1106	0.0353	0.0239	0.3061
CRHMD	0.3997	0.1194	0.0972	0.2736	0.7893	-0.0027	0.0000	0.2001	-0.0991	0.0132
CRHMD	0.1933	0.0859	-0.0116	0.0226	0.5520	-0.0017	0.0000	0.1077	0.1998	0.0782
VANDS	0.0081	-0.0073	0.1184	0.0959	-0.0578	0.0701	-0.1005	0.0793	0.0548	0.0205
VANDS	-0.0219	-0.0677	0.1800	0.1069	0.0179	0.0000	-0.1000	0.0000	0.1000	0.1813
SHIL	0.0960	0.0192	0.0388	-0.0745	0.0000	0.0000	0.0000	0.0000	-0.0000	-0.0000
NWOTRO	-0.1297	-0.3320	-0.2823	0.0846	-0.2482	-0.2919	-0.1953	-0.1183	-0.1633	-0.2638
ILBL	0.1182	0.3122	0.0437	-0.1756	0.0191	0.2240	0.1484	0.0070	0.0000	0.2111
ORLW	0.0223	0.1665	-0.0883	-0.1124	0.0028	0.0676	0.0003	0.1524	-0.0016	0.0110
INFLW	0.1201	-0.2208	0.1060	-0.0253	-0.0955	0.1468	0.1293	0.1624	0.0816	0.1788
CORLW	-0.1609	0.1088	0.7999	-0.3897	-0.0471	0.4001	0.2825	0.2825	0.3508	0.1903
CORLMD	-0.1890	0.0314	0.3816	-0.2359	-0.3507	0.2482	0.3759	0.2245	0.6234	0.6234
CORLMD	-0.0002	0.0072	0.4995	-0.4895	-0.1191	0.6077	0.3128	0.3128	0.6234	0.6234
STLLR	0.0334	0.2946	0.0159	-0.1726	0.0759	0.3186	0.0487	0.2999	0.1014	0.2858
TLFLR	-0.2804	-0.2551	0.0048	-0.0658	-0.2820	-0.0157	-0.0522	-0.1771	0.1253	-0.1290
INFLW	0.0825	-0.1526	0.0373	0.0028	-0.0026	0.0550	-0.0008	0.0008	0.0000	0.0000
LNFW	0.2534	0.4182	0.4136	-0.0971	0.3100	0.4445	0.4016	0.5692	0.2843	0.4297
ALFLR	0.2784	0.2534	-0.1592	-0.1544	0.1949	0.1544	0.1544	0.1132	0.1132	0.1132
LCTPFLR	-0.1601	0.1020	0.0106	-0.0615	-0.1932	0.7283	0.2293	0.3219	0.1896	0.0655

CANONICAL DISCRIMINANT ANALYSIS
POOLED WITHIN-CLASS CORRELATION MATRIX

VARIABLE	STNKL0L	VACHX0LH	CRMOXD	CRMOXD	VANGS	VANGB	SHIHL	KHMOFHD	IDLWR	COLWR
RACHLEN	0.1107	-0.0692	0.0419	0.0514	0.1157	-0.1822	-0.0865	0.5889	0.0385	-0.0231
INTNDLN	0.2929	-0.1942	0.0531	0.0118	0.1171	-0.1062	0.0394	0.3566	-0.0830	-0.1339
LNMDRI	-0.0701	0.0699	0.0007	-0.0339	-0.3232	-0.2151	0.7969	-0.0282	0.1802	-0.0475
XOLNLI	0.0997	-0.1246	0.0733	0.0940	0.0546	0.1771	0.7971	0.1247	-0.0253	-0.1070
MMNDL	0.1785	-0.1615	0.0610	0.1167	0.2307	0.3503	-0.4367	0.1286	-0.2035	-0.1383
APKAR	-0.0142	0.0144	-0.1243	-0.0747	0.2436	-0.0290	-0.3073	-0.1050	-0.0225	0.0683
APKPS	0.0828	-0.0128	0.0833	0.1382	-0.1058	-0.0131	-0.0861	-0.0415	-0.0607	0.0189
BSAN	-0.0073	0.0993	0.1759	0.1251	0.2237	0.2248	-0.2041	-0.1540	0.1457	0.0844
BSPS	-0.0840	0.0275	0.1426	0.1476	0.0705	0.2656	0.3103	-0.1823	0.2561	0.1009
SVINS	0.0832	-0.0064	-0.0522	0.0229	0.4301	0.1909	-0.3524	0.0461	0.0668	0.2257
NEQCV	0.0206	0.0193	0.1554	0.1788	0.2876	0.2408	0.2152	0.0585	0.1328	-0.0642
INBY	0.1465	-0.0547	0.0046	0.1072	0.0543	0.1247	-0.0010	-0.0987	-0.0839	-0.0513
FTLLN	0.0002	-0.0969	0.1861	0.1105	-0.0846	0.0395	0.3977	0.0537	0.1395	-0.1066
INTLN	0.1110	0.1768	0.2485	0.1930	0.0643	-0.0173	-0.1578	-0.0068	0.0186	0.0256
NR	0.1878	0.0189	0.1803	0.1461	0.1415	0.0245	0.0006	-0.1935	0.2716	0.0592
IBRL	0.0609	0.4259	0.4302	0.3637	0.0248	0.0875	0.1872	-0.3652	0.6046	0.1677
OBRL	-0.0689	0.2904	0.3043	0.2034	-0.0351	0.0666	0.1770	-0.3943	0.3943	0.2467
IBRM	0.1504	0.2117	0.5094	0.1733	-0.0223	0.0181	-0.1545	-0.1581	-0.8282	-0.2202
ORRM	0.1164	0.1040	0.2528	0.1698	-0.0416	0.0326	0.1208	-0.2519	0.0858	-0.2104
PHKL	0.1902	0.0530	0.2895	0.1580	0.1451	0.0426	-0.0638	-0.2631	0.1100	0.0751
LBPR	0.1304	0.0847	0.3997	0.1934	0.0041	-0.0219	0.0980	-0.1297	0.1142	0.0223
IFLOR	-0.1381	0.2320	0.1191	0.0859	-0.0873	-0.0477	0.2750	-0.3320	0.3122	0.1665
CORLNL	0.2089	0.0586	0.0572	0.0116	0.1184	0.1400	-0.0192	-0.2523	0.0437	-0.0883
CORLMD	0.2212	-0.2224	0.2736	0.4226	0.0959	0.1049	-0.0745	0.0540	-0.1746	-0.1124
CORLMD	-0.0705	0.2794	0.7895	0.5520	-0.0578	0.0119	-0.0388	-0.3042	0.0191	0.0428
LCPTA	-0.0761	0.1907	-0.0957	-0.0948	0.0753	0.0243	0.0563	-0.2979	0.0590	0.0876
INFM	-0.1959	0.3149	-0.0448	-0.0475	-0.1065	-0.0760	0.0745	-0.3923	0.1834	0.0033
INFL	0.0983	0.3583	0.2691	0.1577	0.0793	0.0644	0.0744	-0.3383	0.3530	0.0154
FRCLN	0.0787	0.0539	-0.0951	-0.1958	0.0548	0.1000	-0.0274	-0.1613	0.0432	-0.0016
AMKLR	0.1329	0.3061	0.2131	0.0780	0.0365	0.1213	-0.0040	-0.2638	0.2581	0.1018
STNKL0L	1.0000	-0.2274	0.1710	0.2468	0.1298	0.0985	-0.1216	0.1097	-0.2176	0.0905
VACHX0LH	-0.2274	1.0000	0.0597	-0.1075	-0.1075	-0.2148	0.0498	-0.3502	0.2345	0.1555
CRMOXD	0.1710	0.1554	1.0000	0.5978	-0.0552	-0.0270	0.0212	-0.1938	-0.2851	-0.0046
CRMOXD	0.2468	0.0597	0.5978	1.0000	-0.0082	0.0311	0.0466	-0.1218	0.0675	0.0109
VANGS	0.1298	-0.1075	-0.0552	-0.0082	1.0000	0.2940	-0.2834	0.1066	0.0313	0.0426
VANGB	-0.0985	-0.2148	-0.0270	-0.0311	0.2940	1.0000	-0.0789	-0.0771	0.0690	0.0178
SHIHL	-0.1216	0.0498	0.0212	0.0466	-0.2834	-0.0789	1.0000	-0.1284	0.1464	-0.0072
KHMOFHD	0.1097	-0.3502	-0.1938	-0.1234	0.1066	-0.0771	-0.1284	1.0000	-0.2219	-0.0959
IDLWR	-0.2176	0.2345	-0.0951	0.0575	0.0313	0.0690	0.1464	-0.2219	1.0000	0.0574
COLWR	-0.0905	0.1555	-0.0046	0.0106	0.0426	0.0778	0.0072	-0.0959	0.3574	1.0000
INVLWR	0.1971	-0.2510	-0.0477	-0.0532	0.1187	0.1271	-0.0102	0.1738	0.2217	0.1232
COLLWR	0.0306	0.1779	-0.0831	-0.2413	0.0319	0.0474	0.0474	-0.2507	0.1886	-0.0168
COLLWR	0.0023	0.0198	-0.7516	-0.4462	0.1017	0.0993	-0.0069	-0.0633	0.0261	0.0249
CORLMD	-0.0537	0.1009	-0.3893	-0.7402	0.0439	0.0677	-0.0290	-0.1032	0.1807	0.0114
STLLR	-0.4299	-0.3168	-0.1118	-0.2104	-0.0696	-0.0646	-0.1154	-0.1978	0.3195	0.0614
TFLPLR	-0.1733	-0.0577	-0.3382	-0.2894	0.1103	-0.0025	-0.1503	-0.2274	-0.2333	0.0239
INFLWR	0.2267	-0.2156	0.1130	0.0887	0.1314	0.1169	-0.0571	0.2977	0.0450	0.1731
LNFLWR	0.0152	0.2544	0.2431	0.1263	-0.0211	-0.0057	0.1492	-0.6885	0.3104	0.1798
ALFLWR	0.0627	0.0583	0.2902	0.2328	-0.0170	0.0134	0.0239	0.0325	0.0698	0.0003
LGFFGLR	-0.1634	0.0682	-0.3796	-0.2552	0.0193	-0.0428	-0.0401	-0.1449	0.1970	0.0999

CANONICAL DISCRIMINANT ANALYSIS
POOLED WITHIN-CLASS CORRELATION MATRIX

VARIABLE	INVLN	ORLLNR	CORLNR	COELLNR	STLLNR	TFLPLR	INFLNR	LRLNFR	ALFLNR	LOPFLR
RACHLEN	-0.0812	-0.0354	0.0035	-0.0064	0.0005	-0.0452	-0.0153	-0.0499	0.1067	-0.0280
INTROLN	-0.0527	-0.0629	-0.0525	-0.0812	-0.1939	-0.0339	0.0129	-0.0006	-0.0184	-0.0503
INDRLL	0.0205	-0.1866	0.0338	0.0806	0.0277	-0.0005	0.0702	0.0960	-0.0309	-0.0592
NOILNL	0.0858	0.0676	0.0032	-0.0301	-0.0933	0.0565	0.0285	-0.0142	0.0624	-0.0958
WMDL	0.0618	-0.0652	-0.0792	-0.0995	-0.1371	0.1153	0.0895	-0.0882	0.0695	-0.0436
APKAN	0.0520	0.0167	0.0992	0.0507	0.0818	0.0159	-0.0846	-0.0807	-0.0443	0.0486
APKPS	-0.1544	0.0033	-0.0161	-0.0535	-0.0166	-0.1059	-0.1039	-0.0318	0.0689	0.0112
BSAN	-0.1047	-0.2322	-0.1605	-0.1517	0.0718	-0.1289	-0.0540	0.0783	0.1453	0.0009
BSFS	-0.0510	-0.0335	-0.0070	-0.0376	0.1827	-0.1721	-0.0877	0.1594	0.1511	0.0923
SVINS	0.1008	-0.0865	0.0804	-0.0090	-0.0425	-0.0924	0.2221	-0.0690	0.1283	0.0136
RECEV	0.1091	0.0755	-0.0184	-0.0566	0.2501	0.0684	0.1615	0.0432	0.0027	-0.0736
PIHNV	0.0214	-0.1556	0.0077	-0.0762	-0.0954	0.0881	-0.0537	0.0281	-0.0999	0.0293
PTLLN	-0.0268	-0.0099	-0.1328	-0.0582	0.0439	-0.0031	-0.0475	0.0626	-0.0957	-0.0491
INTLN	-0.0703	-0.0502	-0.1096	-0.0376	0.0528	-0.0479	-0.0284	0.0383	-0.1009	-0.0950
NBR	0.2292	0.0910	0.1194	0.1632	-0.1263	-0.3041	0.1295	0.3853	0.1482	0.1752
IBRL	0.1852	0.1550	-0.0015	0.0844	0.0054	-0.4488	0.0753	0.2573	0.2816	0.1132
ORRL	-0.0915	0.2375	0.0797	0.1907	0.2087	-0.4083	-0.1434	0.4916	0.1058	0.1378
BRW	-0.0967	0.0116	-0.2469	-0.0439	-0.7085	-0.3234	0.0701	0.2439	0.1878	-0.0682
ORRW	-0.1310	0.2004	0.0648	0.1285	0.0917	-0.3487	-0.1992	0.4289	0.0732	0.0426
PKKL	0.1022	0.0054	0.0575	0.1707	0.0272	-0.2276	0.0106	0.4795	0.1491	0.0204
LZRP	0.1201	0.1369	-0.1490	-0.0092	0.0334	-0.2804	0.0825	0.2454	0.2784	-0.1401
NTLOR	-0.2208	0.1088	0.0314	0.0672	0.2946	-0.2551	-0.3526	0.0182	0.2534	0.1284
CORLLN	0.1080	0.1790	0.3816	0.4595	0.0159	0.0048	-0.0373	0.4134	-0.1502	0.0106
CORLND	-0.0223	-0.3807	-0.2399	-0.3593	-0.1705	0.0529	0.0024	-0.0271	-0.1544	-0.0615
CORLND	-0.0965	-0.0471	-0.5507	-0.3151	0.0789	-0.0520	-0.0026	0.3280	0.1549	-0.1932
LCTFFA	0.1402	0.0241	0.6482	0.6477	0.3186	-0.1157	-0.0550	0.4405	-0.1799	0.7283
INFW	-0.3292	0.2655	0.3755	0.3734	0.0487	-0.0522	-0.0099	0.4076	-0.0537	0.3295
INFW	0.1623	0.2826	0.2505	0.3728	0.2999	-0.1771	0.0568	0.5682	0.1352	0.3219
PKLNL	0.0076	0.1529	0.1284	0.5163	0.1038	0.1760	0.0834	0.2642	-0.7990	0.1890
AKLNL	0.1168	0.4892	0.2932	0.8293	0.2458	-0.1390	0.0020	0.4527	0.0686	0.0655
STRLOL	0.1971	0.0306	0.0025	0.0517	-0.2899	-0.2467	0.0152	0.0072	0.0052	-0.1574
VACKLNL	-0.2310	0.1779	0.0198	0.1009	0.3169	-0.2577	-0.2156	0.2544	0.0603	0.0622
CORLND	-0.0477	-0.0881	-0.7516	-0.3893	-0.1118	-0.3982	0.1130	0.2431	0.2902	-0.3796
CORLND	-0.0512	-0.2017	-0.42	0.7002	0.2104	-0.2954	0.0887	0.1263	0.2588	0.1482
VANGS	0.1187	0.0319	0.7	0.0439	-0.0695	0.1103	0.1314	-0.0271	-0.0730	0.0193
VANGS	0.1121	0.0409	0.0493	0.0677	-0.0686	-0.0025	0.1759	-0.0057	0.0134	-0.0428
SHILNL	-0.0105	0.0474	-0.0089	-0.0200	0.1154	-0.1903	0.0971	0.1592	0.0539	-0.0401
WMDPND	0.1738	-0.2907	-0.0633	0.1032	-0.1978	0.2974	0.2974	-0.5885	0.0325	-0.1449
DLNR	0.2617	0.1485	0.2061	0.1277	0.1190	-0.2143	0.0450	0.1108	0.0698	0.1970
DLNR	0.1332	-0.0168	0.0242	0.0114	0.0614	0.0239	0.1773	0.1198	0.0003	0.0999
INVLNR	1.0000	0.0994	0.1165	0.1380	-0.1690	0.0582	0.6977	0.0374	0.0040	0.0211
ORLLNR	0.0989	1.0000	0.8360	0.5444	0.1088	-0.0324	-0.0178	0.3855	-0.0283	0.0500
CORLLNR	0.1165	0.4360	1.0000	0.7100	0.2087	0.1675	-0.1275	0.1314	-0.2973	0.5281
CORLLNR	-0.1380	0.5444	0.7100	1.0000	0.2947	0.1328	0.0864	0.2967	-0.2591	0.4182
STLLNR	-0.1690	0.1088	0.2089	0.2947	1.0000	0.1263	-0.2335	0.1860	-0.0251	0.3362
7FLPLR	0.0502	-0.0324	0.1875	0.1328	0.1283	1.0000	0.1440	-0.1559	-0.2755	0.1908
INFLNR	0.0502	-0.0324	0.1875	0.1328	0.1283	1.0000	0.1440	-0.1559	-0.2755	0.1908
LRLNFR	0.0374	0.3855	0.1314	0.2067	0.1860	-0.1659	0.0402	1.0000	0.0357	0.1603
ALFLNR	0.0340	-0.0283	-0.2973	-0.2931	-0.0701	-0.2755	0.1182	0.0357	1.0000	-0.2689
LOPFLR	0.0213	0.0000	0.5381	0.1553	0.3352	0.1808	0.1182	0.1603	-0.2689	1.0000

CANONICAL DISCRIMINANT ANALYSIS
MAHALANOBIS DISTANCES BETWEEN CLASSES

SPECIES	DISCOLOR	TRANSVAA	UNIFLORA
DISCOLOR		8.2961	8.7085
TRANSVAA	8.2961		6.3906
UNIFLORA	8.7085	6.3906	

F STATISTICS, $NDF=50$ $DDF=85$

SPECIES	DISCOLOR	TRANSVAA	UNIFLORA
DISCOLOR		2.37733	2.61956
TRANSVAA	2.37733		4.66305
UNIFLORA	2.61956	4.66305	

PROB > MAHALANOBIS DISTANCE

SPECIES	DISCOLOR	TRANSVAA	UNIFLORA
DISCOLOR		0.0002	0.0001
TRANSVAA	0.0002		0.0001
UNIFLORA	0.0001	0.0001	

	CANONICAL CORRELATION	ADJUSTED CANONICAL CORRELATION	APPROX STANDARD ERROR	SQUARED CANONICAL CORRELATION	EIGENVALUE	EIGENVALUES OF $INV(E)^{1/2}H = CANRSG/(1-CANRSG)$	DIFFERENCE	PROPORTION	CUMULATIVE
1	0.961733	0.947886	0.006437	0.929230	12.3209	9.5950	0.8188		0.8188
2	0.895341	0.801467	0.023014	0.751508	2.7259		0.1812		1.0000

TESTS OF H_0 : THE CANONICAL CORRELATION IN THE CURRENT ROW AND ALL THAT FOLLOW ARE ZERO

	LIKELIHOOD RATIO	F	NUM DF	DEN DF	PR > F
1	0.02014816	10.2765	100	170	0.0001
2	0.26839171	4.7842	49	86	0.0001

MULTIVARIATE TEST STATISTICS AND F APPROXIMATIONS
 $S=2$ $M=23.5$ $N=62$

STATISTIC	VALUE	F	NUM DF	DEN DF	PR > F
WILKS' LAMBDA	0.02014816	10.277	100	170	0.0001
PILLAI'S TRACE	1.656538	9.296	100	172	0.0001

NOTE: F STATISTIC FOR H_0 'S GREATEST ROOT IS AN UPPER BOUND
F STATISTIC FOR WILKS' LAMBDA IS EXACT

CANONICAL DISCRIMINANT ANALYSIS
MULTIVARIATE TEST STATISTICS AND F APPROXIMATIONS

STATISTIC	VALUE	F	NUM DF	DEN DF	PR > F
HOTELLING-LAWLEY TRACE	15.0468	12.639	100	768	0.0001
ROY'S GREATEST ROOT	12.3209	21.192	50	86	0.0001

NOTE: F STATISTIC FOR ROY'S GREATEST ROOT IS AN UPPER BOUND
F STATISTIC FOR WILKS' LAMBDA IS EXACT

CANONICAL DISCRIMINANT ANALYSIS

TOTAL CANONICAL STRUCTURE

	CAN1	CAN2
RACHEN	-0.1381	0.2854
INTRDLN	0.1191	0.2205
CANRL	-0.3149	0.2356
KXLLN	-0.4616	0.2287
YHHL	-0.1697	0.0222
APKAN	0.1194	-0.0323
APKPS	0.1065	0.1136
SEM	0.2062	-0.0839
BSFS	0.1372	0.0016
SVMS	-0.1717	0.0163
RSECV	-0.2520	-0.1140
FINRV	-0.3885	0.0429
PTLIN	0.2167	-0.1645
INTLN	-0.0667	0.2365
NBR	0.0893	-0.1155
IBL	0.0636	0.0376
ORAC	0.0720	0.0948
LDN	0.2455	0.1395
ORRN	0.0035	0.1599
PKL	0.0317	-0.0507
LBPF	0.7217	0.0235
NFLDR	0.0433	0.1146
CORLLM	0.6168	-0.1880
CORLMD	0.2680	-0.0685
CORLMD	0.5294	-0.1241
LCFFA	0.7270	0.0258
IRFL	0.8022	0.2657
IRFL	0.8205	0.0459
PROLN	0.7408	-0.1082
AMLN	0.6696	-0.0746
STROLOL	0.2934	-0.1924
VACRLN	0.0764	0.3611
CRHMD	0.2963	-0.1224
ORHMD	0.1907	-0.1379
VAMS	-0.0844	0.1564
VAMS	0.3432	-0.1571
SHNL	-0.2444	0.2115
NRDFFD	-0.0666	-0.0971
ILSR	0.7169	-0.0113
GBLR	0.0293	-0.2247
IRVLR	0.3091	-0.5035
CRFL	0.4467	-0.1423
CRFL	0.2562	0.0493
CRFL	0.5945	0.0372
SLOR	0.2705	0.2491
TLVLR	-0.0210	-0.1159
IRVLR	-0.4347	-0.1939
IRVLR	0.7036	0.0305
ALFLR	-0.4786	0.0566
LCFFLR	0.2467	0.2905

CANONICAL DISCRIMINANT ANALYSIS
BETWEEN CANONICAL STRUCTURE

	CAN1	CAN2
BACHLEN	-0.8670	0.8842
INTNDLN	0.6052	0.7961
LANCRL	-0.8082	0.5001
MXLAL	-0.8083	0.4183
HGGL	-0.9953	0.1156
APKAN	0.9723	-0.2336
APKPS	0.7255	0.6882
BSAN	0.9970	-0.2899
BSPS	0.9999	0.0106
SVHNS	-0.9965	0.0032
NSLCV	-0.9268	-0.3755
PINSV	-0.9953	0.0960
PTLLN	0.8086	-0.5595
INTLN	-0.3023	0.9532
ABR	0.9934	-0.1148
IBRL	0.9992	0.0398
ORAL	0.9963	0.0862
GOV	0.9751	-0.2217
ORML	0.9847	0.1742
PHIL	0.9985	-0.0940
LRP	0.9990	0.0291
NFLOR	0.9528	0.1199
CORLLN	0.8707	-0.4882
CORLMD	0.9751	-0.2217
CORFMD	0.9850	-0.1787
LGTPFA	0.9995	0.0315
INFU	0.9590	0.2645
HEFL	0.9988	0.0407
FMH4	0.9917	-0.1248
MXLNL	0.9951	-0.4516
STHLOL	0.8638	-0.5016
VACHOLN	0.8297	0.9713
CRHGH	0.9839	-0.1780
CRHGH	0.8420	-0.5395
VANGS	-0.5365	0.8499
VANGS	0.9312	-0.3646
SHJNL	-0.7925	0.6099
WANDFMD	-0.9951	-0.0991
IBLMR	0.9999	-0.0172
ORLMR	0.7241	-0.6899
IRYLMR	-0.5461	-0.6203
CORLLMR	0.8263	-0.5632
CORLMR	0.9878	0.1592
CORLMR	0.9985	0.0556
STLLMR	0.7736	0.6336
TEFLR	-0.8922	-0.1243
INFLMR	-0.6576	-0.7534
LNFMH	0.9994	0.0385
ALFMR	-0.9843	0.1762
LCPTCLR	0.6906	0.7232

CANONICAL DISCRIMINANT ANALYSIS
WITHIN CANONICAL STRUCTURE

	CAK1	CAK2
BACHLEN	-0.0382	0.1538
INTNDLN	0.0420	0.1176
LHWDR	-0.0927	0.1339
KOLN	-0.1369	0.1340
KOOL	-0.0671	0.0117
APKAN	0.0320	-0.0169
APKPS	0.0295	0.0295
BSAN	0.0696	-0.0448
BSI	0.1170	0.0009
SVINS	-0.0483	0.0086
NSECV	-0.0715	-0.0616
PIHGV	-0.1149	0.0238
PTLLN	0.0613	-0.0680
INTLN	-0.0187	0.1254
ABR	0.0700	-0.1177
IRRL	0.3988	0.0337
ORRL	0.4425	0.0814
ORW	0.1773	0.0957
ORW	0.3552	0.1336
PKL	0.1632	-0.0440
LBRP	0.2748	0.0170
NFLOR	0.4007	0.1029
CORLLN	0.2304	-0.2740
CORLWO	0.0761	-0.0366
CORTWO	0.2106	-0.0875
LCPTFA	0.2788	0.0187
IRFW	0.3700	0.2326
IRFL	0.3608	0.0389
FMKLN	0.2918	-0.0806
APKLN	0.2806	-0.0507
STOKLOL	0.0850	-0.1054
VACKLNH	0.0221	0.1991
COKOUB	0.2021	-0.0781
CORWMD	0.0525	-0.0729
VANGS	-0.0245	0.0683
VANGB	0.1006	-0.0837
SHIRL	-0.0707	0.1147
WMDTWO	-0.1350	-0.0021
IGLHR	0.2862	-0.0105
OGAR	0.2597	-0.1289
IVVIR	-0.0994	-0.3061
ORLLHR	0.1433	-0.2076
CORLHR	0.0725	0.0243
CORLHR	0.1987	0.0535
STLLHR	0.0767	0.1370
TLPLR	-0.3714	-0.0991
INFLWR	-0.1543	-0.3797
LRFLHR	0.3085	0.0533
ALFLR	-0.1284	0.0566
LCFFLR	0.0720	0.1602

CANONICAL DISCRIMINANT ANALYSIS
STANDARDIZED CANONICAL COEFFICIENTS

	CAN1	CAN2
RACHLN	0.2613	0.5253
IKTADLN	0.0919	0.1960
LNVDRL	-0.4622	0.4423
KXLR	0.2806	0.1751
PKKOL	0.0886	0.4436
AFKAN	-0.3922	-0.0016
APKPS	-0.0071	0.4413
BSAW	-0.0896	-0.4277
SGPS	-0.2561	-0.2804
SVIWS	-0.3409	0.1800
NSECV	-0.0095	-0.2838
PIREV	-0.1678	-0.1933
PTLLN	0.0948	-0.5498
INTLN	-0.4478	0.0359
NR	0.6431	-0.2353
IBRL	-0.2360	-0.7606
OBRL	0.1196	-0.2183
IBRV	0.4526	3.1525
ODRW	-0.0494	-0.1240
PKOL	-0.0216	-0.2716
LBPP	0.2371	0.3602
NLOR	0.3170	0.3999
CORLIN	-1.8033	0.5356
CORLWD	1.2409	-0.2717
CORTWD	0.0109	-0.4751
LCTPFA	-2.2607	-2.8902
INEW	0.7575	-0.3111
IRFL	-0.3123	0.2066
PKKLN	0.4779	0.9023
AKKLN	-0.1942	0.0101
STKKLOL	0.3985	-0.3002
VACHLN	-0.1960	0.0947
CRHND	0.0366	1.9861
CRHND	0.7741	0.7880
VANGS	0.1450	0.2566
VANGS	-0.0875	0.1065
SHNL	-0.2308	0.3437
NKOFND	-1.9472	-1.1976
IBLR	0.9509	4.1057
OLAR	0.1000	-0.2725
IKVLR	-0.1072	0.1217
GRLLWR	2.0208	-1.7639
COLWR	-0.0844	1.0747
CORLWR	1.6754	1.4595
STLLBR	0.4334	-0.1075
ITLPLR	-0.3791	0.2453
INFLWR	0.3585	-0.0214
LNFLWR	-1.0344	0.0371
ALFLWR	-0.0713	0.6578
LOFLWR	0.6996	1.3511

CANONICAL DISCRIMINANT ANALYSIS

RAW CANONICAL COEFFICIENTS

	CAN1	CAN2
RACNLEN	0.261345003	0.525328715
INTSOLN	0.091931103	0.190209783
LMVORL	-0.460994784	0.440795083
MLNL	0.279538623	0.174493963
MMOGL	0.088366683	0.448293112
APKAN	-0.394116946	-0.032007179
APFPE	-0.087598392	0.443771406
BEAN	-0.089996268	-0.420946000
BSPB	-0.257951084	-0.288432264
SVTIES	-0.381686081	0.14008670
NSGLV	-0.004473276	-0.282838046
P1BV	0.187044608	-0.192478467
P1LLN	0.045379357	-0.556749023
INTLN	-0.446129145	0.039732188
NBR	0.64644484	-0.94496695
IBRL	-0.23686461	-4.777896361
DBRL	0.180763750	-0.219756883
IBRN	0.451003033	3.141071650
DBRN	-0.049949665	-0.124308179
PXOL	-0.021816840	-0.276230253
LBRF	0.200519528	0.365401498
NFLOR	0.318626869	0.401872757
CDRLND	-1.78677329	0.536672940
CORLND	1.287038766	-0.909022527
CORTND	0.010917937	-0.474143237
LCTPPA	-2.256642628	-2.885066703
INFW	0.786150840	-0.310955581
INFL	-0.212305205	0.206671803
FKOLN	0.676878947	0.900422894
AHOLN	-0.193825734	-0.010051987
STKOLN	0.397149843	-0.299131156
VACNGLN	-0.195325984	0.094399732
CRNND	0.636601100	1.59509279
CRNND	0.771258623	0.785109252
VANDS	0.144449072	0.570488901
VANOB	-0.087223333	0.106206589
SHINL	-0.230098137	0.342772300
INNOTHD	-1.947236673	-1.10953526
IBLMR	0.957733621	4.151150177
DBLMR	0.100212639	-0.273198490
INVLNR	-0.166575602	0.220942145
CRLLMR	2.013629493	-1.757626330
CORLMR	-0.068073716	1.070850232
CORLMR	1.678072911	1.452635127
STLLMR	0.433411200	-0.107471440
THLLMR	-0.37409518	0.205611723
INFLMR	0.256562803	-0.119955680
LMFLMR	-1.038412512	0.037052560
ALFLMR	-0.074106129	0.655279715
LCPFLA	0.693389014	1.346791403

APPENDIX VA

Summary of Principal Components Analysis
for 150 Female OTUs

IDENTIFICATION: CHARACTER CORRELATION MATRIX

PAUSE 1

	RACMLN	INNDLN	NDR	IBRM	OBRW	INMKN	PMAL	LBRP	INFL	INFW
RACMLN	1.000									
NRDLN	0.154	1.000								
IBRM	0.171	0.133	1.000							
OBRW	0.057	0.133	0.633	1.000						
INMKN	0.097	0.177	0.819	0.606	1.000					
PMAL	0.005	-0.033	0.552	0.166	0.587	1.000				
LBRP	-0.002	0.016	0.896	0.232	0.503	0.552	1.000			
INFL	0.007	0.005	0.815	0.354	0.676	0.860	0.639	1.000		
INFW	0.046	-0.006	0.689	0.328	0.527	0.802	0.603	0.487	1.000	
VARCS	0.019	0.058	0.118	0.007	-0.022	0.061	-0.008	0.095	0.052	1.000
VANOB	-0.067	-0.071	0.315	0.006	0.148	0.249	0.177	0.143	0.319	0.232
STINL	-0.007	-0.089	-0.129	0.000	-0.118	-0.181	-0.178	-0.094	-0.166	-0.234
INNDLN	-0.086	-0.176	-0.294	-0.118	-0.269	-0.388	-0.260	-0.215	-0.355	-0.381
KOLNL	0.085	0.040	-0.500	-0.214	-0.107	-0.519	-0.450	-0.375	-0.508	-0.508
KANOL	0.156	0.221	-0.192	-0.029	-0.131	-0.115	-0.177	-0.139	-0.148	-0.117
APKKN	0.027	0.131	0.329	0.220	0.179	0.304	0.206	0.154	0.278	0.324
APKPS	-0.018	-0.030	-0.234	-0.129	-0.209	-0.763	-0.225	-0.153	-0.277	-0.258
SSAN	0.063	0.104	0.322	0.159	0.303	0.317	0.251	0.276	0.411	0.381
SSPS	0.031	0.050	0.258	0.097	0.226	0.322	0.249	0.274	0.324	0.309
SVIRS	0.044	0.067	0.180	-0.014	0.034	0.092	0.064	0.020	0.076	0.126
NSECV	0.008	-0.021	-0.241	-0.198	-0.325	-0.358	-0.264	-0.161	-0.305	-0.282
PISEV	0.171	0.234	-0.218	-0.025	-0.186	-0.282	-0.192	-0.212	-0.290	-0.287
PTLLN	0.060	0.025	0.192	0.023	0.165	0.139	0.025	0.086	0.270	0.202
INTLN	0.162	0.099	-0.046	0.091	-0.060	0.011	-0.047	0.089	-0.026	-0.011
NEFLR	0.010	0.053	0.611	0.353	0.663	0.859	0.566	0.577	0.782	0.770
CORLLN	0.052	0.110	0.134	0.067	0.081	0.277	0.191	0.147	0.386	0.309
CORLMD	-0.131	-0.072	0.141	0.189	0.161	0.142	0.165	0.052	0.175	0.205
STKROL	0.041	0.003	0.070	0.105	0.091	0.044	-0.132	0.133	0.087	0.087
STKROL	0.002	0.160	0.342	0.137	0.144	0.325	0.237	0.206	0.422	0.343
STBLN	-0.022	-0.060	0.601	0.262	0.539	0.603	0.521	0.778	0.782	0.662
STBND	0.126	0.129	0.291	0.161	0.169	0.266	0.176	0.119	0.297	0.330
ACKMLN	0.111	-0.172	0.625	0.124	0.344	0.486	0.392	0.332	0.682	0.643
ACKMD	-0.017	-0.190	0.080	0.178	0.165	0.141	0.077	-0.010	0.228	0.195
HYFAC	-0.156	0.006	0.473	0.284	0.491	0.539	0.529	0.491	0.596	0.542
CORMD	0.092	0.220	0.380	0.200	0.337	0.115	-0.001	0.283	0.339	0.339
CORMD	-0.043	0.069	-0.064	0.095	-0.078	-0.013	-0.077	-0.102	-0.140	-0.069
INNOFHD	0.431	0.144	-0.542	-0.347	-0.611	-0.733	-0.517	-0.444	-0.702	-0.596
IBLNR	-0.083	-0.018	0.676	-0.116	0.501	0.619	0.552	0.509	0.791	0.616
OSLNR	-0.051	-0.057	0.330	-0.127	-0.060	0.216	0.293	0.263	0.362	0.299
INVLNR	-0.106	-0.13	0.229	-0.354	-0.159	-0.192	0.156	0.154	0.146	-0.085
OSLNR	0.127	0.167	0.274	-0.032	-0.009	0.211	0.081	0.124	0.295	0.202
ACKLNR	0.128	0.067	0.413	0.039	0.283	0.447	0.367	0.365	0.615	0.596
CORLNR	-0.080	-0.046	0.709	0.218	0.591	0.721	0.564	0.597	0.852	0.619
STBLR	-0.031	-0.088	0.607	0.265	0.642	0.689	0.534	0.542	0.764	0.651
FTLPLR	0.196	-0.050	-0.591	-0.295	-0.508	-0.628	-0.454	-0.494	-0.630	-0.516
INFLNR	-0.081	0.030	0.168	0.034	0.169	0.047	0.009	0.132	0.201	0.344
LRNFR	-0.144	0.047	0.639	0.379	0.637	0.761	0.651	0.486	0.784	0.649

IDENTIFICATION: CHARACTER CORRELATION MATRIX

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	VANGS	VANGB	SHHL	LMDRL	ROLHL	MODL	APKAN	APKPS	BSAH	BSPS
VANGS	1.000									
VANGB	0.105	1.000								
SPIAL	0.008	-0.185	1.060							
LMDRL	-0.089	-0.316	0.783	1.000						
ROLHL	-0.003	-0.162	0.398	0.454	1.000					
MODL	0.005	0.150	-0.460	-0.498	0.483	1.000				
APKAN	0.078	0.181	-0.358	-0.486	-1.415	0.112	1.000			
APKPS	0.043	-0.142	-0.060	0.098	0.294	0.181	-0.458	1.000		
BSAH	0.170	0.374	-0.322	-0.611	-0.712	0.923	0.227	-0.074	1.000	
BSPS	0.241	0.374	0.166	-0.159	-0.025	0.113	0.011	-0.086	0.573	1.000
SVIHS	0.310	0.217	-0.243	-0.259	-0.175	0.069	0.183	0.019	0.234	0.057
NSECV	0.122	0.111	0.166	0.261	0.477	0.198	-0.165	0.139	-0.035	0.067
FTNSV	0.095	-0.122	0.003	0.035	0.274	0.420	0.045	0.033	-0.061	-0.068
FTLLN	-0.051	-0.094	0.001	0.019	0.169	0.159	-0.020	-0.006	-0.020	-0.079
HTLA	-0.065	-0.060	-0.091	-0.034	0.200	0.275	0.019	0.096	0.079	0.048
HTLOH	0.022	0.252	-0.172	-0.332	-0.432	-0.097	0.182	-0.228	0.415	0.380
CORLLR	0.004	0.097	-0.222	-0.242	-0.150	0.099	0.203	-0.067	0.287	0.129
CORLND	-0.064	0.037	-0.106	-0.152	-0.131	0.028	0.144	-0.088	0.170	0.160
GOHVO	-0.172	-0.058	-0.096	-0.087	-0.001	0.087	0.053	-0.081	0.105	0.110
STRKDL	0.129	0.099	0.187	-0.226	-0.174	0.047	0.146	-0.076	0.102	-0.057
STBLR	0.048	0.315	-0.205	-0.339	-0.437	-0.113	0.311	-0.255	0.312	0.177
STEND	-0.006	-0.002	-0.027	-0.152	-0.159	-0.010	0.239	-0.108	0.134	0.159
ACRHLR	0.091	0.112	0.277	-0.310	-0.289	-0.166	0.065	-0.108	0.234	0.252
ACHVND	-0.058	0.106	0.173	0.080	-0.012	-0.002	0.014	-0.159	0.073	0.081
IVFPC	0.009	0.138	-0.251	-0.343	-0.439	0.055	0.329	-0.369	0.209	0.039
CRMHV	0.140	-0.044	-0.061	-0.214	-0.133	0.037	0.242	-0.108	0.295	0.075
CRMHVND	0.106	-0.029	0.034	-0.019	0.121	0.115	0.032	0.006	0.052	0.116
KNNDVND	-0.021	-0.274	0.214	0.335	0.517	-1.158	-0.225	0.247	-0.307	-0.228
ISVND	0.086	0.309	-0.210	-0.308	-0.408	-0.136	0.224	-0.231	0.378	0.261
ORLVR	0.079	0.219	-0.174	-0.189	-0.209	-0.224	0.047	-0.046	0.198	0.194
IRVLR	0.081	0.167	-0.016	0.030	-0.083	-0.047	0.082	-0.010	0.007	-0.060
ORLLVR	0.068	0.061	-0.163	-0.157	-0.079	0.077	0.115	-0.012	0.181	0.043
ACLLVR	0.028	0.048	-0.083	-0.151	-0.311	-0.152	0.063	-0.031	0.203	0.241
CORLLR	-0.026	0.309	-0.231	-0.356	-0.476	-0.108	0.272	-0.290	0.345	0.348
STLVR	-0.050	0.226	-0.145	-0.316	-0.486	-0.155	0.293	-0.286	0.386	0.325
TFLVR	-0.003	-0.282	0.237	0.360	0.383	0.026	-0.301	0.310	-0.311	-0.171
IRFLVR	0.048	0.095	0.109	0.083	0.058	-0.035	-0.089	-0.090	-0.012	-0.049
LRNVR	0.065	0.285	-0.254	-0.396	-0.497	-0.075	0.305	-0.249	0.398	0.281

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	SVINS	NSFCV	PINEV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	STNKLQ
SVINS	1.000									
NSFCV	0.211	1.000								
PINEV	-0.135	-0.080	1.000							
PTLLN	-0.127	0.096	-0.128	1.000						
INTLN	0.025	0.051	0.101	-0.022	1.000					
NFLOR	0.081	-0.313	-0.233	0.129	-0.013	1.000				
CORLLN	0.136	0.029	-0.027	0.168	0.088	0.169	1.000			
CORLWD	-0.061	-0.050	-0.054	-0.018	-0.103	0.066	0.359	1.000		
CORTWD	-0.120	-0.069	0.003	0.140	-0.046	0.038	0.357	0.500	1.000	
STNKLQ	0.100	-0.083	-0.003	0.087	-0.080	0.215	0.342	0.106	0.090	1.000
STBLN	0.107	-0.279	-0.190	0.219	0.008	0.545	0.286	0.057	0.187	0.388
STBWD	-0.044	-0.202	0.062	0.110	-0.029	0.199	0.206	0.292	0.342	0.212
ACQKLY	-0.019	-0.132	-0.337	0.179	0.022	0.405	0.225	0.131	0.159	0.147
ACHKMO	-0.070	0.068	-0.149	0.121	-0.110	-0.002	0.175	0.224	0.338	0.091
RYFWD	0.043	-0.301	-0.149	0.171	-0.037	0.477	0.198	0.257	0.094	0.332
CRFWD	0.053	-0.103	0.089	0.033	0.063	0.191	0.261	0.431	0.306	0.316
CRHWD	-0.049	0.066	0.167	-0.128	0.146	-0.106	0.123	0.353	0.226	0.114
WMDTWD	-0.040	0.361	0.197	-0.089	0.102	-0.676	-0.197	-0.178	-0.032	-0.290
JBLNR	0.092	-0.226	-0.224	0.293	-0.065	0.642	0.395	0.065	0.028	0.301
COLNR	0.039	-0.097	-0.189	0.063	0.111	0.267	0.169	-0.038	0.005	0.766
INVLNR	0.027	0.206	-0.115	0.242	-0.039	-0.190	0.271	-0.020	-0.012	0.130
CRLLNR	0.186	0.042	-0.012	0.184	0.152	0.143	0.821	-0.229	0.069	0.294
ACLNR	0.015	-0.211	-0.288	0.111	0.087	0.439	0.176	-0.027	-0.009	0.162
CORLNR	0.065	-0.271	-0.218	0.254	0.031	0.720	0.310	0.012	0.057	0.386
STLLNR	0.013	-0.310	-0.253	0.295	0.025	0.705	0.186	0.142	0.125	-0.154
TLLPLR	-0.079	0.222	0.125	-0.232	0.038	-0.599	-0.268	-0.079	0.056	-0.360
HFLLNR	-0.072	0.002	0.047	0.106	0.016	-0.036	0.094	-0.079	0.023	0.163
LSHNR	0.078	-0.332	-0.173	0.116	-0.038	0.729	0.294	0.186	0.101	0.341

IDENTIFICATION: CHARACTER CORRELATION MATRIX

PAGE 4

	STBLN	STBMD	ACHOLN	ACHQMD	NVPAC	CRPKMD	CRBMD	NRNOFMD	IBLNR	OBLNR
STBLN	1.000									
STBMD	0.230	1.000								
ACHOLN	0.536	0.180	1.000							
ACHQMD	0.208	0.186	0.427	1.000						
NVPAC	0.308	0.272	0.253	0.103	1.000					
CRPKMD	0.262	0.216	0.179	0.324	0.217	1.000				
CRBMD	-0.075	0.232	-0.173	0.163	0.040	0.431	1.000			
NRNOFMD	-0.555	-0.166	-0.263	-0.016	-0.575	-0.226	0.101	1.000		
IBLNR	0.621	0.156	0.466	0.011	0.471	0.034	-0.152	-0.581	1.000	
OBLNR	0.381	0.010	0.264	-0.118	0.193	-0.104	-0.072	-0.161	0.165	1.000
ENVLNR	0.120	-0.091	0.106	-0.027	0.077	-0.230	-0.272	0.108	0.397	0.382
GRLLNR	0.264	0.057	0.173	-0.019	0.093	0.016	-0.087	-0.093	0.320	0.198
ACLNR	0.471	0.134	0.668	-0.065	0.204	0.031	-0.280	-0.297	0.496	0.344
COHLLNR	0.723	0.133	0.456	0.007	0.560	-0.016	-0.237	-0.673	0.799	0.407
STLLNR	0.607	0.229	0.505	0.103	0.495	0.115	-0.215	-0.609	0.698	0.328
TFLPLR	-0.495	-0.137	-0.068	0.146	-0.595	-0.138	0.067	0.713	-0.637	-0.233
INFLNR	0.141	-0.099	-0.017	-0.001	0.063	-0.122	-0.095	-0.149	0.244	0.098
LNRFNR	0.610	0.259	0.393	0.081	0.624	0.331	-0.100	-0.678	0.632	0.166

IDENTIFICATION: CHARACTER CORRELATION MATRIX

PAGE 5

	IMVLMR	COLLMR	ADLMR	COBLLR	STLLMR	TFLPLR	INFLMR	LRNFMH
IMVLMR	1.000							
COLLMR	0.299	1.000						
ADLMR	0.128	0.188	1.000					
COBLLR	0.229	0.116	0.485	1.000				
STLLMR	0.100	0.110	0.495	0.721	1.000			
TFLPLR	-0.128	-0.231	-0.074	-0.698	-0.514	1.000		
INFLMR	0.391	0.196	-0.028	0.287	0.107	-0.180	1.000	
LRNFMH	-0.039	0.191	0.388	0.679	0.639	-0.650	0.176	1.000

ITERATION NUMBER 1
TRACE = 43.000000

FACTOR NUMBER	EIGEN VALUE	PERCENT OF TRACE	ACCUM. PERCENT
FACT0001	13.47704	28.08	28.08
FACT0002	3.58135	7.38	35.45
FACT0003	3.11205	6.48	41.94

SUM OF SQUARES OF EACH VARIABLE ACCOUNTED FOR BY FACTORS FROM 1 TO 1000 NO. 1

0.1121	0.2183	0.6624	0.4421	0.6116	0.8079	0.2141	0.4382	0.9207	0.4358
0.0790	0.2249	0.3951	0.6036	0.4106	0.5042	0.2719	0.1463	0.4795	0.1372
0.1683	0.2301	0.1964	0.0511	0.0791	0.6832	0.3610	0.3086	0.1975	0.2163
0.6213	0.1118	0.3700	0.1692	0.4842	0.2979	0.3493	0.6550	0.7805	0.1450
0.4346	0.3790	0.3855	0.8225	0.6779	0.5163	0.1102	0.7306		

IDENTIFICATION: LIST OF 48 FACTORS AND THEIR CORRESPONDING EIGENVALUES

PAGE 1

FACT0001	EIGENVAL
FACT0001	13.577
FACT0002	3.541
FACT0003	3.112
FACT0004	2.646
FACT0005	2.303
FACT0006	2.147
FACT0007	1.915
FACT0008	1.650
FACT0009	1.358
FACT0010	1.318
FACT0011	1.186
FACT0012	1.148
FACT0013	1.042
FACT0014	1.002
FACT0015	0.876
FACT0016	0.783
FACT0017	0.725
FACT0018	0.696
FACT0019	0.652
FACT0020	0.613
FACT0021	0.563
FACT0022	0.513
FACT0023	0.529
FACT0024	0.454
FACT0025	0.434
FACT0026	0.391
FACT0027	0.366
FACT0028	0.332
FACT0029	0.315
FACT0030	0.297
FACT0031	0.263
FACT0032	0.207
FACT0033	0.197
FACT0034	0.169
FACT0035	0.138
FACT0036	0.129
FACT0037	0.122
FACT0038	0.095
FACT0039	0.085
FACT0040	0.033
FACT0041	0.047
FACT0042	0.043
FACT0043	0.023
FACT0044	0.015
FACT0045	0.009
FACT0046	0.007
FACT0047	0.003
FACT0048	0.004

IDENTIFICATION: RELATIVE CONTRIBUTIONS OF THE CHARACTER VARIABLES TO THE PCA

PAGE 1

	FACT0001	FACT0002	FACT0003
RACHLN	0.029	-0.283	0.177
INRDLE	-0.045	-0.409	0.229
NBR	-0.829	0.040	0.014
ISRW	-0.291	-0.377	-0.340
OSRW	-0.722	-0.076	-0.291
INPDW	-0.899	-0.136	-0.148
INCL	-0.704	0.119	-0.081
LDRP	-0.643	0.211	-0.001
INFL	-0.925	0.089	-0.024
INFW	-0.890	-0.072	-0.094
VANGS	-0.094	-0.088	0.263
VANGS	-0.300	0.241	0.328
SHHNL	0.291	0.264	-0.891
LHSHNL	0.402	0.391	-0.897
SHHNL	0.621	-0.098	0.148
SHHNL	0.112	-0.452	0.606
APXAN	-0.395	-0.516	0.149
APXPS	0.334	0.047	0.180
BSAN	-0.487	-0.289	0.396
BSPE	-0.363	-0.095	0.107
SVINS	-0.129	-0.076	0.383
NISCV	0.365	0.040	0.309
PINSV	0.276	-0.323	0.125
PILLR	-0.208	0.102	0.086
INTLR	0.027	-0.116	0.244
NFLOR	-0.819	0.033	-0.109
CORLLN	-0.366	-0.231	0.399
CORLMD	-0.229	-0.461	-0.250
CORTWD	-0.133	-0.405	-0.124
STWALOL	-0.384	-0.181	0.190
STBLR	-0.786	0.050	0.017
STBD	-0.319	-0.433	-0.199
ACSHLN	-0.578	0.158	-0.124
ACPMAD	-0.138	-0.229	-0.316
HYFAC	-0.679	-0.099	0.119
CRPMAD	-0.290	-0.690	-0.192
CRPMAD	0.105	-0.574	-0.097
INNOTHD	0.743	0.043	0.202
ISLWR	-0.798	0.323	0.199
OSLWR	-0.368	0.324	0.289
ISVLR	-0.094	0.480	0.442
CRLLWR	-0.278	0.042	0.546
ACLWR	-0.247	0.293	0.015
CORLWR	-0.862	0.259	0.114
STLLBR	-0.796	0.172	-0.121
TFLPLR	0.710	-0.047	-0.099
ISFLWR	-0.106	0.276	0.150
LNFRHR	-0.849	-0.098	-0.076

IDENTIFICATION: VALUES OF PCA COORDINATES FOR OTUS

PAGE 1

	OTU 039	OTU 042	OTU 043	OTU 045	OTU 047	OTU 049	OTU 050	OTU 053	OTU 054	OTU 057
FACT0001	0.776	-0.226	0.370	-0.460	-0.261	-0.388	-0.209	-0.200	-0.249	
FACT0002	0.161	-0.839	0.263	-0.635	-0.721	0.091	-0.141	-0.163	-0.696	0.022
FACT0003	0.697	-0.529	0.217	0.508	0.163	0.300	-0.140	0.303	-0.227	-0.062
	OTU 059	OTU 060	OTU 061	OTU 064	OTU 066	OTU 068	OTU 070	OTU 071	OTU 076	OTU 077
FACT0001	-0.366	-0.356	-0.821	-0.058	-0.305	-0.071	0.211	-0.268	0.256	0.328
FACT0002	-0.232	-0.156	0.827	-0.322	-0.496	-0.181	0.117	-0.096	0.099	0.593
FACT0003	0.069	0.263	0.140	0.168	0.039	0.195	0.515	0.447	0.163	-0.071
	OTU 078	OTU 080	OTU 083	OTU 085	OTU 086	OTU 088	OTU 090	OTU 091	OTU 093	OTU 094
FACT0001	0.086	0.795	-0.116	-0.006	-0.101	0.039	0.478	0.575	-0.549	0.609
FACT0002	0.214	0.323	-0.263	-0.138	0.239	0.740	0.158	-0.005	-0.341	-0.009
FACT0003	-0.001	0.320	0.370	0.024	-0.075	0.112	0.067	0.390	0.232	0.431
	OTU 097	OTU 100	OTU 102	OTU 104	OTU 106	OTU 108	OTU 110	OTU 112	OTU 114	OTU 115
FACT0001	0.906	-0.037	0.002	-0.380	-0.662	-0.112	-0.353	-0.560	-0.508	-0.045
FACT0002	0.304	-0.329	-0.143	0.049	-0.172	0.377	-0.408	-0.529	-0.096	0.164
FACT0003	-0.078	0.201	0.213	0.387	0.035	0.411	0.001	0.229	-0.110	-0.243
	OTU 116	OTU 119	OTU 122	OTU 125	OTU 127	OTU 129	OTU 130	OTU 132	OTU 135	OTU 136
FACT0001	0.281	0.840	0.813	0.667	0.111	-0.136	-0.255	0.173	-0.692	-0.257
FACT0002	0.280	-0.110	0.310	0.430	-0.064	0.004	-0.182	-0.055	0.068	
FACT0003	0.234	0.102	0.683	0.571	-0.084	-0.138	-0.161	0.057	-0.236	
	OTU 138	OTU 140	OTU 143	OTU 145	OTU 147	OTU 149	OTU 151	OTU 153	OTU 155	OTU 156
FACT0001	-0.724	-0.077	-0.233	-0.685	-0.130	-0.045	-0.100	0.080	-0.324	
FACT0002	-0.446	0.083	0.469	-0.059	-0.033	0.031	0.489	0.233	-0.021	
FACT0003	-0.293	-0.065	-0.109	-0.311	0.004	-0.253	-0.286	0.173	-0.088	
	OTU 158	OTU 162	OTU 165	OTU 166	OTU 167	OTU 171	OTU 177	OTU 181	OTU 183	
FACT0001	0.250	-0.099	-0.142	0.087	-0.495	-0.343	-0.337	0.095	-0.048	
FACT0002	0.261	0.469	-0.185	0.675	0.424	0.471	-0.206	-0.293	0.347	0.073
FACT0003	-0.257	0.267	-0.515	-0.028	-0.202	-0.112	0.039	0.421	0.218	0.287
	OTU 186	OTU 187	OTU 189	OTU 191	OTU 194	OTU 196	OTU 197	OTU 199	OTU 200	OTU 202
FACT0001	0.038	-0.076	0.055	-0.005	-0.016	0.082	-0.022	-0.021	-0.157	-0.217
FACT0002	0.400	-0.011	0.391	-0.199	-0.109	-0.162	-0.065	-0.059	-0.123	-0.001
FACT0003	-0.036	-0.18	0.065	-0.135	-0.101	-0.098	0.020	-0.046	-0.526	0.420

IDENTIFICATION: VALUES OF PCA COORDINATES FOR OTUS

PAGE 2

FACT0001	OTU 206	OTU 209	OTU 210	OTU 212	OTU 211	OTU 216	OTU 218	OTU 220	OTU 227	OTU 229
FACT0002	0.087	-0.159	-0.038	0.106	0.074	0.022	0.070	-0.819	-0.406	-0.386
FACT0003	0.199	-0.533	-0.609	0.236	-0.071	0.274	-0.015	0.358	0.093	0.165
	-0.143	0.069	-0.085	-0.049	0.175	0.015	0.159	-0.326	-0.122	-0.118
FACT0001	OTU 231	OTU 234	OTU 235	OTU 236	OTU 239	OTU 241	OTU 243	OTU 246	OTU 247	OTU 251
FACT0002	-0.571	-0.968	-0.645	-0.815	-0.780	-0.735	-0.584	-0.791	-0.761	-0.759
FACT0003	0.271	0.101	0.093	-0.038	-0.227	-0.601	0.282	0.235	-0.059	0.120
	-0.068	0.120	-0.068	0.216	-0.231	0.389	-0.096	0.111	-0.150	-0.097
FACT0001	OTU 252	OTU 254	OTU 256	OTU 259	OTU 260	OTU 262	OTU 264	OTU 266	OTU 268	OTU 270
FACT0002	-0.511	-0.523	-0.515	-0.685	-0.532	-0.409	-0.297	-0.466	-0.500	-0.305
FACT0003	0.070	0.306	0.255	-0.225	-0.019	-0.174	0.078	0.156	0.153	-0.167
	-0.048	-0.003	-0.067	0.313	0.117	0.138	-0.077	0.104	-0.115	-0.210
FACT0001	OTU 272	OTU 273	OTU 276	OTU 278	OTU 280	OTU 282	OTU 283	OTU 286	OTU 288	OTU 289
FACT0002	-0.091	-0.411	-0.387	-0.633	-0.449	-0.560	-0.668	-0.781	-0.587	-0.475
FACT0003	-0.012	0.238	0.279	0.120	-0.158	-0.490	0.322	0.039	0.193	-0.144
	-0.050	-0.263	-0.751	-0.399	0.152	-0.157	-0.014	0.028	-0.126	0.050
FACT0001	OTU 292	OTU 295	OTU 296	OTU 297	OTU 298	OTU 301	OTU 305	OTU 306	OTU 308	OTU 310
FACT0002	-0.082	-0.323	0.613	0.617	0.628	0.839	0.889	0.892	0.861	0.692
FACT0003	0.128	0.228	-0.527	-0.236	-0.268	0.120	0.069	0.059	-0.208	-0.141
	-0.194	-0.206	-0.415	-0.371	0.252	0.079	-0.212	-0.275	-0.256	-0.348
FACT0001	OTU 311	OTU 313	OTU 314	OTU 316	OTU 322	OTU 324	OTU 326	OTU 327	OTU 330	OTU 332
FACT0002	0.650	0.906	0.492	0.575	0.632	0.613	0.697	0.426	0.692	0.718
FACT0003	-0.028	-0.257	-0.291	-0.153	0.143	-0.132	-0.261	0.082	-0.383	-0.062
	-0.035	-0.268	-0.489	-0.047	0.018	0.189	-0.087	-0.200	0.076	0.315
FACT0001	OTU 333	OTU 336	OTU 337	OTU 339	OTU 340	OTU 341	OTU 342	OTU 343	OTU 344	OTU 345
FACT0002	0.717	0.894	0.879	0.857	0.719	0.695	0.754	0.922	1.064	0.832
FACT0003	-0.281	-0.009	-0.118	-0.258	0.074	-0.027	-0.130	-0.077	0.368	0.045
	-0.309	-0.224	-0.113	-0.106	0.311	-0.248	-0.330	-0.232	-0.566	0.051

APPENDIX VB

**Summary of Principal Components Analysis
for 138 Male OTUs**

	RACHLEN	INTNDLN	LINWOL	NKLLN	KHML	APXAN	APKPS	BSAN	BSPS	QKINS
RACHLEN	1.000									
INTNDLN	0.623	1.000								
LINWOL	0.120	0.043	1.000							
NKLLN	0.216	0.114	0.475	1.000						
KHML	0.097	0.071	-0.377	0.258	1.000					
APXAN	-0.090	-0.068	-0.469	-0.260	0.177	1.000				
APKPS	-0.104	-0.129	-0.439	-0.258	-0.400	-0.414	1.000			
BSAN	-0.138	0.017	-0.494	-0.156	-0.272	-0.05	0.166	1.000		
BSPS	-0.093	-0.047	0.032	0.120	-0.275	-0.000	-0.000	0.070	1.000	
QKINS	-0.002	-0.127	-0.292	0.049	0.323	-0.1	-0.037	0.040	-0.057	1.000
NSECV	0.036	-0.143	0.192	0.123	-0.164	-0.04	0.108	0.037	0.172	0.223
FINW	-0.013	0.007	0.137	0.308	0.182	-0.071	-0.04	-0.034	0.16	-0.049
PTLLN	0.097	0.225	0.286	0.352	0.123	-0.215	0.011	-0.006	-0.071	-0.071
INTLN	0.220	0.100	-0.095	0.204	0.228	0.066	-0.127	-0.04	0.135	
NDR	-0.046	0.160	-0.192	-0.004	-0.193	0.202	0.033	-0.1	0.065	
IBRL	-0.046	0.108	-0.203	-0.335	-0.168	0.068	0.124	0.028	-0.102	
DBRL	-0.036	0.180	-0.171	-0.369	-0.165	0.056	0.108	0.232	-0.141	
IBRW	-0.007	0.139	-0.296	-0.211	0.001	0.052	0.156	0.228	-0.090	-0.111
GBRW	0.005	0.251	-0.130	-0.179	-0.061	0.070	0.089	0.204	0.162	-0.192
IKWL	0.000	0.152	-0.269	-0.306	-0.070	0.219	-0.031	0.127	0.184	-0.048
LBRP	0.037	0.178	-0.132	-0.179	-0.044	0.063	-0.040	0.171	0.180	-0.055
NFLOR	-0.018	0.158	-0.133	-0.193	-0.216	0.129	0.080	0.214	0.279	-0.148
IKWL	-0.165	0.037	0.199	-0.221	-0.058	0.071	0.056	0.019	0.067	-0.106
COCLWD	0.004	0.151	-0.122	-0.044	0.119	0.010	0.032	0.072	0.030	0.085
COCLWD	-0.163	0.026	-0.228	-0.229	-0.059	0.038	0.051	0.228	0.119	-0.087
LCITPA	-0.052	0.104	-0.179	-0.249	-0.104	0.084	0.101	0.177	-0.167	-0.099
INW	0.025	0.139	-0.130	-0.270	-0.165	0.134	0.109	0.132	0.182	-0.213
INW	-0.005	0.137	-0.216	-0.327	-0.138	0.114	0.043	0.224	0.228	-0.213
FWK	-0.116	0.125	-0.207	-0.369	-0.079	0.124	0.016	0.116	0.075	-0.155
ANKLN	-0.040	0.035	-0.210	-0.206	-0.021	0.109	0.086	0.202	0.243	-0.023
STKLLN	0.024	0.242	-0.180	-0.069	0.117	0.021	0.055	-0.073	-0.035	0.026
WACKLN	0.04	0.109	0.104	-0.075	-0.158	0.009	0.030	0.089	0.040	-0.017
CRKMD	-0.067	0.109	-0.193	-0.211	-0.044	-0.021	0.104	0.270	0.176	-0.111
CRKMD	-0.004	0.015	-0.110	-0.020	0.080	-0.047	0.119	0.169	0.165	-0.017
VANGS	0.153	0.125	-0.244	0.110	0.342	0.223	-0.136	0.184	0.058	0.440
VANGS	-0.228	-0.090	-0.285	-0.043	0.222	0.051	-0.042	0.266	0.256	0.108
SHLR	0.032	0.017	-0.118	0.370	-0.370	-0.356	-0.081	0.169	0.165	-0.271
NNWOFD	0.395	0.064	0.222	0.399	0.204	-0.193	-0.177	-0.272	-0.208	0.163
IBLR	-0.068	0.043	-0.100	-0.314	-0.250	0.084	0.022	0.247	0.118	-0.054
DBLR	-0.094	-0.132	-0.183	-0.277	-0.161	0.102	0.004	0.089	0.105	-0.167
INWLR	-0.134	-0.168	0.018	0.106	0.092	0.021	-0.199	-0.125	-0.083	0.126
CRLLNR	-0.156	-0.046	-0.073	-0.189	-0.131	0.065	0.020	-0.046	0.030	-0.049
COILLW	-0.019	-0.007	-0.036	-0.084	-0.053	0.121	0.014	-0.054	0.027	-0.022
COILLNR	-0.071	0.035	-0.106	-0.257	-0.167	0.121	0.010	0.006	0.036	-0.095
STLLR	0.019	-0.100	-0.013	-0.145	-0.162	0.078	0.022	0.189	0.101	-0.059
ITLLR	-0.022	0.150	0.199	0.345	0.192	-0.094	-0.138	-0.242	-0.190	0.062
INFLNR	-0.075	-0.141	-0.021	0.104	0.127	-0.097	-0.170	-0.107	-0.123	0.233
LEWFR	-0.121	0.109	-0.156	0.178	0.178	0.056	0.223	0.004	0.004	-0.168
ALFLNR	0.172	-0.061	0.123	0.259	0.137	-0.058	0.024	0.014	0.078	0.187
LCFLNR	0.002	0.066	-0.077	-0.131	-0.068	0.072	0.094	0.037	0.066	-0.015

IDENTIFICATION: CHARACTER CORRELATION MATRIX

PAGE 2

	NSECV	PINRV	*TLLN	IX'LN	NSR	IBRL	OBRL	IBRW	OBRW	PKKL
NSECV	1.000									
PINRV	0.053	1.000								
PTLLN	0.236	-0.046	1.000							
INTLN	0.011	0.128	-0.097	1.000						
NSR	-0.173	-0.328	0.632	0.019	1.000					
IBRL	-0.134	-0.317	0.222	0.056	0.849	1.000				
OBRL	-0.155	-0.320	0.232	0.062	0.010	0.286	1.000			
IBRW	-0.099	-0.160	0.023	0.165	0.566	0.639	0.060	1.000		
OBRW	-0.138	-0.264	0.259	0.061	0.781	0.786	0.986	0.623	1.000	
PKKL	-0.123	-0.306	0.213	0.056	0.800	0.766	0.907	0.552	0.725	1.000
CBNP	-0.027	-0.283	0.271	0.090	0.403	0.729	0.673	0.520	0.610	0.727
NFLOR	-0.192	-0.265	0.239	0.010	0.817	0.825	0.843	0.529	0.740	0.772
CORLLN	-0.058	-0.263	0.193	-0.080	0.998	0.534	0.566	0.355	0.544	0.636
CORLWD	-0.098	0.081	0.187	0.138	0.265	0.179	0.176	0.260	0.229	0.217
CORLWD	-0.073	-0.196	0.200	0.131	0.549	0.670	0.692	0.562	0.571	0.607
LCTFFA	-0.120	-0.250	0.165	-0.007	0.735	0.759	0.740	0.469	0.672	0.707
INFW	-0.246	-0.276	0.166	0.093	0.695	0.728	0.785	0.477	0.740	0.747
INT	-0.124	-0.301	0.208	0.077	0.839	0.899	0.844	0.521	0.758	0.830
PKKL	-0.167	-0.237	0.167	0.040	0.845	0.602	0.639	0.347	0.601	0.682
AMNIN	0.013	-0.330	0.185	0.116	0.690	0.740	0.700	0.501	0.616	0.713
STKCOL	-0.060	0.016	0.077	0.051	0.818	-0.273	-0.273	0.260	0.333	0.333
VACNKLN	0.022	-0.065	-0.121	0.222	0.027	0.299	0.226	0.245	0.156	0.069
CORLWD	-0.037	-0.112	0.289	0.135	0.560	0.670	0.611	0.464	0.561	0.569
CORLWD	0.004	0.024	0.157	0.149	0.239	0.349	0.250	0.189	0.227	0.241
VANGS	0.240	0.090	-0.177	0.099	-0.019	-0.051	-0.080	-0.047	-0.073	0.010
VANGS	0.150	0.016	0.114	-0.051	0.075	0.235	0.252	0.160	0.280	0.296
SHIHL	0.191	0.092	0.281	-0.096	-0.228	-0.086	-0.097	-0.226	-0.039	-0.236
MINOFID	0.231	0.063	-0.133	0.033	-0.799	-0.797	-0.821	-0.539	-0.741	-0.751
IBLR	-0.127	-0.309	0.264	-0.039	0.711	0.826	0.749	0.113	0.590	0.624
OBRL	-0.069	-0.123	-0.010	-0.022	0.231	0.267	0.299	-0.097	-0.160	0.226
IBRL	0.164	0.113	-0.005	-0.157	-0.112	-0.188	-0.221	0.278	-0.357	-0.167
CORLLN	-0.003	-0.295	0.066	-0.129	0.430	0.412	0.442	0.199	0.396	0.503
CORLWR	-0.074	-0.084	-0.078	0.269	0.198	0.245	0.245	0.232	0.225	0.225
CORLWR	-0.170	-0.268	0.070	0.060	0.596	0.499	0.550	0.238	0.514	0.542
STLLR	-0.022	-0.169	0.079	0.075	0.151	0.336	0.347	0.026	0.297	0.225
YFLR	0.225	0.334	-0.165	0.065	-0.762	-0.619	-0.805	-0.388	-0.760	-0.714
INFLR	0.259	0.101	-0.050	-0.092	-0.255	-0.317	-0.437	-0.270	-0.478	-0.302
LRNPR	-0.168	-0.258	0.190	-0.019	0.758	0.804	0.800	0.526	0.709	0.782
ALPRL	0.260	0.092	-0.036	0.017	-0.108	-0.262	-0.328	-0.091	-0.315	-0.296
LCPCLR	-0.147	-0.046	-0.039	-0.047	0.258	0.270	0.286	0.080	0.239	0.190

IDENTIFICATION: CHARACTER CORRELATION MATRIX

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LEBP	NFLOR	CORLLN	CORLMD	CORTWD	LCTPFA	INFW	INFL	FMXLN	AMKLN
LEBP	1.000								
NFLOR	0.663	1.000							
CORLLN	0.511	0.463	1.000						
CORLMD	0.221	0.138	0.174	1.000					
CORTWD	0.502	0.569	0.477	0.381	1.000				
LCTPFA	0.366	0.699	0.675	0.144	0.482	1.000			
INFW	0.651	0.611	0.538	0.173	0.489	0.769	1.000		
INFL	0.716	0.822	0.620	0.197	0.601	0.853	0.627	1.000	
FMXLN	0.514	0.536	0.727	0.253	0.495	0.737	0.670	0.676	1.000
AMKLN	0.656	0.693	0.757	0.112	0.534	0.757	0.724	0.510	0.646
SHKLDL	0.273	0.134	0.367	0.283	0.134	0.216	0.069	0.271	0.265
VACUOLN	0.107	0.211	-0.012	-0.203	0.218	0.195	0.302	0.256	0.057
CHNHMD	0.632	0.517	0.433	0.370	0.865	0.389	0.400	0.587	0.369
CHNHMD	0.257	0.185	0.139	0.452	0.546	0.060	0.087	0.234	0.006
VANGS	-0.053	-0.106	-0.009	0.061	-0.111	-0.001	-0.098	-0.014	-0.036
VANGS	0.190	0.194	0.284	0.182	0.178	0.236	0.172	0.289	0.241
SHHNL	-0.098	-0.026	-0.213	-0.181	-0.192	-0.158	-0.100	-0.138	-0.208
HYNOFMD	-0.631	-0.789	-0.573	-0.165	-0.643	-0.702	-0.791	-0.775	-0.649
ISLMR	0.561	0.706	0.442	0.058	0.443	0.685	0.622	0.714	0.530
OP MR	0.168	0.287	0.120	-0.039	0.180	0.188	0.117	0.232	0.166
INFLMR	-0.742	-0.390	0.034	-0.069	-0.199	-0.133	-0.035	-0.168	-0.121
CORLMR	0.267	0.268	0.850	-0.358	0.258	0.251	0.358	0.472	0.541
CORLMR	0.065	0.217	0.408	-0.159	-0.276	0.617	0.414	0.346	0.359
CORLMR	0.399	0.501	0.604	-0.113	0.139	0.781	0.632	0.641	0.700
STLAR	0.219	0.398	0.094	-0.099	0.197	0.404	0.503	0.392	0.237
TFPLR	-0.675	-0.743	-0.429	-0.161	-0.594	-0.268	-0.653	-0.695	-0.562
NFLMR	-0.245	-0.447	-0.110	-0.077	-0.202	-0.331	-0.707	-0.519	-0.298
LINKMR	0.630	0.762	0.633	0.128	0.417	0.729	0.737	0.817	0.645
ALPFLR	-0.162	-0.236	-0.403	-0.256	-0.178	-0.433	-0.370	-0.287	-0.402
LCPPCLR	0.073	0.287	0.066	-0.005	-0.025	0.697	0.427	0.383	0.259

IDENTIFICATION: CHARACTER CORRELATION MATRIX

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	STKXLOL	VACPKLN	CRPKXND	CRWEND	VACOS	VANDS	SHHNL	NWROFND	IBLNR	OBLNR
STKXLOL	1.000									
VACPKLN	-0.233	1.000								
CRPKXND	0.368	0.126	1.000							
CRWEND	0.299	0.032	0.590	1.000						
VACOS	0.075	-0.065	-0.115	-0.039	1.000					
VANDS	0.176	-0.163	0.106	0.087	0.221	1.000				
SHHNL	-0.005	0.005	-0.100	-0.021	-0.223	-0.101	1.000			
NWROFND	-0.166	-0.268	-0.556	-0.208	0.119	-0.273	0.115	1.000		
IBLNR	0.054	0.198	0.400	0.176	-0.001	0.235	0.038	-0.674	1.000	
OBLNR	0.003	0.094	0.139	0.069	-0.002	0.082	-0.079	-0.201	0.597	1.000
INVLNR	0.149	-0.359	-0.159	-0.008	0.566	0.113	-0.016	0.180	-0.073	0.131
CRLLNR	0.100	0.080	0.213	-0.088	-0.069	0.189	-0.110	0.132	0.308	0.157
CRLLNR	0.066	0.008	-0.052	-0.381	0.081	0.194	-0.097	-0.293	0.310	0.065
CRLLNR	0.111	0.126	0.071	-0.090	-0.039	0.210	-0.166	-0.527	0.077	0.190
STLLNR	-0.699	0.364	0.049	-0.170	-0.099	0.006	0.077	-0.336	0.000	0.076
7EPLR	-0.300	-0.120	-0.622	-0.300	0.119	-0.290	0.085	0.148	-0.662	-0.116
INFLNR	0.132	-0.318	-0.116	0.006	0.071	0.050	-0.030	0.110	-0.560	0.101
INFLNR	0.213	0.225	0.554	0.215	-0.073	0.211	-0.071	-0.069	0.669	0.221
ALFLNR	-0.073	0.051	-0.067	0.120	0.036	-0.195	0.103	0.393	-0.283	-0.109
LOFLNR	-0.100	0.106	-0.102	-0.221	0.027	-0.012	-0.090	-0.293	0.290	0.099

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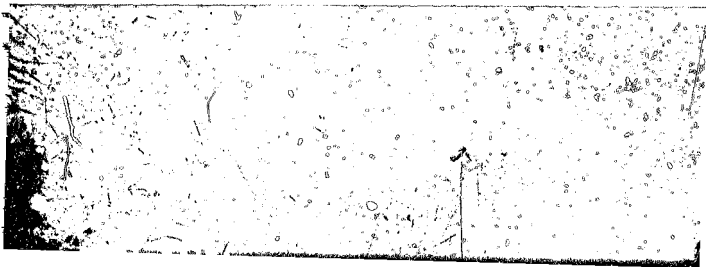
	INVLNR	CRLLNR	CORLNR	COBLNR	STLLNR	TFLPLR	INFLNR	LNHFNR	ALPHLR	LOPFCLR
INVLNR	1.000									
CRLLNR	0.070	1.000								
CORLNR	0.005	0.456	1.000							
COBLNR	-0.009	0.416	0.704	1.000						
STLLNR	-0.304	0.136	0.261	0.466	1.000					
TFLPLR	0.309	-0.322	-0.087	-0.352	-0.162	1.000				
INFLNR	0.790	-0.051	-0.217	-0.307	-0.176	0.448	1.000			
LNHFNR	-0.208	0.531	0.268	0.216	0.315	-0.650	-0.341	1.000		
ALPHLR	0.105	-0.283	-0.364	-0.448	-0.185	0.202	0.231	-0.318	1.000	
LOPFCLR	-0.166	0.043	0.560	0.462	0.418	-0.102	-0.303	0.283	-0.306	1.000

ITERATION NUMBER 1
TRACE = 50.000000

FACTOR NUMBER	EIGEN VALUE	PERCENT OF TRACE	ACCUM. PERCENT
FACT0001	14.0530	28.11	28.11
FACT0002	4.19330	8.31	36.42
FACT0003	3.91095	7.32	43.74

SUMS OF SQUARES OF EACH VARIABLE ACCOUNTED FOR BY FACTORS FROM ITERATION NO. 1

0.0559	0.0577	0.5909	0.2490	0.2811	0.2499	0.0602	0.1743	0.1167	0.2507
0.0869	0.1379	0.1854	0.0554	0.8183	0.8751	0.8673	0.9463	0.7450	0.7907
0.6232	0.7871	0.5789	0.7102	0.6985	0.8165	0.8304	0.8728	0.6889	0.6830
0.3706	0.1986	0.8222	0.199	0.1917	0.2250	0.2216	0.7974	0.5824	0.0919
0.3145	0.4391	0.7010	0.1113	0.1160	0.7046	0.4359	0.7866	0.3019	0.3886



	EIGENVAL
FACT0001	19.059
FACT0002	6.151
FACT0003	3.211
FACT0004	2.789
FACT0005	2.611
FACT0006	2.410
FACT0007	1.860
FACT0008	1.650
FACT0009	1.473
FACT0010	1.268
FACT0011	1.152
FACT0012	1.086
FACT0013	0.949
FACT0014	0.898
FACT0015	0.740
FACT0016	0.755
FACT0017	0.691
FACT0018	0.598
FACT0019	0.588
FACT0020	0.517
FACT0021	0.458
FACT0022	0.379
FACT0023	0.408
FACT0024	0.487
FACT0025	0.356
FACT0026	0.291
FACT0027	0.269
FACT0028	0.239
FACT0029	0.216
FACT0030	0.183
FACT0031	0.165
FACT0032	0.131
FACT0033	0.149
FACT0034	0.123
FACT0035	0.107
FACT0036	0.080
FACT0037	0.084
FACT0038	0.059
FACT0039	0.051
FACT0040	0.036
FACT0041	0.029
FACT0042	0.027
FACT0043	0.020
FACT0044	0.015
FACT0045	0.008
FACT0046	0.003
FACT0047	0.001
FACT0048	0.005
FACT0049	0.006
FACT0050	0.006



	FACT0001	FACT0002	FACT0003
RACHLEN	0.093	-0.018	0.212
JTMDLW	-0.131	-0.120	0.162
LMMDLL	0.260	0.291	0.682
MLJLL	0.394	-0.133	0.276
MMDL	0.170	-0.168	-0.382
APUAN	-0.190	0.046	-0.473
APAPS	-0.096	-0.059	0.218
BSAN	-0.259	-0.302	-0.128
BSPS	-0.254	-0.130	0.222
SVINS	0.163	-0.175	-0.447
RSECV	0.200	-0.199	0.026
PINW	0.353	-0.106	0.048
PTLLW	-0.214	-0.173	0.326
INTLL	-0.041	-0.217	0.081
NBR	-0.089	-0.111	-0.126
JBRLL	-0.222	-0.125	0.095
OSLL	-0.253	-0.042	0.174
IBW	-0.606	-0.386	0.077
QWRW	-0.843	-0.074	0.162
PKLL	-0.876	-0.109	-0.107
LBRT	-0.795	-0.219	0.070
NFLOR	-0.867	0.016	0.186
CORLLN	-0.705	0.046	0.280
CORLMD	-0.219	-0.471	-0.021
CORTWD	-0.687	-0.257	0.133
LCITRA	-0.853	0.271	-0.122
IFW	-0.869	0.214	0.172
WFL	-0.914	0.002	-0.009
FKLL	-0.768	0.186	-0.112
AKLL	-0.820	-0.003	-0.099
STBDL	-0.273	0.338	0.224
VACDCLN	-0.227	0.172	0.343
QDMD	-0.237	0.621	0.175
CRMD	-0.235	-0.120	0.160
VARGS	0.070	-0.122	-0.415
VARGC	-0.281	-0.170	-0.348
SHLNL	0.183	0.188	0.673
MWOPHO	0.791	-0.033	-0.051
ILW	-0.759	0.110	0.059
OSLW	-0.228	0.039	-0.194
IM	0.230	-0.087	-0.372
OR	-0.248	0.282	-0.242
CORLW	-0.329	0.707	-0.306
CORLA	-0.054	0.149	0.229
STL	-0.367	0.454	0.274
TL	0.809	0.181	-0.129
WFLK	0.305	-0.258	-0.114
LRPHR	-0.875	0.016	0.037
ALPHR	0.404	-0.113	0.221
LOPFLR	-0.329	0.228	-0.035

IDENTIFICATION: VALUES OF PCA COORDINATES FOR OTUS

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FACT0001	OTU 040	OTU 041	OTU 044	OTU 048	OTU 055	OTU 056	OTU 062	OTU 063	OTU 065	OTU 069
FACT0002	-0.302	-0.098	-0.197	-0.481	-0.130	-0.119	-0.146	-0.159	-0.093	-0.028
FACT0003	-1.266	-0.625	-0.868	-0.321	-0.178	-0.636	0.025	-0.140	0.215	-0.127
	0.138	0.384	-0.081	-0.370	-0.313	-0.441	-0.216	-0.229	-0.174	0.245
FACT0001	OTU 072	OTU 073	OTU 074	OTU 075	OTU 079	OTU 081	OTU 082	OTU 084	OTU 087	OTU 089
FACT0002	-0.546	-0.423	0.143	-0.032	0.265	0.255	-0.260	-0.237	-0.375	0.150
FACT0003	-0.092	-0.229	0.066	0.041	0.049	-0.085	0.256	-0.255	-0.111	-0.333
	0.086	0.417	-0.003	0.030	-0.153	0.111	-0.052	-0.027	-0.023	-0.298
FACT0001	OTU 092	OTU 095	OTU 096	OTU 098	OTU 099	OTU 101	OTU 103	OTU 105	OTU 107	OTU 109
FACT0002	-0.651	1.092	1.192	1.197	-0.103	0.960	-0.547	-0.495	-0.408	-0.909
FACT0003	0.010	-0.250	0.062	-0.052	-0.009	-0.034	0.135	-0.229	-0.395	-0.625
	0.127	-0.351	-0.115	0.127	-0.360	-0.604	-0.139	-0.043	-0.217	-0.127
FACT0001	OTU 111	OTU 112	OTU 117	OTU 118	OTU 120	OTU 121	OTU 123	OTU 126	OTU 128	OTU 129
FACT0002	-0.538	-0.622	-0.443	-0.477	1.065	1.009	1.208	1.009	0.529	-0.279
FACT0003	-0.129	-0.113	-0.339	0.012	-0.323	-0.269	0.066	-0.049	0.309	0.246
	-0.135	-0.134	-0.401	-0.050	-0.378	-0.656	-0.193	-0.518	-0.002	-0.380
FACT0001	OTU 131	OTU 133	OTU 134	OTU 137	OTU 139	OTU 141	OTU 142	OTU 146	OTU 148	OTU 149
FACT0002	-0.089	0.051	-0.565	-0.483	-0.786	-0.393	-0.193	-0.606	-0.093	-0.076
FACT0003	0.045	0.207	0.155	-0.193	0.323	-0.048	0.006	0.145	-0.414	0.466
	-0.459	0.184	-0.181	-0.256	-0.070	0.067	0.035	-0.297	-0.259	-0.317
FACT0001	OTU 156	OTU 158	OTU 159	OTU 157	OTU 160	OTU 161	OTU 163	OTU 169	OTU 169	OTU 170
FACT0002	-0.168	-0.303	-0.069	-0.229	-0.572	-0.477	-0.470	-0.173	-0.506	-0.362
FACT0003	0.359	0.492	0.315	-0.044	0.343	0.225	0.079	0.247	0.619	0.294
	0.207	-0.091	-0.009	0.134	0.085	-0.076	0.122	0.365	0.047	-0.214
FACT0001	OTU 172	OTU 173	OTU 178	OTU 175	OTU 176	OTU 178	OTU 179	OTU 180	OTU 184	OTU 185
FACT0002	1.116	0.168	0.027	0.513	0.500	-0.184	-0.065	-0.161	-0.033	0.016
FACT0003	-0.508	-0.299	0.098	-1.219	0.082	-0.089	0.057	-0.242	0.266	0.224
	-0.063	0.908	0.103	2.784	-0.165	-0.168	0.442	-0.099	-0.013	0.013

IDENTIFICATION: VALUES OF PCA COORDINATES FOR OTUS

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FACT0001	OTU 188	OTU 190	OTU 192	OTU 193	OTU 195	OTU 193	OTU 201	OTU 203	OTU 204	OTU 205
FACT0002	-0.037	-0.086	0.102	-0.224	-0.056	-0.218	-0.220	0.009	-0.045	0.092
FACT0003	0.206	0.188	0.194	0.327	0.290	0.110	0.369	0.210	0.404	0.276
	0.004	-0.079	0.295	-0.196	-0.077	-0.404	-0.108	-0.078	-0.358	0.002
FACT0001	OTU 207	OTU 208	OTU 211	OTU 214	OTU 215	OTU 217	OTU 219	OTU 222	OTU 223	OTU 224
FACT0002	-0.077	0.012	0.316	0.674	0.625	0.792	0.679	-1.199	-0.814	-0.883
FACT0003	0.200	0.132	-0.109	0.376	0.236	-0.010	-0.131	0.204	0.268	0.374
	-0.082	0.034	0.017	0.096	0.009	0.180	0.137	0.052	0.109	0.141
FACT0001	OTU 226	OTU 228	OTU 232	OTU 233	OTU 237	OTU 238	OTU 240	OTU 242	OTU 245	OTU 250
FACT0002	-0.730	-0.169	-0.307	-0.866	-0.508	-0.553	-0.492	-0.351	-0.506	-0.691
FACT0003	-0.119	-0.839	-0.089	0.120	0.331	0.160	-0.005	-0.159	-0.088	-0.053
	-0.131	0.077	-0.053	0.126	0.000	0.072	-0.114	0.091	0.162	0.166
FACT0001	OTU 253	OTU 255	OTU 257	OTU 258	OTU 261	OTU 263	OTU 265	OTU 267	OTU 269	OTU 271
FACT0002	-0.839	-0.186	-0.089	-0.312	-0.148	-0.129	-0.589	-0.484	-0.615	-0.339
FACT0003	-0.064	-0.447	-0.095	-0.085	-0.293	-0.405	-0.190	-0.107	-0.097	0.125
	0.323	0.361	0.343	0.105	0.149	0.063	0.260	0.125	0.046	0.309
FACT0001	OTU 274	OTU 275	OTU 277	OTU 279	OTU 284	OTU 285	OTU 287	OTU 290	OTU 293	OTU 294
FACT0002	-0.164	-0.399	-0.548	-0.343	-0.549	-0.592	-0.304	-0.164	-0.070	-0.258
FACT0003	0.095	-0.002	0.383	0.034	0.131	0.204	-0.367	0.054	0.185	-0.130
	0.173	0.066	0.326	0.167	0.089	0.263	0.400	0.046	-0.076	-0.114
FACT0001	OTU 299	OTU 300	OTU 302	OTU 303	OTU 304	OTU 307	OTU 309	OTU 312	OTU 315	OTU 317
FACT0002	0.834	0.692	0.987	0.698	0.891	0.954	0.779	0.801	0.761	0.699
FACT0003	0.524	0.096	-0.126	0.214	-0.446	0.227	0.166	0.032	0.271	-0.282
	0.333	-0.061	0.210	0.349	0.273	0.159	0.177	-0.101	0.230	0.211
FACT0001	OTU 323	OTU 325	OTU 328	OTU 329	OTU 331	OTU 334	OTU 335	OTU 336		
FACT0002	0.742	0.702	0.691	0.682	0.683	0.683	0.952	0.760		
FACT0003	0.141	-0.009	0.216	0.180	0.272	0.250	0.209	0.110		
	-0.256	0.450	-0.230	0.098	0.270	0.241	0.647	0.842		

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