

This table is designated APMsmig by AHC

J. Andersen New Width	APM New Width	Student New Width
7.000	3.24	3.24
5.020	11.53	11.52
4.145	6.55	6.57
3.405	6.12	6.12
6.585	19.38	19.39
9.560	8.91	8.91
3.180	3.78	3.80
11.580	11.42	11.41
6.705	11.09	11.08
6.995	5.51	5.50
3.000	9.52	9.52
3.305	12.97	12.98
14.060	7.15	7.15
16.195	2.28	2.29
7.500	21.36	21.36
5.410	5.14	5.13
7.610	10.09	10.09
8.705	10.45	10.44
9.000	3.07	3.07
2.165	2.26	2.27
4.035	6.54	6.53
7.085	37.66	37.64
5.320	5.00	5.01
7.645	10.50	10.49
5.190	6.36	6.34

This table is designated APM1 by AHC

Old Area	New Area	Old Width	New Width	New FA Width	Old FA Width
23.123	21.612	10.545	4.695	.210	.350
23.593	16.735	8.040	4.945	.370	.120
22.454	28.963	9.410	7.550	.220	1.200
35.526	18.570	13.580	3.315	.890	2.100
21.135	14.866	7.790	2.600	0.000	.800
18.215	29.578	6.085	8.150	1.000	.070
29.099	27.883	11.185	6.110	.580	.610
22.695	26.756	9.290	7.190	.380	.200
17.056	11.696	8.645	3.420	.400	1.670
17.175	29.334	8.010	8.600	0.000	2.360
32.908	30.333	14.910	8.460	.620	1.680
25.721	21.461	9.215	4.295	1.290	.850
26.651	21.601	9.630	6.820	.100	1.000
9.293	36.952	3.415	9.990	.960	.310
27.050	24.179	10.335	7.225	2.030	.730
30.561	33.050	9.915	7.945	1.090	.610
12.297	36.185	7.235	10.655	.090	.490
17.907	12.068	8.445	7.340	.720	1.430
8.580	31.273	4.590	8.300	0.000	0.000
11.132	26.780	4.640	6.855	.730	.140
25.235	11.557	7.090	2.295	.290	.220
19.975	17.409	7.915	2.910	.080	1.130
15.679	26.095	4.925	5.715	.870	1.290
16.138	24.388	5.135	5.835	.790	.530
9.779	18.489	5.010	2.860	0.000	.400
27.444	18.920	8.620	7.570	1.640	1.760
27.641	20.592	9.640	5.930	.300	0.000
13.339	19.756	5.615	6.195	1.250	.850
9.486	23.983	5.875	9.370	.580	.850
33.063	24.412	8.220	9.550	1.860	1.040
12.095	18.839	8.005	7.500	.180	.010
33.621	13.567	9.060	4.935	.730	1.360
25.581	19.953	9.000	7.340	1.340	0.000
22.953	4.475	9.010	1.960	0.000	.080
32.464	25.132	7.080	7.455	.250	.300
8.147	13.590	6.395	4.745	.770	.350
27.115	29.138	7.575	10.375	.390	.370
13.726	20.116	8.220	7.070	1.020	0.000
29.535	17.724	9.125	6.680	1.280	.310
13.900	21.684	5.675	8.570	0.000	.510
11.325	12.371	8.475	5.660	1.120	.430
8.411	17.027	5.295	6.790	.640	.010
29.501	23.193	11.730	9.105	.110	.020
16.148	17.712	5.735	7.645	.330	.270
25.761	19.756	12.365	7.440	.380	.670
24.042	10.838	11.180	3.405	.270	.440
17.088	18.014	5.190	6.705	.510	.520
11.662	6.321	3.385	3.000	.520	.530
19.636	17.027	10.955	6.935	.790	.850
31.994	11.813	9.105	5.775	.130	.410
25.222	19.145	11.635	7.860	.120	.950
8.566	4.967	7.145	3.080	.240	.370
36.282	5.164	9.985	3.125	1.250	1.090
25.022	37.828	7.680	11.320	.640	.660
8.735	16.532	7.840	4.855	.430	0.000
18.896	6.267	8.060	3.240	1.200	.460
32.875	17.241	8.965	11.925	.030	.650
5.767	23.929	5.945	11.685	1.190	.210

16.678	2.679	6.625	2.145	.090	.230
10.422	4.828	4.630	5.230	.620	.280
15.888	5.536	6.960	2.980	.060	.420
24.622	23.360	7.080	8.685	.270	.800
43.357	15.290	11.410	6.975	.190	1.340
12.091	17.310	4.750	8.595	.430	1.960
15.499	11.516	6.105	4.995	.950	.270
14.230	13.502	8.150	5.970	.740	.640
14.130	19.052	6.630	8.030	.840	.280
21.215	6.488	7.720	6.130	.600	.140
10.193	23.128	3.360	7.430	.700	.580
21.934	16.613	6.810	5.020	.500	.020
22.564	18.019	9.855	6.585	.070	1.550
15.918	6.314	5.420	3.180	2.360	.340
10.402	22.268	4.555	6.995	.230	.630
8.965	18.007	7.610	7.610	0.000	.020
17.837	4.711	7.280	2.165	.610	.600
12.211	22.755	3.760	7.645	.790	.360
8.638	12.874	7.065	4.075	.870	1.230
17.367	17.600	6.795	6.280	0.000	1.430
17.787	22.558	6.705	7.810	.840	.430
17.367	27.330	5.565	9.475	.670	.030
32.522	21.188	7.620	6.530	.400	.060
14.180	20.526	4.120	6.215	.070	.300
10.966	18.343	7.640	7.070	1.380	.820
31.143	26.854	7.090	7.490	.080	.020
9.797	14.650	5.765	6.430	.700	.010
37.803	27.702	9.085	8.630	1.160	.390
25.871	15.649	9.940	5.355	.350	.820
38.161	8.914	9.880	2.430	.680	1.180
14.280	19.887	5.185	7.445	.390	.090
15.958	12.874	5.930	5.660	.780	.020
23.783	17.484	9.590	6.145	.250	1.680
22.963	10.238	8.575	3.665	.170	.670
7.526	14.058	7.175	5.260	.440	.470
16.698	10.656	6.595	4.255	.270	.970
19.456	22.546	8.260	6.845	.390	.520
6.370	19.690	5.795	6.805	.670	.310
9.293	19.748	3.450	6.490	.560	.280
16.448	19.040	8.285	7.035	1.070	.110
37.292	17.228	8.575	6.510	.240	.810
15.769	14.476	6.825	4.790	.900	.570
7.336	18.575	6.935	4.400	.340	.270
13.600	13.429	7.970	3.585	.090	.220
16.058	30.017	5.515	8.845	.630	.050
20.555	25.273	10.490	7.190	.840	.440
7.556	20.482	9.840	7.505	1.730	.540
23.313	21.677	8.240	5.550	.500	1.500
43.840	34.945	11.905	10.830	1.240	2.410
29.412	14.807	10.925	4.405	.770	.430
26.025	40.735	6.375	12.585	3.910	.390
30.162	26.674	8.025	6.405	.870	.890
17.791	25.387	4.360	7.430	.020	.160
36.718	20.103	11.085	4.495	.190	.310
2.236	21.999	11.420	5.295	.030	1.000
4.033	21.482	3.560	6.720	.700	.300
22.000	26.789	8.795	8.135	.270	1.030
9.499	12.762	5.460	2.830	.360	.700
9.593	15.692	3.655	3.550	.220	.150
20.025	29.523	11.360	9.605	.710	.300
31.407	30.293	10.810	10.510	.340	.480

12.331	15.956	4.295	4.730	.600	.950
22.484 i'	18.495	9.865	5.350	.320	.710
17.187	21.171	6.670	6.330	.620	1.360
28.509	12.785	10.190	3.100	.360	1.100
17.751	18.897	5.960	6.005	.370	.680
24.106	13.739	7.605	4.410	.580	.930
39.685	6.445	11.435	2.950	.320	.870
37.976	9.202	13.625	3.415	.110	1.730
22.357	22.827	7.455	8.160	.960	.290
15.402	9.524	4.680	3.640	.480	.300
40.914	17.589	14.805	8.970	.660	.610
32.210	42.184	10.435	13.635	.690	.510
17.414	15.877	8.595	6.740	.600	.610
8.800	14.039	4.175	5.115	.450	.130
17.953	13.384	8.375	4.135	1.190	.330
14.866	11.822	7.455	3.750	.720	1.910
24.309	14.659	8.045	4.100	.620	.610
19.102	14.269	7.745	4.755	.430	1.290
13.447	24.217	6.265	9.490	2.300	.630
13.157	15.257	7.965	6.830	.420	2.070
14.360	22.609	4.775	8.800	.780	.270
30.328	9.237	8.605	3.225	.490	1.510
19.516	33.063	7.885	9.560	.820	.630
26.115	25.998	7.210	11.580	.840	.300
17.461	8.479	3.395	3.305	.010	.590
23.786	40.128	9.425	16.195	.690	.850
29.372	16.670	8.610	5.410	.820	.720
26.714	13.729	9.510	5.320	.920	.620
28.003	13.660	7.725	6.220	.560	.450
19.140	14.062	6.665	6.525	.490	.290
20.878	9.260	4.955	4.400	.140	.630
35.598	23.889	11.390	5.490	.380	.480
28.893	27.454	10.685	7.265	.470	1.110
9.829	17.746	4.135	4.485	.730	.550
13.297	10.071	6.805	2.895	.370	1.490
17.474	18.478	8.305	5.625	.270	.110
22.280	18.838	9.065	4.795	.510	.230
11.898	22.263	6.580	6.730	1.500	.840
11.588	18.432	6.660	5.655	.750	.740
6.582	15.308	7.210	5.750	.200	.340
12.387	25.689	7.345	7.380	.040	1.250
16.854	26.060	8.925	8.245	.450	.090
5.672	12.335	6.015	5.100	.800	.430
14.429	14.437	4.840	6.075	.510	1.320
16.068	19.453	5.870	6.170	.300	.300
19.819	19.268	5.535	6.775	.410	.410
25.855	24.737	7.220	7.875	.390	1.000
20.689	14.925	5.770	4.210	.600	.380
31.950	12.300	10.230	3.090	.320	.340
23.167	29.230	6.255	8.960	.380	.550
47.576	17.317	13.525	6.105	1.790	1.550
30.809	20.754	6.485	5.580	.440	.490
45.228	25.851	10.405	7.515	.370	.250
39.682	33.596	9.455	10.110	.600	1.410
42.130	25.399	11.300	6.505	.990	0.000
27.241	18.919	3.920	6.050	.360	.820
38.233	33.099	8.850	10.090	.620	1.540
37.214	22.764	6.275	4.280	.980	.970
32.657	30.521	6.910	6.380	.700	.480
33.699	23.310	9.995	4.630	.760	.470
22.920	44.745	11.580	12.425	2.850	.140

18.813	33.552	9.700	8.390	1.840	.360
12.597	26.097	4.105	7.470	2.240	.330
9.010	27.514	5.970	6.290	2.580	.400
12.018	25.691	7.600	10.380	.660	1.100
18.113	29.836	7.875	7.645	.490	.650
34.238	36.780	10.110	11.115	1.310	.640
19.609	18.038	5.455	3.675	.150	.570
19.918	26.701	5.885	6.955	.350	.790
20.328	16.599	6.150	3.310	.220	.280
9.953	22.172	9.645	6.420	.280	1.370
7.664	29.441	7.825	8.805	.510	.110
21.034	41.866	14.250	11.995	.050	1.120
7.988	21.441	6.460	4.430	1.140	.420
11.761	18.874	4.620	5.035	.530	.520
20.155	27.003	8.595	9.890	.400	.210
17.947	35.491	7.580	10.045	1.350	0.000
13.770	23.357	6.100	6.995	.130	.020
7.218	31.729	5.795	10.595	.250	1.450
19.339	27.014	9.765	6.985	.370	.210
12.095	33.842	7.310	10.490	.100	.660
15.822	20.939	9.080	10.375	.590	.600
4.990	13.036	6.110	7.305	.590	.560
20.991	18.527	4.055	9.165	.710	.330
30.764	9.199	7.515	4.915	.250	1.350
28.206	10.451	7.330	4.145	.250	.180
28.176	31.715	8.955	14.060	.040	.210
28.935	21.181	5.915	8.705	.710	.170
17.460	7.878	10.355	4.035	.830	.910
16.001	15.437	10.875	7.085	.490	.250
4.239	11.301	5.915	5.190	.980	.430
4.199	5.959	4.730	2.685	.230	.380
7.397	11.209	5.440	4.040	.900	.700
5.072	17.757	9.375	7.005	.430	.410
7.171	18.630	9.415	7.300	.420	.410
7.291	12.036	10.310	5.835	.070	.140
10.278	24.616	9.520	11.080	.160	.520
8.830	22.375	11.810	9.280	.300	.340
10.985	17.976	8.355	6.815	.310	.390
22.700	8.601	4.890	4.200	.660	.440
38.688	6.729	11.090	3.535	.510	.200
25.258	13.737	7.480	5.555	.770	.540
27.986	14.265	6.905	5.965	.510	.470
33.852	36.345	9.765	12.205	.650	.290
29.725	8.889	8.590	4.985	.330	.820
17.800	6.109	10.465	4.365	.970	.770
8.897	7.766	7.865	1.960	.240	.210
20.309	14.733	9.545	4.090	.320	.110
8.807	17.950	7.340	4.140	.120	.120
16.222	18.066	11.000	7.190	1.620	2.000
8.088	17.091	6.500	3.860	.440	1.000
11.085	11.656	8.040	2.575	.550	.420
15.682	25.544	10.100	7.935	.130	1.880
15.112	24.592	8.810	7.030	.220	1.620
10.196	22.908	8.110	6.790	.820	.720
17.241	14.710	9.790	4.245	.550	1.760
6.938	12.887	6.885	4.165	.330	.190
8.977	13.653	4.885	2.980	.760	.050
9.826	16.452	6.315	4.965	1.110	.350
22.580	14.699	5.485	4.515	.810	.390
38.598	17.718	10.920	4.605	.790	.620
22.090	11.378	5.250	3.980	.280	.840

29.985	15.000	7.545	4.035	.250	.610
29.435	28.667	7.095	8.645	.790	.390
27.127	13.294	7.270	3.495	.510	1.340
28.656	36.540	8.565	12.160	.240	.730
43.193	17.346	8.655	4.775	.410	.190
38.096	13.607	6.680	3.040	.660	.840
34.599	20.574	6.500	6.390	.920	1.000
34.129	20.284	6.785	6.815	.630	.310
34.949	16.707	6.150	5.755	.050	.880
32.231	19.622	5.910	7.365	.630	.580
58.202	12.396	15.195	6.000	2.000	2.210
42.027	13.097	13.170	5.315	.230	1.340
22.576	16.624	12.420	7.040	.300	1.560
9.346	15.314	6.400	5.945	.210	.360
6.468	15.774	6.025	6.260	.480	.630
14.742	25.435	9.865	10.500	3.000	1.730
17.999	13.441	8.690	5.090	.360	.860
8.876	26.423	7.760	8.975	.590	.100
6.258	19.427	6.735	5.520	.540	.110
15.245	23.815	12.455	9.075	1.850	1.490
15.462	16.716	8.445	6.900	1.140	.890
12.774	22.643	8.965	10.245	.490	2.190
27.673	28.192	13.025	8.535	.710	1.830
12.794	13.821	7.535	4.860	.540	.650
16.032	17.359	13.240	6.215	1.570	.480
12.175	18.818	8.260	8.115	1.770	.480
20.362	23.310	5.555	11.825	.510	.290
28.256	8.364	8.495	5.790	.880	.410
29.635	12.672	7.970	4.245	2.490	.280
32.563	12.477	10.255	5.580	.260	.290
25.778	14.590	6.850	7.145	1.710	2.120
35.601	22.000	9.385	10.200	.840	.270
30.334	24.826	9.395	8.930	.400	1.730
13.270	13.074	3.415	2.750	.500	.070
12.284	26.707	8.310	7.500	3.000	.920
11.565	23.897	7.715	7.715	.330	.330
8.507	20.344	6.910	6.910	.160	.160
7.198	18.823	5.705	5.705	.950	.950
15.392	20.901	8.645	7.500	3.000	.310
9.956	25.395	9.710	9.500	1.000	.020
10.436	24.907	6.890	7.500	3.000	.560
8.987	22.062	8.115	8.000	2.000	1.050
10.356	24.385	7.425	7.000	2.000	.350
7.688	20.901	6.640	7.000	2.000	.440
22.260	15.095	5.640	6.000	2.000	.400
28.096	22.062	8.035	8.000	2.000	.810
37.347	20.901	8.305	8.250	1.500	.010
39.235	24.675	6.500	6.520	.060	.200
44.612	29.029	9.865	9.000	2.000	.950
34.839	17.418	5.905	5.750	1.500	.190
37.527	20.901	6.435	7.000	2.000	.910
35.218	17.418	5.670	5.750	2.500	1.680
19.185	23.224	11.540	11.500	1.000	.660
12.150	15.095	5.150	7.000	4.000	.680
6.977	19.740	7.910	8.000	2.000	1.200
6.798	19.740	9.080	9.000	2.000	.860
6.568	18.579	7.115	7.500	1.000	.110
7.117	19.740	5.985	7.370	1.260	1.510
12.271	15.095	5.195	6.000	2.000	.150
13.220	15.095	5.485	6.000	2.000	.750
17.807	19.740	7.820	6.500	1.000	.320

32.826	39.480	9.065	9.000	0.000	.350
22.933	27.868	8.855	9.000	0.000	.270
13.160	16.256	4.445	5.000	0.000	.130
6.109	19.740	5.190	5.500	1.000	.840
11.315	25.546	10.785	11.000	2.000	1.210
19.229	30.191	8.000	7.000	2.000	0.000
16.322	31.352	8.875	8.500	1.000	.190
6.739	20.901	6.275	6.500	1.000	.470
17.371	32.513	7.365	7.000	2.000	1.150
8.447	22.062	8.860	9.000	2.000	1.840
16.861	31.352	10.345	10.500	3.000	2.850
27.204	39.480	16.030	15.000	2.000	.660
7.328	18.579	8.360	8.000	2.000	1.080
36.410	29.029	12.435	12.500	1.000	.530
38.978	32.803	10.000	10.025	.710	0.000
32.113	25.546	6.680	6.500	1.000	.400
34.991	29.029	10.495	10.500	1.000	.470
25.078	17.418	5.500	5.500	1.000	.360
30.724	23.224	8.250	8.000	2.000	.740
23.000	15.095	5.800	5.750	1.500	.880
35.451	30.191	9.400	9.500	1.000	.380
44.404	38.319	14.795	14.250	1.500	1.270
26.467	18.579	6.040	5.500	1.000	.340
22.554	24.385	8.265	7.500	1.000	.530
24.372	27.288	9.500	9.500	1.000	1.000
21.951	12.773	4.795	4.500	1.000	.250
41.797	38.319	11.910	12.500	1.000	.940
38.769	34.835	11.215	11.500	1.000	.330
30.235	25.546	6.865	7.000	0.000	.070
34.322	29.029	10.555	11.000	2.000	2.090
20.243	12.773	5.095	5.500	1.000	.490
34.612	29.029	10.260	11.000	2.000	1.520
24.749	17.418	4.565	4.500	1.000	.490
12.963	27.868	9.735	10.000	1.000	.550
4.899	19.740	6.945	7.350	1.300	.730
9.955	25.546	8.160	8.750	1.500	.420
15.002	30.191	11.530	11.500	1.000	.980
12.943	27.868	8.385	8.500	1.000	.790
8.326	22.062	9.040	9.100	.200	.080
21.027	37.158	9.865	10.500	1.000	.330
22.726	41.802	12.075	12.500	1.000	.150

This table is designated APM2 of AHC

Treatment	Old Area	New Area	Old Width	New Width	New FA Width	Old FA Width
Complete	17.947	206.880	12.085	13.369	1.683	0.000
Complete	19.229	212.081	4.754	15.246	2.057	0.000
Complete	13.726	183.963	30.105	15.964	1.398	0.000
Complete	8.735	224.950	5.499	8.335	1.427	0.000
Complete	42.130	213.983	15.016	6.328	.951	0.000
Complete	25.581	182.476	26.349	15.923	2.230	0.000
Complete	8.580	221.984	6.318	13.287	1.702	0.000
Complete	38.978	264.010	14.943	16.718	3.872	0.000
Complete	27.641	224.300	6.369	13.118	2.030	0.000
Complete	9.797	279.710	10.191	11.468	2.181	.015
Complete	8.411	155.716	7.442	14.829	1.928	.015
Complete	37.347	273.110	8.241	14.510	1.948	.015
Complete	12.095	162.280	23.762	21.365	3.318	.015
Complete	31.143	291.313	12.304	12.998	2.141	.030
Complete	29.501	212.104	17.701	18.524	2.194	.030
Complete	8.965	268.690	13.133	13.815	2.202	.030
Complete	13.770	295.906	9.725	21.848	4.530	.030
Complete	15.958	181.749	10.454	9.936	1.676	.030
Complete	21.934	151.933	10.857	8.663	1.181	.030
Complete	9.956	176.770	10.481	13.029	3.469	.030
Complete	17.367	155.670	9.872	12.979	3.702	.046
Complete	8.977	60.847	28.788	7.250	1.640	.076
Complete	16.058	210.495	7.793	9.660	.091	.076
Complete	32.522	239.491	11.149	11.667	2.004	.091
Complete	13.270	119.562	11.445	4.148	.534	.106
Partial	18.215	124.928	18.701	13.109	.901	.106
Partial	30.235	183.597	10.945	12.159	.778	.106
Partial	8.326	195.220	36.412	15.510	1.392	.122
Partial	22.953	252.850	25.365	13.903	1.103	.122
Partial	16.854	225.104	7.229	17.319	2.778	.137
Partial	14.280	217.540	9.266	10.083	.264	.137
Partial	8.876	193.953	6.372	16.313	3.627	.152
Partial	16.448	224.859	12.209	12.211	1.322	.167
Partial	17.474	218.225	7.241	13.422	1.377	.167
Partial	20.309	174.002	5.218	17.071	4.246	.167
Partial	6.258	211.330	4.738	11.175	.779	.167
Partial	6.568	220.190	32.343	16.211	3.138	.167
Partial	7.664	253.990	12.475	11.151	1.220	.167
Partial	23.593	197.647	14.818	12.343	1.225	.182
Partial	8.807	306.990	17.702	10.145	1.235	.182
Partial	8.800	183.130	1.656	12.550	.603	.198
Partial	13.160	114.320	13.087	12.379	1.778	.198
Partial	11.132	233.598	6.398	9.966	1.651	.213
Partial	21.215	276.620	12.308	16.036	2.737	.213
Partial	22.920	286.720	15.462	12.660	1.958	.213
Partial	7.291	118.530	17.437	10.541	2.737	.213
Partial	12.271	178.276	15.282	3.980	.137	.228
Partial	9.593	102.650	11.827	6.268	.431	.228
Partial	22.726	293690	35.251	6.726	.313	.228
Partial	8.507	204.831	5.017	9.288	.029	.243
Control	17.791	178.944	11.951	9.966	.566	.243
Control	28.935	206.127	10.430	12.304	1.495	.258
Control	28.206	171.710	12.686	3.943	.339	.274
Control	43.193	80.690	6.799	9.724	.017	.289
Control	6.938	157.290	31.977	8.855	.424	.289
Control	34.839	264.950	18.414	9.323	.003	.289

Control	16.322	256.990	6.149	16.803	2.548	.289
Control	38.688	146.020	18.681	7.700	0.000	.304
Control	39.235	203.890	19.363	14.392	.120	.304
Control	22.695	175.480	7.811	14.401	.515	.304
Control	19.339	231.020	13.568	16.713	.502	.319
Control	20.155	250.370	13.703	12.039	.447	.319
Control	5.767	217.780	2.478	8.205	1.575	.319
Control	8.897	175.580	2.539	16.812	.393	.319
Control	28.176	208.650	13.277	20.715	1.593	.319
Control	13.600	152.560	11.707	12.667	.325	.334
Control	25.235	254.340	10.304	15.177	1.622	.334
Control	16.678	210.980	9.562	10.714	.612	.350
Control	22.280	183.328	8.452	12.448	.615	.350
Control	21.951	394.110	.645	15.563	4.823	.380
Control	16.001	150.228	16.338	15.898	1.125	.380
Control	45.228	232.118	13.589	17.684	1.502	.380
Control	35.601	214.100	4.963	14.075	1.061	.410
Control	22.933	203.086	6.118	9.188	1.467	.410
Control	14.360	224.390	2.613	12.228	1.519	.410

This table is designated APM3 by AHC

Dead	Area	Width	FA Width	Height
0	391.100	10.421	.031	15.00
0	41.300	7.006	.420	14.00
0	69.700	6.316	.671	26.00
0	217.800	19.001	4.231	16.00
0	63.300	6.236	.359	15.00
0	79.500	4.621	.124	27.00
0	230.000	10.021	1.872	14.00
0	235.000	7.986	.140	17.00
0	383.000	20.156	3.448	16.00
0	262.600	23.421	.239	17.00
0	70.800	4.056	1.092	9.000
0	60.400	7.406	.484	10.00
0	74.600	7.061	.437	7.000
0	249.800	18.671	.546	22.00
0	90.000	8.256	2.122	6.000
0	288.900	11.851	2.340	10.00
0	83.600	6.971	.405	6.000
0	69.700	7.786	.203	17.00
0	318.000	14.671	3.605	16.00
0	96.600	6.071	.030	9.000
0	371.400	28.806	1.201	11.00
0	317.700	11.651	.187	13.00
1	86.100	9.526	1.768	8.000
1	301.700	10.716	4.373	15.00
1	78.200	9.051	3.164	9.000
1	100.300	12.321	1.090	16.00
1.	300.500	25.551	7.955	14.00
1	261.300	10.536	4.972	7.000
1	359.400	21.480	6.057	16.00
1	107.600	6.516	.859	8.000
1	222.500	14.166	4.294	16.00
1	102.700	5.480	.400	17.00
1	264.300	12.301	2.396	19.00
1	103.000	6.906	1.045	9.000
1	94.600	11.921	4.158	14.00
1	82.800	6.216	.949	11.00
1	311.100	22.066	6.447	16.00
1	100.300	6.166	2.311	15.000
1	304.200	13.401	3.706	18.000
l	133.000	6.881	1.949	14.000
1	71.900	7.211	1.853	12.000
1	307.300	10.876	3.887	30.000
1	283.300	20.206	4.204	13.000
1	81.600	5.721	2.531	20.000

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12th November 2003

UVVU

Forskningsstyrelsen Copenhagen Denmark

Since May 2001 I have been formally investigated for scientific misconduct by a Danish committee working under Forskningsstyrelsen (612-00-0005). I have strongly disputed all the allegations. However, my main worry has been the lack of a proper administrative practice and the biases of the committee, as detailed below. I would like to complain about the following seven points that I consider to have been treated in a far from just way.

1. Findings by sub-committee are not correct. I have given my data files to a colleague who is an expert on the subject considered. He has been able to arrive at the findings published in the original paper based on his own, independent calculations. He did not receive any help or advice. Hence, I suggest that the conclusions by the sub-committee are incorrect either because of their calculations or the cases included in the calculations.

Two Spanish colleagues and I have in an independent experiment arrived at similar findings as those published in the original paper. These findings were obtained without I taking part in the actual data collection. Hence, I can state that the main findings are repeatable.

The two papers reporting these findings are the following:

Herbivore effects on developmental instability and fecundity of *Quercus ilex*. - *Oecologia* (in press)(authors M. Diaz, F. Pulido and A. P. Møller).

Fruit abortion, developmental selection and developmental stability in *Quercus ilex*. *Oecologia* 135:378-385, 2003 (authors M. Diaz, A. P. Møller and F. J. Pulido).

2. Is the data file the original one. I have suggested that the committee investigates whether the file used by Mr. Rabøl, who is accusing me of misconduct, indeed is the original one, since there is good reason to believe that somebody might have tampered with the file. To the best of my knowledge there was nobody else present than Ms. Andersen and Mr. Rabøl, when MMr. Rabøl opened the file at the department. Hence, there were nobody impartial to witness that it was the original file, and that it remained intact. The veracity of the file can readily be verified. As far as I am aware, this has not been done. Hence nobody knows whether the data file used for this case is the original file. I maintain that UVVU may have accused somebody of misconduct without having verified that the file upon which this claim is being made is the original file.

In addition, I have published over 450 scientific papers with more than 80 different scientists, and never once have I had any complaints about my conduct in these collaborations. Hence, the present complaint is extraordinary. I have shown clearly in the correspondence with UVVU that Ms. Andersen, who made all the measurements, and whom I know had a problem of alcohol abuse, produced results that could not be replicated by independent measurers. This information has been transferred to UVVU. I have offered UVVU access to the original material, which is still available. However, UVVU has decided not to consider this offer, thereby implying that the current case does not derive from the inappropriate behaviour of a technician. I also note that Mr. Rabøl, who knew perfectly well why Ms. Andersen had 'nothing to do' at a department with more than 15 scientists, did not inform me about the fact that she had abuse problems, and that data provided by her might have problems of reliability.

3. Additional information not used. I have in my first letters provided information on a number of persons with whom I collected and analysed the data that are the point of dispute. I have even provided email addresses so the committee could ask the implicated persons. However, the committee has apparently no use of information from third parties that are directly involved in the case. I find it extraordinary that a committee that supposedly investigates a case do not attempt to acquire all available information that could shed light on a particular case.

4. Bias against the accused. My colleagues and I were surprised to learn from one letter by Ms. H. Koktvedgaard that J. Rabøl was entitled Dr. Rabøl, while my director and I were given the titles Mr. This is particularly odd given that Mr. Rabøl has never had a doctorate degree while both my director and I have such a degree. Superficially, this may seem unimportant. However, it clearly shows that the secretary is biased when working on this case since Mr. Rabøl

is given scientific credentials that he never has had, while my director and myself are deprived of our academic credentials despite us formally having acquired these. Such bias is unacceptable for a secretary for a scientific committee.

5. Language. I have been working in France since 1996. From the beginning when this case was raised, I have asked for the correspondence being conducted in a language that would allow my lawyer and my colleagues to read the correspondence without difficulty. This is important because it allows me to consult colleagues outside this case for advice concerning future procedures. Ms. H. Koktvedgaard has repeatedly denied this favour by sticking to letters in Danish. I find it unacceptable that a secretary of a scientific committee is unable or unwilling to communicate in an international language like English.

6. Lack of response to correspondence. I have repeatedly sent letters that apparently have gone unnoticed by the committee. For example, on 28th May 2001 I sent a formal letter asking the committee to raise a case against J. Rabøl. By the end of October 2003 I had still not received a response from the secretary, despite several complaints. Similarly, in October 2001 I formally complained about the composition of a sub-committee that was established to investigate the case. By the end of November 2001 I had still not heard anything about my complaint and why it was disregarded.

7. Conflicts of interest in a sub-committee. On 4th February 2002 I formally complained about the composition of a sub-committee that was established to investigate the case. I find it extraordinary that implicated parties in a particular case are not asked about the composition of a committee. In this particular case one member of the committee clearly had a conflict of interest since I have known him for 20 years. There are other aspects of this conflict of interest on which I can elaborate if so needed. Only in totalitarian and corrupt countries, but apparently in Denmark as well, is it legal to establish committees with clear conflicts of interest.

In addition Dr. Christiansen is strongly opposed to the research that I am conducting on humans for purely political reasons. I find the use of such a committee member inexcusable.

In comparison, I was recently asked to be a member for a similar committee in Norway (a smaller country than Denmark). When one of the parties involved complained, I was automatically asked not to participate, even though I had not been involved in the research concerned. Not so in Denmark where composition of such committees is determined using procedures similar to those used in North Korea, Cuba and China rather than those used in neighbouring countries like Norway, Sweden and Finland.

8. Jurisdiction and time delays. I have formally asked where in the background material for the committee it is described how old a case can become before being dismissed. I have also asked how a Danish committee can have jurisdiction over a person in a third country. Nowhere is the information provided in the material sent to me, and the response I received from Ms. H. Koktvedgaard does not shed any light on these questions. For example, the Max-Planck-Gesellschaft in Germany requests scientists to keep data files for 5 years, while the CNRS in France, CNR in Italy and the CSIC in Spain do not have any explicit time limits, but only request data to be kept for a reasonable, but short time after publication.

9. Dissemination of content of complaint to third parties. Mr. Rabøl has consistently transferred information on this case to third parties, including the director of my former department (a person who is completely irrelevant for the current case), and even the external committee has commented on the inappropriateness of this behaviour. UVVU has decided not to mention this aspect at all in its final report. I find this decision wrong and biased.

10. Dismissal of Mr. Rabøl. After I complained to the Chancellor of the University of Copenhagen over the state of proper academic conduct and behaviour at Department of Population Biology Mr. Rabøl and one of his colleagues were dismissed from duty. Knowing how rare such procedures are in Denmark, this should indicate that something was terribly wrong at the department where I was professor during the period 1995-1996, and where Mr. Rabøl was then working. The sub-committee and several other persons involved in this case have repeatedly commented on the fact that the case raised by Mr. Rabøl was based on personal hostility rather than factual content. UVVU decided not to mention this point at all in its final report.

I find these issues about the conduct of the Committee for Scientific Misconduct blatantly erroneous and morally and legally unjustified.

Before sending this letter to Ombudsmanden, I await your response.

Yours sincerely,

Anders Pape Møller (Professor, Research Director)