Supplementary material. Environmental parameters in group of ponds after cluster analysis on the basis of catchment land use (1, 2), type of buffer zone (I, II) and on both together (catchment land use and buffer zone, A-C).

Group of ponds	**1**		**2**			**I**		**II**			**A**		**B**		**C**		
Type of catchment	**barren-grassland-rural**		**arable**								**barren-rural**		**arable**		**arable**		
Type of buffer						**shrubs/trees**		**herbage/grasses**			**shrubs/herbage**		**herbage**		**trees/shrubs**		
N	43		122		**M-W U test**	39		126		**M-W U test**	46		85		34		**ANOVA**
Parameter	Mean	SD	Mean	SD	P	Mean	SD	Mean	SD	P	Mean	SD	Mean	SD	Mean	SD	P
Ponds																	
Area (ha)	0.35	0.41	0.19	0.28	0.0199	0.27	0.42	0.22	0.29	ns	0.33	0.41	0.16	0.19	0.27	0.44	ns
Depth (m)	1.3	1.1	1.1	0.7	ns	0.9	0.8	1.2	0.9	0.2253	1.2	1.1	1.2	0.7	0.9	0.8	0.0473
Shore length (m)	234.1	179.8	192.7	122.2	ns	190.6	141.7	183.8	142.1	ns	227.2	176.4	160.3	110.3	191.8	148.9	ns
Catchment																	
Area (ha)	11.1	21.4	16.2	23.4	0.155	17.4	25.8	13.8	21.9	ns	14.3	29.5	12.4	15.7	20.8	27.0	ns
Ohle index	57	80	172	295	<0.0001	196	401	125	198	ns	84	160	118	140	280	477	0.0006
Land use form (%)																	
Arable	9.0	15.9	88.0	16.4	<0.0001	62.2	38.6	70.2	38.4	ns	12.0	19.0	92.3	11.6	80.1	20.8	<0.0001
Grassland	20.0	35.6	3.0	6.6	ns	8.3	20.2	6.7	20.1	ns	17.8	34.6	2.2	5.3	4.8	8.9	ns
Forest	13.6	27.2	8.1	3.0	0.032	10.3	19.8	4.2	15.4	ns	16.8	27.4	0.0	0.0	4.7	10.4	<0.0001
Barren	18.1	30.0	7.6	3.0	0.0002	7.6	23.5	7.2	16.7	ns	20.1	30.1	3.0	7.7	1.5	4.7	0.0001
Rural	40.1	37.4	7.8	3.0	ns	11.0	22.8	12.9	26.8	ns	34.4	38.3	2.4	7.6	8.1	14.7	<0.0001
Buffer vegetation																	
Herbage/grasses	0.65	0.48	0.81	0.39	0.372	0.46	0.51	0.87	0.33	ns	0.70	0.47	0.92	0.28	0.48	0.51	<0.0001
Trees	0.74	0.44	0.67	0.50	0.0076	0.95	0.22	0.44	0.50	<0.0001	0.42	0.47	0.35	0.48	0.94	0.24	<0.0001
Shrubs	0.53	0.50	0.42	0.49	0.0018	0.59	0.50	0.39	0.49	ns	0.67	0.51	0.34	0.48	0.61	0.50	0.0297
Rushes	0.26	0.44	0.28	0.47	ns	0.15	0.37	0.35	0.48	ns	0.24	0.43	0.39	0.49	0.15	0.36	0.0193
ShoreTS (m)	92.7	82.0	63.2	93.6	0.0018	160.5	118.6	40.9	57.3	<0.0001	79.1	78.9	28.2	42.0	158.0	126.4	<0.0001

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Type of buffer						**shrubs/trees**		**herbage/grasses**			**shrubs/herbage**		**herbage**		**trees/shrubs**		
N	43		122		**M-W U test**	39		126		**M-W U test**	46		85		34		**ANOVA**
Parameter	Mean	SD	Mean	SD	P	Mean	SD	Mean	SD	P	Mean	SD	Mean	SD	Mean	SD	P
Aquatic vegetation																	
Helophytes	2.47	1.59	2.28	1.51	ns	2.10	1.64	2.45	1.48	ns	2.30	1.43	2.60	1.58	1.88	1.43	0.0472
Nympheids	0.53	0.96	0.28	0.60	ns	0.18	0.45	0.52	0.76	0.0053	0.54	0.94	0.48	0.65	0.18	0.39	ns
Pleustophytes	0.65	0.65	0.65	0.64	ns	0.90	0.64	0.67	0.63	0.0442	0.67	0.70	0.71	0.61	0.82	0.63	ns
Elodeids	0.79	0.97	0.74	0.73	ns	0.59	0.59	0.69	0.85	ns	0.83	1.00	0.61	0.71	0.59	0.70	ns
Phytoplankton																	
Chlorophyll a ($\mu g\ l^{-1}$)	38.6	54.71	48.5	71.23	ns	44.2	50.7	47.3	72.31	ns	37.6	53.37	50.5	73.66	53.2	77.43	ns
Zooplankton (Shannon Index)																	
Cladocera	0.657	0.610	0.775	0.574	ns	0.663	0.470	0.695	0.615	ns	0.71	0.62	0.66	0.60	0.72	0.48	ns
Rotifera	1.414	0.676	1.556	0.709	ns	1.430	0.602	1.582	0.727	ns	1.54	0.71	1.60	0.73	1.42	0.63	ns
Hydrochemistry																	
Conductivity ($\mu S\ cm^{-1}$)	875	417	675	446	0.0021	737	327	729	477	ns	868	412	645	475	758	362	0.0020
Total phosphorus ($mg\ P\ l^{-1}$)	0.50	1.58	0.54	0.62	ns	0.45	0.53	0.56	0.61	ns	0.45	0.48	0.60	0.66	0.47	0.55	ns
Nitrate ($mg\ N\text{-}NO_3\ l^{-1}$)	0.33	1.61	0.38	0.53	ns	0.26	0.28	0.40	1.06	ns	0.31	0.38	0.34	0.62	0.22	0.13	0.0474
DIN ($mg\ N\ l^{-1}$)	1.91	2.62	3.15	2.81	ns	2.51	2.21	2.74	2.79	ns	2.2	2.22	2.82	2.77	3.01	3.37	ns
Hardness ($mg\ CaCO_3\ l^{-1}$)	368.5	271.6	387.7	202.0	ns	402.8	250.1	308.4	208.6	0.0152	369.6	263.9	284.9	203.4	392.9	182.4	0.0068