

Electronic Supplementary Material

Habitat use of breeding birds in Central European reed beds

Wetlands Ecology and Management

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ESM1. List of studied wetlands and their coordinates and basic characteristics. OP – observational point; FW – field wetland, FP – fishpond, LW – line wetland, PL – peatland, FWR – field wetland with reservoir; PLA – protected landscape area, NR/NM – Nature reserve/Nature monument, IBA - Important Bird and Biodiversity Area.

| Name of wetland (name of OP) | X-coordinate (S-JTSK Krovak) | Y-coordinate (S-JTSK Krovak) | Type of wetland | Area of whole wetland (ha) | Area of wetland counted by OP (%) | Protection | Bird species (n) / Wetland species (n) |
|----------------------------------|------------------------------------|------------------------------------|--------------------|-------------------------------------|--|------------|---|
| Doubravice (1) | -680109 | -999609 | FW | 1,46 | 53 | PLA | 18/1 |
| Rybník Hrudka (2) | -679926 | -1001737 | FP | 5,53 | 14 | PLA, NR | 17/4 |
| Pod Rokytňákem (3) | -679513 | -1001416 | FW | 1,09 | 51 | PLA | 14/1 |
| Rokytnice (4) | -679994 | -1000791 | FW | 1,1 | 61 | PLA | 13/1 |
| Valdštejsko (5-6) | -682294 | -997077 | LW | 2,48 | 35 | PLA | 18/3 |
| Za Rokytňákem (7-8) | -679337 | -1001676 | FW | 2,47 | 54 | PLA | 24/5 |
| Javornice (9-10) | -674369 | -1007610 | LW | 2,67 | 50 | PLA | 19/2 |
| Rybník Křížák (11-12) | -681166 | -996570 | FP | 3,79 | 27 | | 20/6 |
| Libunecké rašeliníště (13-14) | -676124 | -1006487 | PL | 8,81 | 18 | PLA, NM | 14/3 |
| Liščí Kotce (15-17) | -676157 | -1002896 | FW | 3,97 | 59 | | 23/3 |
| Štěpánovice (18) | -678549 | -999679 | FW | 1,38 | 57 | | 11/0 |
| Sedmihorské slatiny (19-27) | -681676 | -997688 | PL | 23,67 | 29 | PLA | 40/10 |
| Sekerkovy Loučky (28) | -680256 | -996327 | FW | 0,85 | 69 | | 13/1 |
| Malý Porák (29-32) | -674688 | -1012444 | LW | 5,61 | 47 | | 25/10 |
| Ostruženský rybník (33-36) | -675223 | -1012054 | FP | 38,47 | 8 | NM | 35/14 |
| Rybník Turecká (37-40) | -674604 | -1012086 | FP | 10,55 | 29 | NM | 37/12 |
| Rybník Brodek (41-42) | -692761 | -1006255 | FP | 8,18 | 17 | | 29/14 |
| Nový rybník (43) | -693893 | -1006210 | FP | 15,14 | 5 | | 10/6 |
| Nad Novým rybníkem (44-45) | -693309 | -1006136 | FW | 5,94 | 26 | | 20/9 |
| Komárovský rybník (46-48) | -690158 | -1003081 | FP | 46,37 | 5 | PLA | 25/12 |
| Vesec u Sobotky (49) | -685149 | -1006041 | FP | 2,14 | 30 | PLA | 15/3 |
| Veselá (50) | -697519 | -1002007 | FW | 2,07 | 38 | | 15/5 |
| Přestavlky (51) | -694963 | -1001366 | FP | 2,86 | 27 | | 18/12 |
| Rybník Žabakor (52-54) | -691263 | -998249 | FP | 70,42 | 3 | PLA, NR | 29/15 |
| Všeň (55-56) | -687461 | -998362 | FWR | 1,3 | 58 | | 18/5 |
| Červenský rybník (57-61) | -687428 | -1009334 | FP | 52,35 | 7 | | 39/15 |
| Zámostí, Vydalov - dům (62) | -678966 | -1008155 | FW | 0,99 | 71 | | 14/1 |
| Zámostí, Vydalov - pole (63) | -679174 | -1008413 | FW | 0,93 | 46 | | 12/4 |
| Zámostí, Blata (64) | -678172 | -1008912 | FW | 1,94 | 40 | PLA | 10/5 |
| Krčák (65-67) | -681074 | -1002975 | PL | 4,77 | 49 | PLA, NR | 11/3 |
| Bezdná (68) | -680818 | -998285 | PL | 0,76 | 73 | PLA | 16/1 |
| Rybník Kojetín (69-71) | -679572 | -1026218 | FP | 7,86 | 30 | IBA, NM | 24/12 |
| Rybník Zrcadlo (72-76) | -682165 | -1026249 | FP | 63,97 | 6 | IBA | 37/20 |
| Lohovský rybník (77-79) | -684187 | -1025794 | LW | 16,19 | 15 | IBA | 24/10 |

ESM2. List of wetland bird species recorded in wetlands and their main frequency

characteristics. OP – observational point.

| Scientific name | Number of territories / OP (mean ± SD) | Number of territories / OP (range) | Number of the OP occupied | Category of conservation according to Czech law |
|-----------------------------------|--|------------------------------------|---------------------------|---|
| <i>Cygnus olor</i> | 0.0 ± 0.2 | 0 - 1 | 12 | |
| <i>Anser anser</i> | 0.1 ± 0.2 | 0 - 1 | 5 | |
| <i>Anas platyrhynchos</i> | 0.1 ± 0.5 | 0 - 3 | 26 | |
| <i>Anas strepera</i> | 0.0 ± 0.0 | | 6 | Vulnerable |
| <i>Anas crecca</i> | 0.0 ± 0.2 | 0 - 2 | 1 | Vulnerable |
| <i>Anas querquedula</i> | 0.0 ± 0.0 | | 1 | Endangered |
| <i>Aythya ferina</i> | 0.1 ± 0.5 | 0 - 4 | 11 | |
| <i>Tachybaptus ruficollis</i> | 0.0 ± 0.2 | 0 - 1 | 2 | Vulnerable |
| <i>Ardea cinerea</i> | 0.0 ± 0.0 | | 9 | |
| <i>Pandion haliaetus</i> | 0.0 ± 0.0 | | 1 | Critically endangered |
| <i>Circus aeruginosus</i> | 0.0 ± 0.2 | 0 - 1 | 18 | Vulnerable |
| <i>Rallus aquaticus</i> | 0.4 ± 0.7 | 0 - 3 | 25 | Endangered |
| <i>Gallinula chloropus</i> | 0.1 ± 0.3 | 0 - 1 | 7 | |
| <i>Fulica atra</i> | 0.2 ± 0.4 | 0 - 1 | 13 | |
| <i>Grus grus</i> | 0.0 ± 0.2 | 0 - 1 | 6 | Critically endangered |
| <i>Charadrius dubius</i> | 0.0 ± 0.0 | | 1 | |
| <i>Vanellus vanellus</i> | 0.0 ± 0.2 | 0 - 1 | 7 | |
| <i>Tringa nebularia</i> | 0.0 ± 0.0 | | 2 | |
| <i>Gallinago gallinago</i> | 0.0 ± 0.1 | 0 - 1 | 3 | Endangered |
| <i>Lymnocyptes minimus</i> | 0.0 ± 0.0 | | 1 | |
| <i>Chroicocephalus ridibundus</i> | 0.0 ± 0.0 | | 2 | |
| <i>Riparia riparia</i> | 0.0 ± 0.0 | | 1 | Vulnerable |
| <i>Motacilla cinerea</i> | 0.0 ± 0.0 | | 1 | |
| <i>Luscinia svecica</i> | 0.2 ± 0.4 | 0 - 1 | 20 | Endangered |
| <i>Acrocephalus schoenobaenus</i> | 1.1 ± 1.2 | 0 - 4 | 66 | |
| <i>Locustella naevia</i> | 0.3 ± 0.5 | 0 - 2 | 20 | |
| <i>Locustella fluviatilis</i> | 0.1 ± 0.3 | 0 - 1 | 9 | |
| <i>Locustella luscinioides</i> | 0.4 ± 0.6 | 0 - 2 | 24 | Vulnerable |
| <i>Acrocephalus scirpaceus</i> | 1.1 ± 1.0 | 0 - 4 | 50 | |
| <i>Acrocephalus arundinaceus</i> | 0.2 ± 0.4 | 0 - 1 | 12 | Endangered |
| <i>Panurus biarmicus</i> | 0.0 ± 0.1 | 0 - 1 | 1 | Endangered |
| <i>Remiz pendulinus</i> | 0.0 ± 0.0 | | 5 | Vulnerable |
| <i>Emberiza schoeniclus</i> | 1.0 ± 0.7 | 0 - 3 | 66 | |

ESM3. (a) Small fishpond (wetland locality Vesec u Sobotky, 2.14 ha) in contrast to (b) a large fishpond (Červenský rybník, 52.35 ha) illustrating wetlands containing a reservoir with open water surface and (c) small field wetland (Zámostí, Vydalov - pole, 0.93 ha) in contrast to (d) large peatland (Sedmihorské slatiny, 23.67 ha) illustrating wetlands as remaining patches within a landscape. Photo: Vojtěch Šťastný.

