

Contents

Piotr Tryjanowski, Tim H. Sparks & Leszek Jerzak

Introduction. White Stork *Ciconia ciconia* research in Poland:
where we are and where we are going? 7

Jarosław Daniluk, Aneta Korbal-Daniluk & Cezary Mitrus

Changes in population size, breeding success and nest location
of a local White Stork *Ciconia ciconia* population in Eastern Poland 15

Jakub Z. Kosicki & Stanisław Kuźniak

Long-term population size and productivity dynamics
of a local White Stork *Ciconia ciconia* population in Wielkopolska 23

Uwe Peterson & Zbigniew Jakubiec

Long-term studies of population dynamics and reproduction
of the White Stork *Ciconia ciconia* in the region of its highest density 35

Sławomir Rubacha & Leszek Jerzak

Changes in the White Stork *Ciconia ciconia* population number, density
and breeding places in Zielona Góra region 1926–2004 47

Stanisław Kuźniak

White Storks *Ciconia ciconia* in South-Western Wielkopolska (Poland)
in 1974, 1984 and 1994 55

Grzegorz Kopij

Population dynamics and reproductive success of the White Stork
Ciconia ciconia over 100 years in neighbouring upland
and lowland farmlands in Silesia 69

Andrzej Wuczyński

Colonization of new territories: the White Stork *Ciconia ciconia* distribution
and population changes in the Sudeten Mountains (Poland) 79

Jacek J. Nowakowski & Barbara Wasilewska

The relationship between spatial distribution, intra-population competition
and the reproduction parameters of White Stork *Ciconia ciconia*
in the southern basin of the Biebrza river during the years 1994–1999 99

<i>Zbigniew Jakubiec</i> Colonial breeding of the White Stork <i>Ciconia ciconia</i> in a riverine forest near Wrocław (S Poland)	115
<i>Michał Przybycin</i> Results of a White Stork <i>Ciconia ciconia</i> survey on the “Stare Miasto” study plot (E Wielkopolska)	125
<i>Zbigniew Wojciechowski & Tomasz Janiszewski</i> The effect of biotopic conditions on the density of a White Stork <i>Ciconia ciconia</i> population in Central Poland	133
<i>Jacek J. Nowakowski</i> The influence of weather and intrapopulation competition on breeding success of the White Stork <i>Ciconia ciconia</i> population in the southern basin of the Biebrza river valley	143
<i>Marcin Rachel</i> Foraging sites of breeding White Storks <i>Ciconia ciconia</i> in the South Wielkopolska region	161
<i>Jakub Z. Kosicki, Piotr Profus, Paweł T. Dolata & Marcin Tobółka</i> Food composition and energy demand of the White Stork <i>Ciconia ciconia</i> breeding population. Literature survey and preliminary results from Poland	169
<i>Zbigniew Kwieciński, Honorata Kwiecińska, Radosław Ratajszczak, Piotr Ćwiertnia & Piotr Tryjanowski</i> Food selection of the White Stork <i>Ciconia ciconia</i> under captive conditions	185
<i>Zbigniew Kwieciński, Honorata Kwiecińska, Radosław Ratajszczak, Piotr Ćwiertnia & Piotr Tryjanowski</i> Digestive efficiency in captive White Storks <i>Ciconia ciconia</i>	195
<i>Leszek Jerzak, Marcin Bocheński & Paweł Czechowski</i> Unusual feeding behaviour of the White Stork <i>Ciconia ciconia</i> in the Kłopot colony (W Poland)	203
<i>Marcin Antczak & Paweł T. Dolata</i> Night roosts, flocking behaviour and habitat use of the non-breeding fraction and migrating White Storks <i>Ciconia ciconia</i> in the Wielkopolska region (SW Poland)	209

<i>Piotr Indykiewicz</i> House Sparrow <i>Passer domesticus</i> , Starling <i>Sturnus vulgaris</i> , Tree Sparrow <i>Passer montanus</i> and other residents of nests of the White Stork <i>Ciconia ciconia</i>	225
<i>Grzegorz Orłowski, Ryszard Polechoński, Wojciech Dobicki, Paweł T. Dolata & Małgorzata Bednarska</i> Heavy metal concentrations in feathers of White Storks <i>Ciconia ciconia</i> nesting in Central Poland: methodological implications for further ecotoxicological studies	237
<i>Wojciech Kania</i> Movements of Polish White Storks <i>Ciconia ciconia</i> – an analysis of ringing results	249
<i>Marcin Bocheński & Leszek Jerzak</i> Behaviour of the White Stork <i>Ciconia ciconia</i> : a review	295
<i>Bożena Kiziewicz, Bożenna Mazalska, Elżbieta Muszyńska & Anna Godlewska</i> Fungi isolated from surface waters in Białystok (NE Poland) using sterilized White Stork <i>Ciconia ciconia</i> feathers as bait	325
<i>Mariusz Kasprzak, Anna Ponińska, Leszek Jerzak & Ewa Kulczykowska</i> Day-night variations in hematological parameters in wild juvenile White Storks <i>Ciconia ciconia</i>	339
<i>Nataliya Kurhalyuk, Piotr Kamiński, Mariusz Kasprzak & Leszek Jerzak</i> Induction of reactive species and antioxidant defence systems in the blood of White Stork <i>Ciconia ciconia</i> chicks from different environments in Poland	343
<i>Nataliya Kurhalyuk, Piotr Kamiński, Mariusz Kasprzak & Leszek Jerzak</i> Circadian periodicity of antioxidant enzymes' activity and lipid peroxidation processes in the blood of White Stork <i>Ciconia ciconia</i> chicks: results of a pilot study	353
<i>Mariusz Kasprzak, Leszek Jerzak, Elżbieta Wołk & Marcin Bocheński</i> Red blood cell parameters in juvenile White Storks <i>Ciconia ciconia</i> with reference to chick development in various weather conditions	359
<i>Piotr Kamiński, Nataliya Kurhalyuk, Mariusz Kasprzak, Małgorzata Szady-Grad & Leszek Jerzak</i> Dynamics of chemical elements in the blood of White Stork <i>Ciconia ciconia</i> chicks from polluted environments in Western Poland	373

<i>Piotr Kamiński, Nataliya Kurhalyuk, Mariusz Kasprzak, Małgorzata Szady-Grad & Leszek Jerzak</i>	
Element-element interactions in the blood of the White Stork <i>Ciconia ciconia</i> chicks from Poland	385
<i>Nataliya Kurhalyuk, Piotr Kamiński, Mariusz Kasprzak & Leszek Jerzak</i>	
Antioxidant enzymes activity and lipid peroxidation processes in the blood of White Stork <i>Ciconia ciconia</i> chicks from Western Poland . . .	395
<i>Jerzy Błoszyk & Dariusz J. Gwiazdowicz</i>	
Acarofauna of nests of the White Stork <i>Ciconia ciconia</i> , with special attention to mesostigmatid mites	407
<i>Piotr Ćwiertnia, Zbigniew Kwieciński, Piotr Tryjanowski & Tim H. Sparks</i>	
Why are White Storks <i>Ciconia ciconia</i> delivered to captivity? A case study based on the experience of Polish zoos	415
<i>Piotr Ćwiertnia, Zbigniew Kwieciński, Honorata Kwiecińska, Adam Wysocki, Piotr Tryjanowski & Ola Olsson</i>	
Sexing of White Storks <i>Ciconia ciconia</i> based on biometric measurements . .	423
<i>Zbigniew Kwieciński, Honorata Kwiecińska, Paweł Botko, Adam Wysocki, Leszek Jerzak & Piotr Tryjanowski</i>	
Plastic strings cause leg bone degeneration in the White Stork <i>Ciconia ciconia</i>	431
<i>Paweł T. Dolata</i>	
“Close to Storks” – a project of on-line monitoring of the White Stork <i>Ciconia ciconia</i> nest and potential use of on-line monitoring in education and research	437
<i>Ireneusz Kaluga</i>	
Protection of the White Stork <i>Ciconia ciconia</i> in the Mazovian Lowland . . .	449
<i>Dorota Szulc-Guziak</i>	
Natural history education based on White Stork <i>Ciconia ciconia</i> observation and protection	459
<i>Paweł T. Dolata</i>	
The White Stork <i>Ciconia ciconia</i> protection in Poland by tradition, customs, law, and active efforts	477