

## BOOK REVIEW

**Anonymous 2012. The Impacts of Invasive Alien Species in Europe. European Environmental Agency Technical Report No. 16/2012, 155 pp. ISSN 1725-2237, ISBN 978-92-9213-345-0**

This book (published as European Environment Agency Technical report No. 16/2012) merits the attention of all naturalists and plant protection specialists due to the importance of the subject and the very good coverage of the topic. The European Environmental Agency periodically assigns various species of plants and animals to the Invasive Alien Species (IAS) category. The Agency monitors the entrance and spread of the IAS. Country members are advised about various measures they can undertake to avoid or reduce the negative impact of IAS on the environment and human health.

Table 3.1 lists 28 animal and plant species which seriously and negatively affect the European biodiversity, ecosystem services, human health, and the various sectors of agriculture, horticulture, and forestry. The following species are of special interest and importance: *Neovison vison*, *Rana catesbeiana*, *Batrachochytrium dendrobatidis*, *Oryctolagus cuniculus*, *Branta canadensis*, *Caulerpa taxifolia*, *Arion vulgaris*, *Vespa velutina*, *Aedes albopictus*, *Ambrosia artemisiifolia*, *Heracleus mantegazzianum*, *Rynchophorus ferrugineus*, *Cameraria ochridella*, *Sciurus carolinensis*, and *Psittacula krameri*.

In Europe, two insect species require particular attention: *Rynchophorus ferrugineus* (Coleoptera) threatening palms in Southern Europe, and *Cameraria ochridella* (Lepidoptera) seriously damaging the leaves of *Aesculus hippocastani*.

I strongly recommend this book particularly to entomologists, plant protection specialists, botanists, environmental specialists, and gardeners.

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**Zerova M.D., Kotenko A.G., Tolkanitz V.I., Nikitenko G.N., Gumovsky A.V., Sviridov S.V., Simutnik S.A., Farinets S.I., Fedorenko V.P. 2010. Atlas Jevropejskich Nasekomych-Entomofagow The Ukrainian National Academy of Sciences, Kiev, 136 pp. ISBN 978-966-8610-45-5**

Due to the 2013 obligatory implementation of the European Union's Principles of Integrated Plant Protection, those scientists, plant protection advisors, and employees of the Plant Protection Services within the EU countries will find this book very useful.

As emphasized by M.D. Zerova in the "Preface" (p. 6–9), the book covers over 200 entomophagous insects (predators and parasites) belonging to the following orders: Raphidioptera, Neuroptera, Hemiptera, Coleoptera, Hymenoptera, and Diptera. The description and characteristics of each given species is supported by excellent color photographs and drawings of the insects. The atlas also contains a "Short Vocabulary of Terms" (p. 49–50) pertinent to relationships between entomophagous and phytophagous insect species.

It is assumed that from the year 2013, there will be detailed, obligatorily principles of Integrated Pest Management which will require implementation. The basic principle of this system will favor and stimulate the presence and development of entomophagous insects – predators and parasitoids. Therefore, the presented atlas will play an important role in the recognition of the role of natural enemies because of the excellent illustrations and descriptions of the 178 entomophagous species belonging to the following orders: Ichneumonidae – 36 species, Braconidae – 47 species, Aphididae – 6 species, Chalcididae – 3 species, Perilampidae – 2 species, Eurylamidae – 7 species, Torymidae – 3 species, Pteromalidae – 8 species, Eupelmidae – 3 species, Encyrtidae – 9 species, Eulophidae – 31 species, Aphelinidae – 4 species, Trichogrammatidae – 2 species, Scelionidae – 2 species, and Tachinidae – 15 species.

This book also contains a short vocabulary of technical terms by S.S. Izewskii and V.V. Gulii, reprinted from 1986.

I recommend this book for all libraries with biology, agriculture, and plant protection profiles as it will be very useful for the elaboration and implementation of integrated plant protection systems and programmes.

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