Poster Session 1 – Population Dynamics

45 Recent information on population status of *Meriones dahli* that is close to extinction in the Middle East

Safak Bulut¹, Burak Akbaba², Murat Dogan¹, Kadir Ulusoy¹, Ahmet Karatas³

¹Hitit University, Faculty of Arts and Sciences Department of Molecular Biology and Genetics, Ulukavak District, TR 19040 Corum - Turkey, safakbulut@hitit.edu.tr
²Hacettepe University, Faculty of Science, Department of Biology, Ankara – Turkey
³Omer Halisdemir University, Department of Zoology (Biology), Alparslan Türkeş Avenue, TR 51240 Nigde - Turkey

*Meriones dahli* is psammophilic (living in sand) inhabiting ecologically dispersed areas and suitable habitats are fragmented. This rodent is distributed in a small area spread over the northern skirts of Mount Ararat on the borders of Igdir province in Turkey. Abu jail (*Calligonum polygonoides*) is found in the desert ecosystem where the plant is dominant, and *Meriones dahli* lives in the burrows dug into the bottom of the Abu jail plant. In the mid-1980s, the global population size was estimated to be 5,000-6,000 individuals. The information about the *Meriones dahli* population seems to consist of scattered records, but there is a steady decline in populations according to the information available. Within the scope of the study, the counting method used in the species action plan was used in determining the population size. Considering that it is breeding 3 times a year according to the literature data, about 10 days after the first frying season, field trials were initiated and 100 Sherman type traps were used during the landing (5 consecutive days). The mark-recapture method was used according to the transect method and the traps were spread homogeneously over the whole area starting from the point locations given in the literature records, leaving a 10 m gap between the traps. At the end of the study, a total of 4 individuals were caught and 1 of them was juvenile, 1 was female and 2 were males. The cause of the sudden decline in the population is observed as habitat disposal, material intake, construction activities and excessive grazing. Some suggestions have been made to prevent this decline: protecting the area immediately; suggesting the selection of alternate areas by the Municipality of Aralık as a garbage area; organization of training activities in the towns and villages of muhtars, schools and settlements in Aralık, especially raising awareness of shepherds; field type information displayed on signboard and warning plate.
Jens Jacob, Jana Eccard (Editors)

6th International Conference of Rodent Biology and Management and
16th Rodens et Spatium

Potsdam, Germany, 3-7 September 2018

Book of Abstracts
Editors:
Jens Jacob\(^1\) and Jana Eccard\(^2\)
\(^1\)Julius Kuehn Institute, Federal Research Centre for Cultivated Plants, Institute for Plant Protection in Horticulture and Forests, Vertebrate Research, Toppheидeweg 88, 48161 Münster, Germany
\(^2\)University of Potsdam, Institute of Biochemistry and Biology, Animal Ecology Group, Maulbeerallee 1, 14469 Potsdam, Germany

Local Organizing Committee:
Jana Eccard, University of Potsdam
Jens Jacob, Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Münster
Daniela Reil, Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Münster
Christiane Scheffler, University of Potsdam
Elke Seydewitz, University of Potsdam

Scientific Organizing Committee:
Emil Tkadlec (Czech Republic); Frauke Ecke (Sweden); Grant Singleton (Philippines); Heikki Henttonen (Finland); Jana Eccard (Germany); Jens Jacob (Germany); Lyn Hinds (Australia); Prince Kaleme (Congo); Xavier Lambin (UK); Zhibin Zhang (China)

International Steering Committee Rodens et Spatium:
Abraham Haim (Israel); Alexey Surov (Russia); Ana Maria Benedek (Romania); Boris Krasnov (Israel); Emil Tkadlec (Czech Republic); Éric Le Boulenge (Belgium); Farida Khammar (Algeria); František Sedláček (Czech Republic); Gert Olsson (Sweden); Grant Singleton (Australia); Heikki Henttonen (Finland); Jan Zima (Czech Republic); Jean-François Cossou (France); Linas Balčiauskas (Lithuania); Maria da Luz Mathias (Portugal); Molly McDonough (USA); Mustafa Sözen (Turkey); Nigel Yoccoz (Norway); Olga Osipova (Russia); Takuya Shimada (Japan); Victor Sánchez Cordero (Mexico); Xavier Lambin (United Kingdom); Yasmina Dahmani (Algeria)

International Steering Committee International Conference of Rodent Biology and Management:
Andrea Byrom (New Zealand); Charley Krebs (Canada); Grant Singleton (Philippines); Jens Jacob (Germany); Jiqi Lu (China); Lyn Hinds (Australia); Nico Avenant (South Africa); Peter Banks (Australia); Peter Brown (Australia); Regino Cavia (Argentina); Rhodes Makundi (Tanzania); Roger Pech (New Zealand); Steven Belmain (UK); Sudarmaji (Indonesia); Zhibin Zhang (China)

Alle Beiträge im Julius-Kühn-Archiv sind unter einer Creative Commons - Namensnennung - Weitergabe unter gleichen Bedingungen - 4.0 Lizenz veröffentlicht.