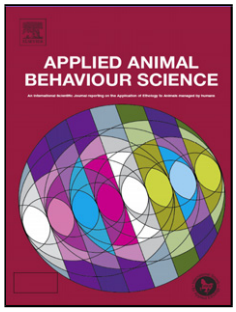

Title: Longitudinal study on human-related behaviour in horses—Can horses (*Equus caballus*) be de-domesticated?

Authors: Aleksandra Górecka-Bruzda, Zbigniew Jaworski, Mira Suwała, Marlena Boroń, Magdalena Ogłuszka, Bernadette Earley, Magdalena Sobczyńska

PII: S0168-1591(17)30162-4
DOI: http://dx.doi.org/doi:10.1016/j.applanim.2017.05.020
Reference: APPLAN 4467

To appear in: *APPLAN*

Received date: 20-2-2017
Revised date: 15-5-2017
Accepted date: 21-5-2017

Please cite this article as: Górecka-Bruzda, Aleksandra, Jaworski, Zbigniew, Suwała, Mira, Boroń, Marlena, Ogłuszka, Magdalena, Earley, Bernadette, Sobczyńska, Magdalena, Longitudinal study on human-related behaviour in horses—Can horses (Equus caballus) be de-domesticated?.Applied Animal Behaviour Science http://dx.doi.org/10.1016/j.applanim.2017.05.020

Longitudinal study on human-related behaviour in horses - Can horses (*Equus caballus*) be de-domesticated?

Aleksandra Górecka-Bruzda[1*], Zbigniew Jaworski[2], Mira Suwała[1], Marlena Boroń[3], Magdalena Ogłuszka[1], Bernadette Earley[4], Magdalena Sobczyńska[1]

[1] Institute of Genetics and Animal Breeding, Polish Academy of Sciences, Postępu 36A, 05-552 Jastrzębiec, Poland

[2] University of Warmia and Mazury, Faculty of Animal Bioengineering, Oczapowskiego 5, 10-719 Olsztyn, Poland

[3] Research Station of Ecological Agriculture and Preservation Animal Breeding, Polish Academy of Sciences, Popielno, 12-220 Ruciane-Nida, Poland

[4] Animal and Bioscience Research Department, Animal & Grassland Research and Innovation Centre, Teagasc, Grange, Dunsany, Co. Meath, Ireland

* Corresponding author at: Institute of Genetics and Animal Breeding, Polish Academy of Sciences, Postępu 36A, 05-552 Jastrzębiec, Poland. tel.: +48 22 736 71 24; fax: +48 22 756 14

Highlights

- Persistent avoidance of humans would confirm de-domestication in semi-feral horses
- Forest-born (FB) foals withdraw more from approaching human than stable (SB) foals
- At each age of testing, FB foals were physiologically more aroused
- The fearfulness had not changed either in stable or in forest born group
- De-domestication may be induced in horses by the relaxation of contact with humans