

Horse location & movements within mainland Great Britain

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Unlike livestock, in Great Britain (GB), the location and movements of horses used for recreational (leisure) purposes are not routinely recorded. Location and movement data are necessary to improve horse disease preparedness in Great Britain (GB).

The National Equine Database (NED) which records horse owner location from passport data may contain errors as it is not mandatory for an owner to notify a change of address.

Objectives

- Describe the location of horses and their owners
- Describe type and frequency of horse movements within and into mainland GB.

farget population Questionnaire validity Geographical representativeness External validity Sampling bias 0 - 25 26 - 50 51 - 75 76 - 100 101 - 319.4 □ 0 - 25 □ 26 - 50 Sampled population ■ 76 - 100 ■ 101 - 321.3 Convenience sample of GB mainland horse owners. 1000 respondents would provide +/- 3% confidence (Normal approximation to binomial distribution) NED owner data 4184 inclusions, 184 exclusions (based on postcode error) England (NE England (NW) Minimise England (SE) England (SW misclassification Internal England (WM bias validity England (YH) Pre-test questionnaire Horse numbers per region Within-study repeatability E = East, GL = Greater London, Cronbach's alpha 0.75-0.92 EM = East Midlands. WM=West Midlands. (acceptable-good) NE = North East, NW=North West SE= South East, SW = South West, YH = Yorkshire & Humber

Horse owners in urban/industrial areas ry horse density per 10km2 26 - 50 51 - 75 Distance from home premises 76 - 100 101 - 321.3 within 5 miles of premises (OR 1.84, 95%CI 1.41-2.41) Premise type Livery yards (OR 1.57, 95%CI 1.18-2.09

National horse movements LESSONS SHOWJUMPING **AFFILIATED** Word cloud: Horse activities weighted according to frequency and distance travelled to activity. Hacking occurs mostly on or near home premises Respondents more likely to travel 10 or more miles for competitions

Online questionnaire: "Survey Monkey"

Survey respondents from:

National Equine Database (23.5%)

British Horse Society (14.8%)

Horse and Hound (14.2%)

World Horse Welfare (11.2%)

Endurance GB (9.7%)

British Dressage (2.5%)

British Show jumping (0.2%)

Donkey Sanctuary (0.09%)

British Eventing (2.2%)

Facebook, Twitter (21.5%)

Data collected:

30 closed multiple choice questions 23 mandatory questions

Horse location

Land type

Premise type Distance kept from home premises

Horse management

Vaccination

Stabling (seasonal)

Horse movements

National (activities) International travel •Imports

Relevance



