

## 1st International Conference on Dog Population Management

York, 4-8 September 2012

# Conference Guide





## Welcome

On behalf of the organising committee we warmly welcome you to York for the 1<sup>st</sup> International Conference on Dog Population Management.

Humane, effective and sustainable dog population management is a challenge our society will increasingly face. The main objective of the conference is to bring the public sector together with ecologists, economists and specialists in animal welfare, animal health and education to discuss DPM.

We intend this to be the first of a series of events to be hosted in a different country every 2-3 years.

We hope you will have an enjoyable and productive visit!



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## Contents

Organisation	3
Programme at a glance	4-6
Full Conference Programme	7-12
Poster Presentations	13-14
Public Transport Information	15
Registration Desk, Coffee, Lunch, Computer Facilities	16
Social Events	17



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## **Organisation**

### **Scientific Committee**

François Meslin - WHO, World Health Organisation, Switzerland

Giovanna Massei - Fera, The Food and Environment Research Agency, UK

Alexander Wandeler - Centre of Expertise for Rabies, Canada

Katinka De Balogh - FAO, Food and Agriculture Organisation, Italy

Sarah Cleaveland - University of Glasgow, UK

Marta Martínez Avilés - OIE, World Organisation for Animal Health, France

Malika Kachani - Western University of Health Sciences, USA

Andrew Rowan – HIS, Humane Society International, USA

### **Steering Committee**

Kate Natrass Atema - IFAW, International Fund for Animal Welfare, The Netherlands

Esmée Russell -WSPA, World Society for the Protection of Animals, UK

Elly Hiby -WSPA, World Society for the Protection of Animals, UK

Pete Robertson - Fera, The Food and Environment Research Agency, UK

Mark Jones -HIS, Humane Society International, UK

Alexandra Hammond-Seaman RSPCA - The Royal Society for the Prevention of Cruelty to Animals, UK

Graham Smith - Fera, The Food and Environment Research Agency, UK

### **Organising Committee at Fera**

Giovanna Massei

Rob Chilton

Pete Robertson

Julia Coats

Fiona Bellamy

Ellen Teder

Julie Shann

## Programme at-a-glance

### Tuesday 4<sup>th</sup> September

16:00-19:00 Early registration, Queens Hotel, York

### Wednesday 5<sup>th</sup> September

08:15 Coaches from York to Fera calling at Clifford's Tower (outside Hilton Hotel)

08:50-09:30 Registration at Fera

09:30-09:50 Welcome address and conference overview (Room 12F71)

09:50-11:10 **Session 1 – General** (Room 12F71)

**11:10-11:40 Coffee Break**

11:40-13:00 **Session 2 – General** (Room 12F71)

**13:00-14:30 Lunch** (Outside Room 12F71)  
**and Posters** (Room 12F53)

14:30-15:50 **Session 3 (parallel) – DPM, rabies and other infectious diseases** (Room 12F71)

14:30-15: 50 **Session 4 (parallel) – Human attitudes and current practices** (Room 12F47)

**15:50-16:20 Coffee Break**

16:20-17:20 **Session 5 (parallel) DPM, rabies and other infectious diseases- continued** (Room 12F71)

16:20-17:20 **Session 6 (parallel) DPM in practice** (Room 12F47)

17:30-18:30 **Welcome reception**

18:30 Coaches from Fera to York

## Thursday 6<sup>th</sup> September

- 08:15 Coaches from York to Fera calling at Clifford's Tower (outside Hilton Hotel)
- 09:00-10:40 **Session 7- General** (Room 12F71)
- 10:40-11:10 Coffee Break**
- 11:10-12:30 **Session 8 – Fertility control** (Room 12F71)
- 12:30-13:50 Lunch** (Outside Room 12F71)  
**and Posters** (Room 12F53)
- 13:50-15:10 **Session 9 (parallel) - Conservation, ecology and behaviour** (Room 12F47)
- 13:50-15:10 **Session 10 (parallel) - Fertility control-continued** (Room 12F71)
- 15:10-15:40 Coffee Break**
- 15:40-17:00 **Session 11 (parallel) - Fertility control-continued** (Room 12F47)
- 15:40-17:50 **ICAM workshop** (Room 12F71)
- 17:50 Coaches from Fera to York
- 19:30-22:30 Welcome dinner and céilidh with Gaelstrom Band** at the Hospitium, Museum Gardens, York

## Friday 7<sup>th</sup> September

- 08:15 Coaches from York to Fera calling at Clifford's Tower (outside Hilton Hotel)
- 09:00-10:20 **Session 12- General** (Room 12F71)
- 10:20-10:50 Coffee Break**
- 10:50-12:10 **Session 13 – General** (Room 12F71)

- 12:20-13:40**     **Lunch** (Outside Room 12F71)  
                         **and Posters** (Room 12F53)
- 13:40-15:00     **Session 14 (parallel) - New tools** (Room 12F47)
- 13:40-15:00     **Session 15 (parallel) - Case studies** (Room 12F71)
- 15:00-15:30**     **Coffee Break**
- 15:30-16:50     **Session 16 - Case studies-continued** (Room 12F71)
- 16:50-17:20     **Concluding remarks** (Room 12F71)
- 17:30             Coaches from Fera to York

## **Saturday 8<sup>th</sup> September**

Conference trip coaches to **Castle Howard** *calling at:*

- 10:00             Clifford's Tower (outside Hilton Hotel)
- 10:30-15:00     Castle Howard
- 15:00-15:30     Coach back to York

## **Acknowledgements**

We wish to acknowledge the following:

- Rory Ellis-Hollins and the *Gaelstrom* band for the music
- Fera's IT team for assistance throughout the conference
- Jon Yates for setting up the website
- Linda Crossley for designing the conference logo
- Sarah-Louise Brown for advertising the conference



## Full Programme

### Tuesday 4<sup>th</sup> September 2012

<b>16:00-19:00</b>	<b>Early conference registration at the Queens Hotel, York</b>
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### Wednesday 5<sup>th</sup> September 2012

<b>08:15</b>	<b>Coaches from York to Fera</b>
<b>08:50-09:30</b>	<b>Conference registration</b>
<b>09:30-09:50</b>	<b>Welcome address - P. Robertson Conference overview - G. Massei</b>
<b>09:50-11:10</b>	<b>Session 1 General - Chair: F.X. Meslin (Room 12F71)</b>
09:50-10:05	Dog-borne zoonoses, particularly rabies prevention and control: striking a fair balance between public health prominence and animal welfare - F.-X. Meslin
10:05-10:20	Zoonoses control and dog population management - M. Kachani
10:20-10:35	Stray animal practices in Europe: An overview - A. Hammond-Seaman
10:35-10:50	Daring to dream – of National Guidelines for Dog Welfare - T. Helman
10:50-11:10	Questions
<b>11:10-11:40</b>	<b>Coffee break</b>
<b>11:40-13:00</b>	<b>Session 2 General - Chair: M. Martinez Aviles (Room12F71)</b>
11:40-11:55	Partners for Rabies Prevention: Working together to reduce the global burden of rabies - S. Cleaveland
11:55-12:10	The role of dog population management in rabies control - K. Hampson
12:10-12:25	OIE standards on the control of stray dog populations for rabies prevention and control - M. Martinez Aviles
12:25-12:40	Impact of dog population and rabies control strategies on people's perception of roaming dogs in Colombo city - E. Hiby
12:40-13:00	Questions
<b>13:00-14:30</b>	<b>Lunch (Outside Room12F71) &amp; Posters (Room12F53)</b>

<b>14:30-15:50</b>	<b>Session 3 (parallel) - DPM, rabies and other infectious diseases Chair: S. Cleaveland (Room 12F71)</b>
14:30-14:45	Evidence-based control of canine rabies: a critical review of population density reduction - M.K. Morders
14:45-15:00	Results from a street dog and rabies control (ABC) programme in Jaipur, India - J.F. Reece
15:00-15:15	Dog management in city parks: a one health approach investigating <i>Echinococcus multilocularis</i> , <i>Giardia</i> spp. and <i>Cryptosporidium</i> spp. in urban coyotes and domestic dogs in Calgary, Alberta, Canada - A. Massolo
15:15-15:30	Controlling rabies through “One Health” approach in Shimla Town, Himachal, India - O. Kumar
15:30-15:50	Questions
<b>14:30-15:50</b>	<b>Session 4 (parallel) Human attitudes and current practices - Chair: T. Helman (Room 12F47)</b>
14:30-14:45	Leveraging the power of tourism to help international tourist destination communities humanely control stray dog populations- D. Webster
14:45-15:00	A retrospective cohort study on investigating factors that influence 'consumer' choice when adopting a shelter dog- C. Sietou
15:00-15:15	Human attitudes towards dog owner responsibilities in a semi-rural community in south-central Chile - G. Pérez
15:15-15:30	Working with communities on canine population management in Todos Santos, Guatemala- E. Stiles (Presented by E. Garde)
15:30-15:50	Questions
<b>15:50-16:20</b>	<b>Coffee break</b>
<b>16:20-17:20</b>	<b>Session 5 (parallel) DPM, rabies and other infectious diseases -continued - Chair: M. Kachani (Room 12F71)</b>
16:20-16:35	Review of dog population management in urban China - Pei feng Su
16:35-16:50	Prevalence of infectious disease in dogs of Mainpat, India - K. C. Polak
16:50-17:05	Situation of rabies, dogs management in Viet Nam and methods prevent and control - Van Dang Ky
17:05-17:20	Questions
<b>16:20-17:20</b>	<b>Session 6 (parallel) DPM in practice - Chair: H. Eckman (Room 12F47)</b>
16:20-16:35	Demography and health of village domestic dogs west of Serengeti National Park, Tanzania - A. Czupryna
16:35-16:50	American Strays Canine Census & Film Study – T. McPhee

16:50-17:05	Stray dog population dynamics at University of Sao Paulo Campus, Brazil - R. A. Dias
17:05-17:20	Questions
17:30-18:30	<b>Welcome reception</b>
18:30	<b>Coaches from Fera to York</b>

## Thursday 6<sup>th</sup> September 2012

08:15	<b>Coaches from York to Fera</b>
09:00-10:40	<b>Session 7 General - Chair: M. Jones (Room 12F71)</b>
09:00-09:15	High Volume CNVR (Capture, Neuter, Vaccinate and Release) - M. Jones (Presented by J. Lee)
09:15-09:30	A review of the interactions between free-roaming domestic dogs and wildlife- J. Hughes
09:30-09:45	Population dynamics of free-roaming dogs in a remote Australian aboriginal community - G.Brown
09:45-10:00	Beyond The Five Freedoms: a rubric for the welfare of companion animals - H. Lentz
10:00-10:15	Rabies control in Bali: animal welfare and mass dog vaccination – E. Russell (Presented by F. Goodrum)
10:15-10:40	Questions
10:40-11:10	<b>Coffee break</b>
11:10-12:30	<b>Session 8 Fertility control- Chair: A. Rowan (Room 12F71)</b>
11:10-11:25	Non-surgical methods of dog population control - A brief overview of current and future opportunities - J. Briggs
11:25-11:40	Non-surgical sterilisation: the tip of the iceberg for dog population management - G. Massei
11:40-11:55	Advancements in a GnRH immunocontraceptive vaccine to provide effective, low cost contraception for managing feral/free ranging dogs in conjunction with rabies vaccination programs: a review - K. A. Fagerstone
11:55-12:10	Effectiveness and safety of the use of Deslorelin acetate in bitches for contraception - I. Reichler
12:10-12:30	Questions
12:30-13:50	<b>Lunch (Outside Room12F71) &amp; Posters (Room12F53)</b>

<b>13:50-15:10</b>	<b>Session 9 (parallel) Conservation, ecology and behaviour - Chair: G. Smith (Room 12F47)</b>
13:50-14:05	On the concept of dominance in domestic dogs: do free-ranging dogs live in structured social groups? Implication for management of dog populations in Italy - E. Natoli
14:05-14:20	Behaviour assessment of male dogs pre- and post surgical and non-surgical sterilization in Puerto Natales, Chile - E. Garde
14:20-14:35	Potential effects of sterilization and culling on owned dog population dynamics in urban areas of Itabirito, Brazil – Time Preliminary results - O. Santos (Presented By R. Dias)
14:35-14:50	Disease control through fertility control: Secondary benefits of animal birth control in Indian street dogs - A. Yoak
14:50-15:10	Questions
<b>13:50-15:10</b>	<b>Session 10 (parallel) Fertility control continued – Chair: G. Massei (Room 12F71)</b>
13:50-14:05	Effects of simultaneous intramuscular injections of GonaCon™ and rabies vaccine in captive female dogs ( <i>Canis familiaris</i> ) in Mexico - L. Lecuona
14:05-14:20	The use and training of zinc gluconate neutralized with l-arginine for male dog sterilization in global and shelter situations - G. R. Weedon
14:20-14:35	Use of deslorelin implants in the suppression of dogs' fertility - C. Navarro
14:35-14:50	Effects of prepubertal GnRH agonist administration in domestic cats: Preliminary results - C. Gobello
14:50-15:10	Questions
<b>15:10-15:40</b>	<b>Coffee break</b>
<b>15:40-17:00</b>	<b>Session 11 (parallel) Fertility control continued Chair: J. Briggs (Room 12F47)</b>
15:40-15:55	No adverse effects of simultaneous vaccination with the chemical sterilant zinc gluconate neutralized by arginine and a commercial rabies vaccine on rabies virus neutralizing antibody production in dogs- S. C. Bender
15:55-16:10	Calcium chloride nonsurgical sterilization: A comparative review of studies, with regulatory status and implications for field use- E. Lissner
16:10-16:25	Non-surgical contraception of male dogs with a calcium chloride based drug Chemisterisol™: clinical evaluation and its mechanism of action - K. Jana
16:25-16:40	Calcium chloride dihydrate nonsurgical sterilization in 81 dogs: Dose, formulation, and best practice implications for maximal effectiveness and minimal complications, from the first large study outside of India - R. Leoci

16:40-17:00	Questions
15:40-17:50	<b>International Companion Animal Management (ICAM) Workshop (Room 12F71) H. Eckman</b>
17:50	Coaches from Fera to York
19:30-22:30	Conference dinner & céilidh at the Museum Gardens, York

## Friday 7<sup>th</sup> September 2012

08:15	Coaches from York to Fera
09:00-10:20	<b>Session 12 General - Chair: K. Natrass Atema (Room 12F71)</b>
09:00-09:15	Dog Population Management: some thoughts - A. I. Wandeler
09:15-09:30	Assessment of the impact of rabies and its control on animal welfare for inclusion in a cost-effectiveness analysis - B. Häslar
09:30-09:45	Beyond dog population control - Developing a sustainable approach to improving dog health and welfare in remote regions of northern Canada - S. Kutz
09:45-10:00	Challenges and options to reduce stray dog numbers and irresponsible dog ownership in England - P. Claughton
10:00-10:20	Questions
10:20-10:50	Coffee break
10:50-12:10	<b>Session 13 General- Chair: A. Wandeler (Room 12F71)</b>
10:50-11:05	Dog bite rates as an index of community dog management - A. Rowan
11:05-11:20	A new system for the monitoring and evaluation of community animal welfare projects: a work in progress - K. Natrass Atema
11:20-11:35	Using clinical data to evaluate an ABC intervention - L. Hiby
11:35-11:50	The role of ecologists and evidence-based information in dog population management - G. Smith
11:50-12:10	Questions
12:20-13:40	<b>Lunch (Outside Room12F71) &amp; Posters (Room12F53)</b>
13:40-15:00	<b>Session 14 (parallel) New tools - Chair: E.Hiby (Room 12F47)</b>
13:40-13:55	Pet population management and public health: a new tool for the improvement of dog traceability - P. Dalla Villa (Presented by S. Messori)
13:55-14:10	Free-roaming dogs welfare issues in Belgrade, Serbia- M. Vucinic

14:10-14:25	Innovative solutions to improve and ease stray dog population counts in urban territories: an Italian experience - A. Giovannini (Presented by S. Barnard)
14:25-14:40	Rabies, the most neglected tropical disease in Bangladesh and One Health approach for its prevention and control - S. P. Marma
14:40-15:00	Questions
<b>13:40-15:00</b>	<b>Session 15 (parallel) Case studies - Chair: A. Ortega-Pacheco (Room 12F71)</b>
13:40-13:55	Dog population management in Nepal - K. Sharma
13:55-14:10	Road map for creating measureable outcomes from a high volume spay/neuter program on a Lakota Reservation, US - R. Steinberger
14:10-14:25	Estimating the stray dog population and assessing the general welfare of owned dogs in Lilongwe: developing strategies for dog population management in Malaw - R. K. Ssuna
14:25-14:40	Dog management issues and the meat industry - H. Bacon
14:40-15:00	Questions
<b>15:00-15:30</b>	<b>Coffee break</b>
<b>15:30-16:50</b>	<b>Session 16 Case studies continued - Chair: P. Robertson (Room 12F47)</b>
15:30-15:45	Population management within the Bill and Melinda Gates Foundation project KwaZulu-Natal, South Africa - K. Le Roux
15:45-16:00	Population Management of Feral Cats and Dogs and Wild Monkeys in Hong Kong, with notes on Shanghai - D. Burrows
16:00-16:15	Massive Dog and Cat Successful Sterilization Campaigns: a 3 years experience in Yucatan, Mexico - A. Ortega-Pacheco
16:15-16:30	Humane Dog Population & Rabies Management Project, Colombo, Sri Lanka- G. de Silva
16:30-16:50	Questions
<b>16:50-17:20</b>	<b>Concluding remarks (Room 12F71)</b>
<b>17:30</b>	<b>Coaches from Fera to York</b>

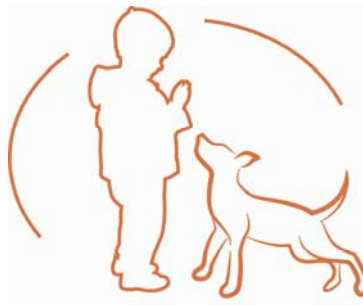
## Saturday 8<sup>th</sup> September 2012

<b>10:00</b>	<b>Coach departs from Clifford's Tower (outside Hilton Hotel) for conference trip</b>
<b>10:30-15:00</b>	<b>Castle Howard</b>
<b>15:00-15:30</b>	<b>Coach returns to York</b>

## Poster Presentations

1. **Chemical sterilization with calcium chloride: a dose-dependent study in the dog.**  
R. Leoci
2. **The no-kill policy on free-ranging dogs in Italy revisited on the basis of 21 years of implementation (Italian National Law No. 281 come out in 1991): reflections on dog management and welfare.** E. Natoli
3. **Adoptions: follow-up interviews in a Brazilian zoonosis control center.**  
A. Guilloux
4. **Two-stage cluster sampling to estimate population parameters of owned dogs and cats in urban area of Votorantim, Brazil.**  
O. Santos (Presented By R. Dias)
5. **Dog chemical castration by intratesticular injection of a calcium chloride in an alcohol solution.**  
R. Leoci
6. **Distribution and abundance of stray dogs in the province of Rieti (Lazio, Italy): basic data for management planning.**  
S. Adriani
7. **The traditional management of sheepdogs increases the number of stray dogs. A case study in the province of Rieti (Lazio, Italy).** S. Adriani
8. **Stray dogs and damage to sheep farms in the Oristano province (Sardinia, Italy).**  
S. Adriani
9. **Knowledge, attitudes and practices of rabies prevention and dog bite injuries in urban and peri-urban provinces in Cambodia, 2009.**  
E. Stiles (Presented by G. Pérez)
10. **Spatial accessibility of the no cost spay/neuter program of dogs and cats in Bogota, Colombia - Preliminary Results.**  
G. Polo Infante

11. **Characteristics of a canine distemper virus outbreak in Dichato, Chile following the February 2010 earthquake.**  
E. Garde.
12. **Animal Reproductive Scientific Research with Discovery to Focus on the Successful Implementation of Effective Dog Population Management.**  
M. Wang
13. **Hunting dogs and Aujeszky's disease in Czech Republic.** P.  
Literakova
14. **Investigating the links between dog health and human health in remote Australian indigenous communities.**  
G. Brown
15. **Molecular Epidemiology of Rabies in Southern People's Republic of China.**  
Q. Tang
16. **Neuter and return project in Romania.**  
R. Smith
17. **Population structure of introduced dogs *Canis lupus familiaris* and cats *Felis silvestris catus* in Isabela Island– Galapagos, Ecuador.**  
X. Herrera-Alvarez
18. **Human attitudes to canine rabies in Tibetan villages in Mainpat, India.**  
G. Massei



1st International Conference on  
Dog Population Management



## Public Transport Information

**Coaches for conference:** coaches are arranged for transfer between York and Fera. Coaches leave at 08:15 on Wednesday 5<sup>th</sup>, Thursday 6<sup>th</sup> and Friday 7<sup>th</sup> September from Clifford's Tower (outside Hilton Hotel). The journey from York to Fera will take approximately 30 minutes.

**Yorkshire Coastliner Bus Service:** buses run from York to Fera. Website address is: [www.yorkbus.co.uk](http://www.yorkbus.co.uk). The number **840**, **843** and **845** buses run from York (train station) to Fera. Ask for The Food and Environment Research Agency at Sand Hutton (or CSL as we were formerly known and as many of the bus drivers still refer to us). The fare is approximately £5 return.

**Taxis:** fares are approximately £15 from the centre of York to Fera one way.

**Airports:** the nearest airport to Fera is Leeds/Bradford. Taxis to Fera cost approximately £70 one way. Web address is: [www.leeds-airport-guide.co.uk](http://www.leeds-airport-guide.co.uk)

**York Railway Station:** there is a taxi rank situated outside.

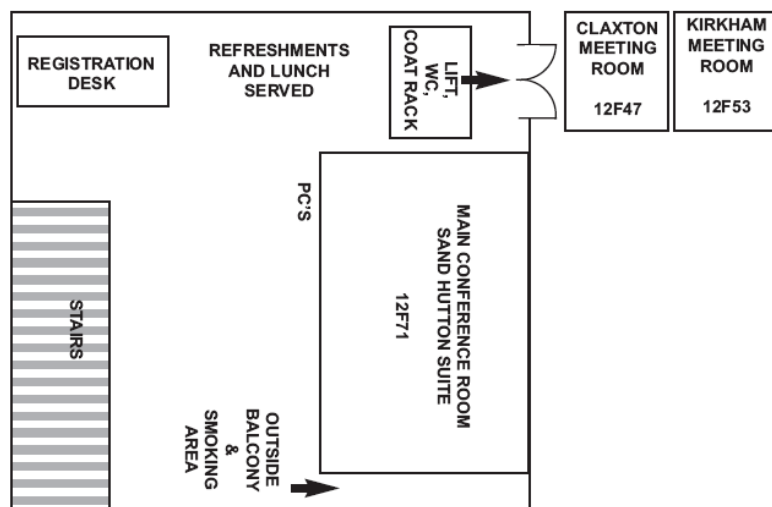
**Fera** is located 8 miles out of York City Centre.

**Registration desk/conference office:** the staff at the conference office will be happy to help you during your time at Fera. The conference office is located near the main entrance to Fera. During the conference breaks, you will find the registration desk on the first floor -see map-.

**Coffee breaks and lunch** are served on the 1<sup>st</sup> floor at Fera.

**Computer facilities:** Please feel free to use the computers provided by the conference on the 1<sup>st</sup> floor.

### Map of first floor at Fera



First Floor Mezzanine

## Social Events

A **céilidh** (Scottish dance) with buffet will be held on the evening of the **6th of September**. The buffet is included in the registration fees.

The Gaelstrom Band will play for us and invite all conference participants to dance. The céilidh will be held at the **Hospitium, Museum Gardens, York**.

On the **8th of September** we will have the conference trip. A coach will take the delegates to **Castle Howard** for a picnic and a tour of this historic English site.



Please note that the cost of the trip is not included in the conference registration fee. The bus will pick up from the from Clifford's Tower at 10:00.

## The Hospitium, Museum Gardens, York



The 14th century Hospitium is located in the centre of York, inside the Museum Gardens. The hospitium is one of the oldest surviving half-timbered buildings in York. It was originally a guest house for St. Mary's Abbey, the ruins of which are nearby.

The céilidh (*pron. "kay-lee"*) will take place here. A céilidh is a traditional Gaelic social gathering, which involves playing folk music and dancing. The term is derived from the old Irish *céle* meaning "companion". Before discos and nightclubs there were céilidhs in most town and village halls.



**Fera – The Food and Environment Research Agency**

Sand Hutton

York

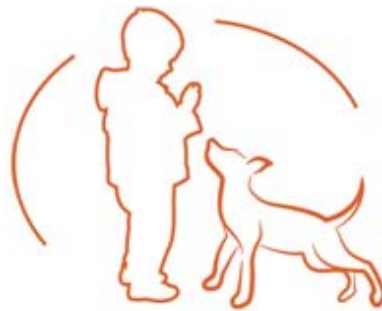
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**[www.defra.gov.uk/fera](http://www.defra.gov.uk/fera)**

**[www.dogpopulationmanagement2012.co.uk](http://www.dogpopulationmanagement2012.co.uk)**



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