

subjected to badger culling, and compared to ten similar areas with no culling. Culls were repeated annually and ended in October 2005. Previous analyses have shown that during the cull, bTB incidence in cattle within the cull zones decreased, whereas disease incidence in cattle outside cull zones increased, offsetting the benefit.

Today's study shows that after the culling finished, the number of infected herds inside cull areas was on average 37.6% lower than the number of infected herds in non-cull areas. The results also show that this benefit diminished over time after the culling ended, by 14.3% every six months. By months 43-48 after the final cull, there was no remaining beneficial effect. The research also shows that since the culling finished, the number of infected herds in two kilometre zones outside cull areas was comparable to the number of infected herds in areas outside non-cull areas.



bTB is a disease in cattle that has a serious financial impact on farmers in Britain.

The researchers also analysed the financial costs and benefits of badger culling. Over the seven and a half years during which five annual culls would have detectable benefits on the incidence of cattle bTB, culling in an area of 150 square kilometres would be expected to prevent the infection of 22.6 herds of cattle. The average cost of an infected herd has been estimated to be £27,000, meaning badger culling would save £610,200. However, the cost of a badger cull over a 150 square kilometre area would be between £1.35 million and £2.14 million, using cage trapping, snaring or gassing.

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Notes to Editors:

1. "The Duration of the Effects of Repeated Widespread Badger Culling on Cattle TB following the Cessation of Culling" PLoS ONE, Wednesday 10 February 2010. Corresponding author: Professor Christl Donnelly, Imperial College London (For a full list of authors, please see paper) Download a proof of the paper using this link:

https://fileexchange.imperial.ac.uk/files/5d415f07632/Badger%20culling%20Plos%20One.pdf

2. About Imperial College London

Consistently rated amongst the world's best universities, Imperial College London is a science-based institution with a reputation for excellence in teaching and research that attracts 14,000 students and 6,000 staff of the highest international quality.

Innovative research at the College explores the interface between science, medicine, engineering and business, delivering practical solutions that improve quality of life and the environment - underpinned by a dynamic enterprise culture.

Since its foundation in 1907, Imperial's contributions to society have included the discovery of penicillin, the development of holography and the foundations of fibre optics. This commitment to the application of research for the benefit of all continues today, with current focuses including interdisciplinary collaborations to improve health in the UK and globally, tackle climate change and develop clean and sustainable sources of energy.

Website: www.imperial.ac.uk

3. About the Zoological Society of London

Founded in 1826, the Zoological Society of London (ZSL) is an international scientific, conservation and educational charity: our key role is the conservation of animals and their habitats. The Society runs ZSL Lo ndon Zoo and ZSL Whipsnade Zoo, carries out scientific research at the Institute of Zoology and is actively involved in field conservation overseas. For further information please visit www.zsl.org.

4. About the Medical Research Council

The Medical Research Council funded Centre for Outbreak Analysis and Modelling was founded in March 2007 with Professor Neil Ferguson as Director. Its mission is to be an international resource and centre of

excellence for research on the epidemiological analysis and modelling of novel infectious disease outbreaks. The centre is part of a world-leading research group in the Department of Infectious Disease Epidemiology at Imperial College whose primary remit is to undertake applied collaborative work with national and international agencies in support of policy planning and response operations against emerging infectious disease threats.

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