

WOAH Collaborative Centre Reports Activities 2023

Activities in 2023

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Centre Information

Title of WOA Collaborating Centre	Collaborating Centre for the Economics of Animal Health in the Americas Region
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Name Director of Institute (Responsible Official):	Dustin Pendell
Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Dustin Pendell, Professor
Name of the writer:	Dustin Pendell

TOR1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOA

Category	Title of activity	Scope
Disease control (true)	CCEAH - Americas: U.S.	Currently working on three research projects: 1) Economics impacts on trade and tick diseases on US/Mexican border. 2) Evaluating the economic surplus and market assessment of vaccines. 3) Assessing the epidemiological and economic impacts of HPAI vaccine intervention in the U.S.
Training, capacity building (true)	1) Centre partners meeting, 2) Brazilian partners meeting, and 3) Centre meeting with CVP	1) Two-day meeting on September 12-13 of the Brazilian partners (USP – UnB) with Director Dustin Pendell, held at ESALQ-USP, Piracicaba, SP, Brazil. The meeting included discussion of Centre priorities and the vision for the CCAH-Americas. 2) Meeting of the Brazilian partners with the Department of Animal Health (DSA), Ministry of Agriculture and Livestock, held at the DSA headquarters in Brasilia. To present the Centre - Americas and identify expectations and demands of the Brazilian veterinary administration (federal level). 3) Presentation at the Comité Veterinario Permanente Del Cono Sur's "CVP 20 years: integration and sustainability of health, production, food security and access to markets" meeting on September 21, 2023 at Santa Cruz de la Sierra, Bolivia. The meeting included introducing the

		newly formed Centre and GBADs methodology.
Economics (true)	CCEAH - Americas Outcomes	Developing Partial Equilibrium (PE) and General Equilibrium (GE) models for GBADs. Created Living Technical Guides for the PE and GE models.
Economics (true)	CCEAH - Americas: Brazil	Developing a project where a mixed methods approach is used to classify dairy production systems in Brazil and its use in studies on the economics of animal health. The Brazilian dairy population was divided in four main categories to provide a basis for the development of bioeconomic models to assess disease burden.

TOR3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable area
GBADs methods	Aligned with the GBADs programme, the CCEAH-Americas focuses on promoting the systematic use and training on the methods for economics in animal health, for the benefit of WOAHA Members in the Americas region. The CCEAH specially supports GBADs in the following three areas: 1) Enhancing methods to estimate animal disease and health burdens, where they occur, to whom and by which causes and risk factors. 2) Expanding access to and standardization of animal disease and health burden information through the development of a shared, cloud-based, knowledge engine. 3) Improving capacity to interpret and use animal disease and health burden information.	Training and education health management Animal production
Trade harmonization	Harmonize international trade protocols for imports in the presence of animal diseases.	health management Animal production

3. In exercising your activities, have you identified any regulatory research needs* relevant for WOAHA?

No

4. Did your Collaborating Centre maintain a network with other WOAHA Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of WOAHA CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Economics of Animal Health - European Region	Liverpool, UK	Europe	Collaborating with the Director, Professor Rushton, on the GBADs programme. The Directors from Kansas State University and Washington State University are co-leads for the Wider Economic Impact theme in GBADs.

TOR4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOAHA Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate

scientific and technical studies?

Yes

Name of WOAAH CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Institute for Infectious Animal Diseases	College Station, Texas, USA	Americas	Collaborating on research project title "Measuring the Economic Impacts of African Swine Fever Virus on United States Supply Chains"
Centers for Epidemiology and Animal Health	Fort Collins, Colorado, USA	Americas	Collaborating on research project title "Analysis and Economic Impact of Highly Pathogenic Avian Influenza Control Strategies"
Animal Welfare and Sustainable Livestock Systems	Mexico City, Mexico	Americas	Analyzed the economic aspects of agroforestry systems in tropical area related to animal welfare.

TOR6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOAAH?

Yes

NAME OF EXPERT	KIND OF CONSULTANCY	SUBJECT
Dr. Dustin Pendell	Committee member for GF-TADs Partnership and Financing Panel (PFP)	Participate in monthly PFP meetings and provide feedback to Global Secretariat.
Dr. Silvia Helena G. de Miranda	WOAH external technical advisory group member	Committee member on the Economics of Antimicrobial Use and Antimicrobial Resistance (AMU/AMR).

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

Yes

The Mexican government and smallholder dairy systems benefited from advice on the economic aspects of brucellosis control in smallholders' dairy systems for producers.

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOAAH, to personnel from WOAAH Members?

No

TOR8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOAAH?

No

TOR9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOAAH that may be useful to Members of WOAAH

a) Articles published in peer-reviewed journals:

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Schrobback, P., G. Dennis, Y. Li, D. Mayberry, A. Shaw, T. Knight-Jones, T.L. Marsh, D.L. Pendell, P.R. Torgerson, W. Gilbert, B. Huntington, K. Raymond, D.A. Stacey, T. Bernardo, M. Bruce, K.M. McIntyre, J. Rushton, and M. Herrero. "Approximating the global economic (market) value of farmed animals." *Global Food Security* 39(2023).

Kappes, A., T. Toozoneyi, G. Shakil, A.F. Railey, K.M. McIntyre, D. Mayberry, J. Rushton, D.L. Pendell, and T.L. Marsh. "Livestock Health and Disease Economics: A Scoping Review of Selected Literature." *Frontiers in Veterinary Science*, section *Veterinary Epidemiology and Economics* 10(2023).

Gilbert, W., T.L. Marsh, G. Chaters, W.T. Jemburu, M. Bruce, W. Steeneveld, J.S. Afonso, B. Huntington, and J. Rushton. "Quantifying disease cost in animals: a new metric for the Global Burden of Animal Diseases." *Lancet Planetary Health* 8, 5 (2024).

b) International conferences:

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"Global Burden of Animal Diseases (GBADs) en la region del CVP". Presented at the SEMINARIO TÉCNICO INTERNACIONAL: CVP 20 años: integración y sostenibilidad de la sanidad, producción, seguridad alimentaria y acceso a mercados in Santa Cruz, Bolivia September 2023.

"A Framework for Estimating the Economic Burden of Animal Diseases". Presented at the Encontro Nacional Da Rede E Pesquisa E Inovacao em Sanidade Animal E Pecuaria Leitaria at the Federal University of Lavras, Brazil. September 2023.

"Economic Burden of Animal Health: A Case Study of the U.S. Broiler Industry" Presented at the Western Agricultural Economics Association Annual meeting in Vancouver, British Columbia. July 2023.

"Who is Burdened and By How much? Ethiopian Case Study" Presented at Society for Veterinary Epidemiology and Preventive Medicine. Toulouse, France. March 2023.

"Economic Impact of Animal Health Improvement in Ethiopia: A Partial Equilibrium Model of Small Ruminants." Presented at the Western Agricultural Economics Association Annual meeting in Vancouver, British Columbia. July 2023.

"Economic Burden of Livestock Disease: Who is burdened and by how much?" Presented at Massey University workshop meeting in Palmerston North, New Zealand. November 2023.

c) National conferences:

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"Potential Economic Welfare Impacts of African Swine Fever on the U.S. Hog Supply Chain. Presented at the Agricultural and Applied Economics Association annual meeting in Washington D.C. July 2023.

"Are Disease Equilibria Equivalent to Health Equilibria?" Presented by at the Agricultural and Applied Economics Association annual meeting in Washington D.C. July 2023.

d) Other (Provide website address or link to appropriate information):

11. What have you done in the past year to advance your area of focus, e.g. updated technology?

12. Additional comments regarding your report: