

Scoping workshop

ARS Geospatial and Environmental Epidemiology Research Unit

May 21-22, 2024

Mississippi State University
CAVS Building, Trotter Room
200 Research Blvd
Starkville, MS 39759

Meeting Purpose

The USDA Agricultural Research Service (ARS) has received funding to create a new research unit focused broadly on disease ecology, epidemiology, and animal health. This is a cooperative unit established in partnership with Mississippi State's College of Veterinary Medicine and the Geosystems Research Institute.

This meeting is a scoping workshop designed to gather information on research needs and capabilities, so a 5-year research plan can be developed. This plan will guide what type of permanent scientist positions are created for the unit and the projects ARS and the university collectively pursue.

May 21, 2024

Time	Item
8:00	Meeting arrival and coffee
8:20	Meeting Welcome – Keith Coble, Archie Tucker
8:30	National program needs in epidemiology in animal health – Roxann Motroni
8:40	Overview of Unit's mandate and workshop process – Adam Rivers
	Session 1 Understanding Stakeholder needs
8:50	APHIS VS CEAH tasks and models and needs – Tim Boyer
9:10	APHIS VS NVSL monitoring and evaluation and needs – Jessica Hicks
9:30	CDC Division of High-Consequence Pathogens and Pathology – William Bower
9:50	USGS Science to Inform Management of Wildlife Diseases Shared with Agricultural Animals – Camile Hopkins
10:10	APHIS Wildlife Services – Kim Pepin (virtual)
10:30	Break
10:45	Breakout 1 – Identifying stakeholders and their needs. 1 stakeholder per group.
11:30	Report back from breakout 1
12:00	On-site catered lunch
	Session 2 Disease ecology and Epidemiology modeling needs and opportunities

1:00	Ecosystem models of infectious disease - John Drake
1:30	Phylodynamics of HPAI– Tavis Anderson
2:00	Genomic evolution and epidemiological forecasting work - Igor Paploski
3:20	Overview of CAHFS Research Projects and Activities - Rachel Schambow
2:40	USNAMM/USDOS – Sam Smith (in-person), Lindsey Beck-Johnson (virtual)
3:00	Break
3:30	Spatiotemporal Epidemiology to Forecast Flavivirus Transmission Dynamics - Amber Money, Chad Flautt
3:45	Influenza genotyping - Carl Hutter
4:00	Mississippi State cooperative research - Kristine Evans and Bindu Nanduri
4:40	Introduction of major questions for day-two working groups – Adam Rivers
4:50	End of day
6:30	Dinner at Harvey's

May 22, 2024

8:00	Coffee
8:30	Introduction of Day 2 writing groups and tasks
8:45	Subgroups breakout
10:45	Group reporting and priority ranking
11:45	Meeting conclusion
12:00	On site Box lunch (optional)
1-5pm	For PI's only – workshop writeup