

Surveillance of arthropod vectors: WOAH guidance



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Chapter 1.5. Surveillance of arthropod vectors of animal diseases

1. What are the needs

- Improve **understanding** of the distribution and population dynamics
- Surveillance of vectors **themselves**, including competence
- **Not** address surveillance of pathogenic agents in vectors

2. What are the objectives

- Detecting **presence** or confirming **absence**
- Gathering information on **abundance**, and spatial and temporal **distribution**
- Monitoring **changes** in distribution and abundance
- Data for **risk assessment**, including competence and pathways (for vectors and pathogenic agents), and for **risk management** (prevention and control)

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3. What are the methodologies

- Sampling plan depends on biology, ecology, host animal populations, environmental conditions, high risk areas...: **need to have historical data prior to sampling**
- Three stage strategy: **stratification**, subdivision of strata into spatial sampling units, actual sampling sites
- Defining strata as homogeneous as possible with respect to known or suspected **risk factors**

4. Data management, analysis and interpretation

- As in Chapter 1.4. Animal Health Surveillance
- Use for **decision-making** on:
 - Risk management
 - Further surveillance

Thank you

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