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Asian Partnership on  
Avian Influenza Research  
(APAIR)



International Development  
Research Centre, Canada  
(IDRC)

## Social-economic Impacts of HPAI Outbreaks and Control Measures on Small-scale and Backyard Poultry Producers in Asia

Inception Workshop Report

Beijing, China, September 24-28, 2007



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APAIR Regional Coordinating Office

# **Social-economic Impacts of HPAI Outbreaks and Control Measures on Small-scale and Backyard Poultry Producers in Asia**

## **Methodology Development Workshop**

**Beijing, China**

**September 24-28, 2007**

### **INCEPTION WORKSHOP REPORT**

#### **1. Introduction**

The Inception workshop of the Socio-Economic Impact Group was hosted by the College of Humanities and Development, China Agricultural University as the Project leader and was held from 24-28 September 2007, in Meeting Room 008 at the College of Humanities and Development.

The overall objective of this workshop was to develop a common methodological framework, which will be applied in the four project countries. The main purpose of the workshop was to offer a face-to-face forum for the researchers to exchange their ideas in order to achieve an agreement on study methodologies such as criteria for site selection, sampling procedure, data collection/instruments, and questionnaire design and data processing approaches.

The workshop was attended by 17 participants from four APAIR member countries (China, Indonesia, Thailand, and Vietnam). In addition, two speakers from the Ministry of Agriculture in China, and from the Center for Agricultural Policy Studies were invited to deliver the presentation "China's Avian Influenza control strategies", and "Methodology of Economic Impact Assessment", respectively. Apart from that, Prof. Qian Minhui from the Department of Sociology, Peking University and Prof. Zhao Yandong, from the National Research Center for Science and Technology for Development were invited to give some comments on questionnaire development and sampling methodologies to the workshop's participants.

The workshop report is structured into the following sections: Section 2 summarizes workshop content. All appendices are attached in the final section, which include:

- ANNEX 1: Workshop Agenda;

- ANNEX 2: List of Participants:
- ANNEX 3: Presentation “*Avian Influenza in China: status, impacts, and government responses*”
- ANNEX 4: Presentation “*Methodology of Economic Impact Assessment*”
- ANNEX 5 : Workshop images

The following section summarizes the main topics discussed and agreed upon during the workshop:

## **2. Summaries**

### **Day 1: September 24, 2007**

#### **1.1 Opening Remarks**

Prof. Dr. Li Xiaoyun, (Dean, College of Humanities and Development, China Agricultural University) welcomed the participants to the workshop on behalf of the university. Dr. Li emphasized the importance of inter-country collaboration in AI research in general and on the socio-economic impact of AI outbreak in particular, especially on getting agreement on common methodologies among the countries.

#### **1.2 Introduction of Objective of the workshop**

Dr. Wang Libin, the project coordinator, presented slides on the main objectives of the workshop, which include: (i) development of criteria for site selection; (ii) development of procedure for sample selection; (iii) determination of sampling approach; (iv) agreement on data collection strategy and instruments; (v) agreement on contents and formats of data collection instruments (questionnaire, interview outline etc.); (vi) determination of data processing approaches (software etc.); and (vii) capacity building on research methodology for the 4 country teams.

#### **1.3 Guest Presentations**

##### ***1.3.1 Avian Influenza in China: status, impacts, and government responses***

Dr. Wang Gongmin, Director, Center for China Animal Epidemic Disease Precaution and Control, the Ministry of Agriculture of China, delivered slides on China’s Avian Influenza Control Strategies. He reviewed the poultry sector development trend in China and incidence of bird flu in China during the period from 2004 to the present. He also presented the Chinese strategies for

prevention and control of HPAI. A copy of this presentation is included in Annex 3.

### **1.3.2 Methodology of Economic Impact Assessment**

This was one of the key presentations, and is entitled “**Methodology of Economic Impact Assessment**”. It was delivered by Prof. Dr. Zhang Linxiu from the Center for Agricultural Policy Studies. Prof. Zhang introduced some methodological issues on program evaluation and impact assessment. The presentation also highlighted some strategies designed to overcome some of the biases in socio-economic studies. At the end of her presentation, she gave a presentation related to case studies on the effect of migration of children school performance in China. A copy of the presentations are included in Annex 4.

At the end of the presentation, there was discussion about how to incorporate the methodologies into the current project (Socio-economic Impact of AI outbreak and Control Measure)

### **1.4 Country Presentations**

Teams from the four countries presented their questionnaires. Generally, all four teams had already developed their own questionnaires, but they were in different formats and different scope of details.

The workshop participants had raised many questions, such as what kind of data do they need for this survey? Do they need some panels data. Why start the survey at 2004, because even in china AI started at a different time? How to get data that is precise, since the nature of some data is that there is no physical record; it must be recalled from memory.

Attitude and knowledge are data that can only be collected from individuals. Which individuals should be selected for interview? Usually what is done is to randomly select an individual in a household, as opposed to selecting the head of the household.

Some principles of survey were also mentioned: (i) Questionnaire can not be too long - less than two hours in rural areas for each individual. ii) Try to think of ways to ask the respondents. It should be more like conversation, not an interrogation. iii) Whether to ask general or specific questions. Simple questions do not require a lot of time to think about and calculate. It is quick and easy to get the answer, and the researcher can calculate later. iv) Sampling.

It was agreed that a common framework of questionnaire should be developed together by the workshop participants.

## **Day 2: September 25, 2007**

### **2.1 Group works: Key question development**

The workshop participants were grouped by country and asked to develop the key questions needed to be asked of the farmers. The key questions were developed based on the agreed framework presented in the final project proposal. The objective of the survey is to provide information on (i) Household identification; (ii) livelihood/wellbeing; (iii) Financial capital; (iv) Human capital; (v) Social capital, and (vi) Responses to AI outbreaks and control measures. However the questions still need further refining.

The participants also agreed that there is a need to obtain both quantitative and qualitative information. However, some qualitative information will be supplemented by focus group discussion and key informant interviews.

The participants were also requested to write questions on colored cards. Each country used one board to affix their written cards. Then, the cards that contained the questions most common across the four boards were selected.

The purpose of this exercise was to encourage researchers to brainstorm on the most common indicators needed to be investigated for their studies, and to facilitate common agreement among them on the questionnaire harmonization.

Prof. Qian Minhui, Peking University, an external observer, was invited to make comments on questions and questionnaire format.

## **Day 3: September 26, 2007**

### **3.1 Group work (continues)**

- Social capital
- Response to AI outbreak and Control Measures.

After reviewing definitions presented by Dr. Edi (Indonesia), the workshop participants developed more specific questions related to social capital. Some

participants found the concept of human capital to be broad and vague, but most agreed that some information related to social capital will need to be collected.

### **3.2 Site selection criteria**

The Chinese team and Indonesian team presented their site selection criteria. In plenary session, it was suggested that key site selection criteria include:

- + Representation of the vulnerable groups
- + Incidence of AI outbreak (high, medium, and low)
- + Density of poultry population
- + Representation of different control measures

The workshop participants discussed and reached consensus on the following sampling methodologies of the study:

- + From provincial to village levels, purposive sampling methods will be applied to select provinces, districts, communes, and villages
  - + At the lowest level (village), the random sampling method will be adopted to select households for interviews. A sample size of 720 poultry farmers will be used.
  - + Study period: This is a key issue discussed at the meeting. How to measure the impact of AI outbreak before and after the outbreak? The main reason mentioned was that the farmers may find it difficult to recall outbreaks that occurred a long time ago. It was agreed that the study period be from 2004 to 2007, and the period from 2005-2006 be considered as being after the AI outbreak

## **Day 4: September 27, 2007)**

### **4.1 Harmonization of a draft questionnaire**

Dr. Thanis facilitated the common questionnaire improvement based on the most common questions developed during the previous days. A draft common questionnaire was formed. It was agreed that each national team would review it and add some questions which they think are important for their own country's situations. File for this draft common questionnaire was distributed to all team during the workshop.

### **4.2 Software and format for data processing:**

Currently, each country uses a different software package (Access, Excel, SPSS, SAS) for data entry. However, all teams expressed an interest in using the same

data entry format, thus a common database should be developed, enabling the researchers to easily share their own data. Issues related to data entry and data sharing were also discussed.

### **Day 5: September 28, 2007**

#### **5.1 Wrap up**

Dr. Libin briefly reviewed the activities completed during the four days and compared them to the workshop agenda. All participants agreed that all activities planned for the workshop were achieved.

#### **5.2 Action plan agreed**

The final work plan with milestones for planned activities was agreed upon by the workshop participants as follows:

#### **Timeline of the Research Activities**

<b>No.</b>	<b>Key Activities</b>	<b>Time line</b>	<b>Milestones</b>
1	Setting up small steering committee in each country	06/2007	Meeting minutes with the committee
2	Identify national consultants	06/2007	List of consultant names
3	Literature review & secondary data collection, and form tentative methodologies and instruments	07/2007	Literature review in each country Secondary information collected
4	Cross-country methodology workshop-Beijing, China	09/2007	Agreed methodologies and data collection instruments. Data insertion and processing approaches decided. Sampling approaches determined.
5	Determination of research sites and refining of questionnaires	10/2007	Research sites selected. Pilot questionnaires finalized.
6	Pilot test of questionnaires	10/2007	Identification of areas for improvement
7	Cross-country review	11/2007	Questionnaires finalized
8	Domestic training for survey assistants and enumerators	12/2007	Training materials
9	Full scale survey	01-04/2008	Full scale survey implemented, 4 months

10	Data insert and analysis	05-08/2008	Data inserted and analyzed
11	Cross-country analytical review	06-08/2008	Data issues resolved. Approach to analysis agreed.
12	Validation with communities	09/2008	Validation results
13	Draft reports	10-11/2008	Draft report completed
14	Final workshop in Bali	11/2008	Workshop held. Approach to finalizing reports, papers agreed.
15	Finalizing the reports	12/2008 - 01/2009	Final versions completed and agreed.
16	Research dissemination	02-04/2009	Research dissemination report and documentations
17	Project evaluation	05-06/2009	Project evaluation report
<b>Total</b>		<b>24 months</b>	

### 5.3. Follow-up actions

- It was agreed that the next workshop would be in Thailand and the Faculty of Veterinary Science, the Chulalongkorn University will be the host.
- The China team will prepare the key outputs of the workshop to be submitted to IDRC and each team, such as the indicators and the key questions in the questionnaires. Detailed questions will be modified by each country.
- It was also agreed that the project should have the common data base so that the data can be compared and shared among countries, it was recommended to develop the common format of questionnaires and data insert, based upon the key questions. One country (will be identified) to take the initiative to draft the questionnaires, and other teams can provide comments and inputs



## ANNEX 1: Workshop Agenda

### Tentative schedule of the Methodology Development Workshop

China Agricultural University, 24-28 September, 2007  
Meeting Room 008, College of Humanities and Development

<b>Day 1: Monday, 24 September, 2007</b>		
<b>Time</b>	<b>Activities</b>	<b>Presenter/ Facilitator</b>
<b>Session 1 Opening and Introduction</b>		<b>Wang Libin</b>
9:00-9:10	<b>Opening Speech</b> Li Xiaoyun	
9:10-9:20	<b>Opening Remarks</b> Ministry of Agriculture	
9:20-9:30	<b>Introduction to agenda</b>	
9:30-9:45	<b>Introduce oneself to others</b>	
9:45-10:15	<b>Avian Influenza in China: status, impacts, and government responses</b> Government official (Ministry of Agriculture, China)	
10:15-10:30	<b>Tea Break</b>	
10:30-12:00	<b>Methodology of Economic Impact Assessment</b> Dr. Zhang Linxiu from Center for Agricultural Policy Studies	Wang Libin
12:00-1:30	<b>Lunch</b>	
<b>Session 2: Information and Instruments</b>		<b>Thailand Team</b>
1:30-2:15	<b>Information to be Collected and Household Questionnaire</b> (China Team)	
2:15-3:00	Comments from External Expert and other teams	
3:00-3:15	<b>Tea Break</b>	
3:15-4:00	<b>Information to be Collected and Household Questionnaire</b> (Vietnam Team)	
4:00-5:00	Comments from External Expert and other teams	
5:30	<b>Welcome dinner</b>	

<b>Day 2: Tuesday, 25 September, 2007</b>		
<b>Session 2: Information and Instruments</b>		
9:00-10:15	<b>Methodology of Social Impact Assessment</b> Senior researcher from China Academy of Social Sciences	Vietnam Team
10:15-10:30	<b>Tea Break</b>	
10:30-11:15	<b>Information to be Collected and Household Questionnaire</b> (Indonesia Team)	
11:15-12:00	Comments from External Expert and other teams	
12:00-1:30	<b>Lunch Time</b>	
1:30-2:45	<b>Information to be Collected and Household Questionnaire</b> (Thailand Team)	Indonesia Team
2:45-3:30	Comments from External Expert and other teams	
3:30-3:45	<b>Tea Break</b>	
3:45-5:00	<b>Agreement on Information to be collected and household questionnaire</b> (Team work and Plenary Discussion)	

<b>Day 3: Wednesday 26 September 2007</b>		
<b>Session 3: Qualitative Questionnaires</b>		
9:00-10:30	<b>Team Presentation on Qualitative Questionnaires</b> (Each team is allocated 20 mins)	Thailand Team
10:45-12:00	<b>Agreement on Qualitative questionnaire</b> (Team work and Plenary Discussion)	
12:00-1:30	Lunch time	
<b>Session 4: Site Selection Criteria and Sampling Procedures</b>		
1:30-3:00	<b>Team Presentation on Site Selection Criteria and Sampling Procedures</b> (Each team is allocated 20 mins)	Indonesia Team
3:00-3:15	<b>Tea Break</b>	
3:15-5:00	<b>Agreement on Site Selection Criteria and Sampling Procedures</b> (Team work and plenary discussion)	

<b>Day 4: Thursday 27 September 2007</b>		
<b>Session 5: software and format and for data processing</b>		
9:00-10:20	<b>Two team presentations</b> (each team is allocated 20 mins, and 20 mins for questions)	Vietnam Team
10:20-10:35	<b>Tea Break</b>	
10:35-12:00	<b>Two team presentations</b> (each team is allocated 20 mins, and 20 mins for questions)	
12:00-1:30	Lunch Break	
1:30-5:00	<b>Agreement on Software and format for data processing</b> (Team work and plenary discussion)	Vietnam Team
<b>Day 5 Friday 28 September, 2007</b>		
<b>Session 6: Wrap up and Future Action Plan</b>		
9:00-12:00	<b>Wrap up and Future Action Plan</b>	China Team
12:00-1:30	Fareware Lunch	
Afternoon	Free time	

**ANNEX 2: A list of the workshop's participants**

**Workshop on Social-economic Impacts of HPAI Outbreaks and Control Measures on Small-scale and Backyard Poultry Producers in Asia” Communication Catalogue**

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**ANNEX 3: Avian Influenza in China: status, impacts, and government responses**

**ANNEX 4: Methodology of Economic Impact Assessment**

Notes: Due to the weight of these documents (PowerPoint), for those of you who want to have these files, please contact: [co-office@apairesearch.net](mailto:co-office@apairesearch.net), or you can download from <http://www.APAIRearch.net/document/Workshop presentation/>

**Workshop Images**



Workshop Plenary session



Some images of the workshop



Questionnaire harmonization



Questionnaire harmonization