CNHS HOUSEHOLD SURVEY July 20, 2012

Part 1 – Interview Information

1. Interview Number: _____________________

2. Date of interview: ______ day ______ month ______ year

3. Interview start time: ______ hr ______ min □ AM □ PM

4. Interview end time: ______ hr ______ min □ AM □ PM

5. Village/block/ street name: ____________________________

6. Commune/ Ward Name: ________________________________

7. Commune/ Ward Number: ______________________________

8. District/ Town Name: _________________________________

9. District/ Town Number: ______________________________

10. Province Name: _____________________________________

11. Province Number: _________________________________

Part 2 – Respondent Information

12. Observe respondent’s gender: Male □ 1 Female □ 2

I would like to ask a few questions about yourself.

13. What is your age? _____ years

14. How would you describe your ethnicity? (Check all categories that apply)

   Kinh □ 1
   Tay □ 2
   Thai □ 3
   Chinese □ 4
   Khmer □ 5
   Muong □ 6
   Nung □ 7
   Hmong (Meo) □ 8
   Other (please describe: ________________________) □ 9
15. What is the highest level of education that you have completed? (Check only ONE box.)

Did not complete secondary school (less than 9th grade) □ 1
Completed secondary school (9th grade), but did not complete high school □ 2
Completed high school □ 3
Completed undergraduate □ 4
Completed postgraduate □ 5

16. What is your primary (main) occupation (that is, where do you spend most time working)? (Check only ONE box.)

Farmer (using own agricultural land) □ 1
Farmer (renting/ using other's agricultural land) □ 2
Farmer (using residential land) □ 3
Agricultural Laborer (i.e., contracted for hire) □ 4
Non-agricultural Wage Laborer (e.g., factory worker) □ 5
Salaried employee (e.g., shop assistant, restaurant worker, clerk, manager) □ 6
Work for self from home (e.g., industrial piece work, making tofu) □ 7
Business Owner □ 8
Homemaker □ 9
Student □ 10
Retired □ 11
Government worker □ 12
Unemployed □ 13
Other (Please specify: ___________________________) □ 14

17. What is your secondary occupation (that is, where do you next spend most time working)? (Choose all categories that apply.)

No secondary occupation □ 1
Farmer (own land for agricultural use) □ 2
Farmer (rent/ use other's agricultural land) □ 3
Farmer (residential land) □ 4
Agricultural Laborer (i.e., contracted for hire) □ 5
Non-agricultural Wage Laborer (e.g., factory worker) □ 6
Salaried employee (e.g., shop assistant, restaurant worker, clerk, manager) □ 7
Work for self from home (e.g., industrial piece work, making tofu) □ 8
Business Owner □ 9
Homemaker □ 10
Student □ 11
Retired □ 12
Government worker □ 13
Other (Please specify: ___________________________) □ 14
Part 3 – Household Characteristics

18. Do you use the following sources of fresh water for cooking?
   a. Tap water
      Yes 1, No 2
   b. Purchased water (tank, jar, bottle, …)
      Yes 1, No 2
   c. Rain water
      Yes 1, No 2
   d. Drilled well water
      Yes 1, No 2
   e. Constructed well water
      Yes 1, No 2
   f. Other well water
      Yes 1, No 2
   g. River, lake, pond water
      Yes 1, No 2
   h. Spring water
      Yes 1, No 2
   i. Other sources
      Yes 1, No 2

19. What is your main source of fresh water for cooking?  
   (Check only ONE box.)
   Tap water  □ 1
   Purchased water (tank, jar, bottle, …)  □ 2
   Rain water  □ 3
   Drilled well water  □ 4
   Constructed well water  □ 5
   Other well water  □ 6
   River, lake, pond water  □ 7
   Spring water  □ 8
   Other sources  □ 9

20. Do you use the following sources of fresh water for drinking?
   a. Tap water (boiled or unboiled)
      Yes 1, No 2
   b. Purchased water (tank, jar, bottle, …)
      Yes 1, No 2
   c. Rain water
      Yes 1, No 2
   d. Drilled well water
      Yes 1, No 2
   e. Constructed well water
      Yes 1, No 2
   f. Other well water
      Yes 1, No 2
   g. River, lake, pond water
      Yes 1, No 2
   h. Spring water
      Yes 1, No 2
   i. Other sources
      Yes 1, No 2

21. What is your main source of fresh water for drinking?  
   (Check only ONE box.)
   Tap water (boiled or unboiled)  □ 1
   Purchased water (tank, jar, bottle, …)  □ 2
   Rain water  □ 3
   Drilled well water  □ 4
   Constructed well water  □ 5
   Other well water  □ 6
   River, lake, pond water  □ 7
   Spring water  □ 8
   Other sources  □ 9
22. Do you have the following types of latrine?
   a. Household septic latrines       Yes ☐  No ☐ 2
   b. Pour-flush filtered latrines    Yes ☐  No ☐ 2
   c. Eco-latrines                    Yes ☐  No ☐ 2
   d. Ventilated improved pit latrines Yes ☐  No ☐ 2
   e. Other latrines                  Yes ☐  No ☐ 2
   f. No latrine                      Yes ☐  No ☐ 2

23. How many kilometers from your home is the place you spend most time working? ___________ km

24. What is your main mode of transportation to the place you spend most time working?  
   (Check only ONE box.)
   Walking ☐ 1
   Bus ☐ 2
   Motorbike ☐ 3
   Car ☐ 4
   Bicycle ☐ 5
   Other ☐ 6
   Not applicable ☐ 7

Can you point out the boundaries of your residential plot?

25. Was this plot created through division of an existing plot within the last 10 years?  
   Yes ☐ 1  No ☐ 2  Don’t know ☐ 3

26. What is the total area of your residential plot?  ________________ square meters

27. How many square meters of your residential plot is used for buildings (for example, for houses, outside kitchens or latrines, covered animal pens)?  
   __________ square meters

28. What is the total floor area of your house (living space) and any other house (living space) on your residential plot?  
   ________________ square meters

29. How many people currently live on your residential plot?
   a. Number of permanent residents _____
   b. Number of temporary residents_____

30. Did you live in the same commune, town, or, ward 5 years ago?  Same ☐ 1  Different ☐ 2

31. If you answered “different” in the previous question, please specify:
   a. Name of commune/town/ward: ______________
   b. Number of commune/town/ward: ___________
32. Does any woman in your household have income from non-agricultural employment?  
Yes ☐ 1  No ☐ 2

33. Do you receive money from a family member living and working elsewhere?  
(Check all that apply.)  
No, because no one lives outside here ☐ 1
No, family member(s) live outside here but don’t send money ☐ 2
Yes, all year round ☐ 3
Yes, only seasonally ☐ 4

Part 4 – Perceptions of Modernization & Risk

For the next several questions we are interested in your feelings about the built and natural world around you and how it is changing. We want to know how you feel about your commune/ward, changes in the way things are done, and how well you feel you can respond to any changes. There are no right or wrong answers.

34. I want to know how rural or urban the commune/ward you live in is. Here is a ladder, ranging from 0 to 10, where 0 means “very rural” and 10 means “very urban.” Please show me on this ladder how rural or urban you think your commune/ward is.  
(Check only ONE box.)

<table>
<thead>
<tr>
<th>Very Rural</th>
<th>A mix of rural and urban</th>
<th>Very Urban</th>
<th>Don’t know</th>
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</thead>
<tbody>
<tr>
<td>☐ 0</td>
<td>☐ 1</td>
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<td>☐ 3</td>
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<td>☐ 4</td>
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35. Over the past 10 years, has the commune/ward you live in become more urban?  
(Check only ONE box.)

| No urbanization has occurred in my commune/ward | ☐ 1 |
| Yes, my commune/ward has urbanized slowly | ☐ 2 |
| Yes, my commune/ward has urbanized rapidly | ☐ 3 |
| Don’t know | ☐ 4 |
36. Next I want to know how you feel about the process of urbanization in the commune/ward you live in. Here is a ladder, ranging from 0 to 10, where 0 means “not at all good” and 10 means “very good.” Please show me on this ladder how bad or good you think urbanization is (or would be) for your commune/ward. (Check only ONE box.)

Not at all good

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Very Good

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Don’t know

37. Over the past 10 years, have there been changes in agricultural practices (e.g., changes in seeds and crops, farming practices, or livestock raising) in the commune/ward you live in? (Check only ONE box.)

No change has occurred to agricultural practices in my commune/ward

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Yes, there have been slow changes to agricultural practices in my commune/ward

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Yes, there have been rapid changes to agricultural practices in my commune/ward

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Don’t know

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38. Next I want to know how you feel about changes in agricultural practices in the commune/ward you live in. Here is a ladder, ranging from 0 to 10, where 0 means “not at all good” and 10 means “very good.” Please show me on this ladder how bad or good you think changes in agricultural practices are (or would be) for your commune/ward. (Check only ONE box.)

Not at all good

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Very Good

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Don’t know

39. Over the past 10 years, have there been changes in the natural habitat (e.g., forests, natural wetlands, lakes) in the commune/ward you live in? (Check only ONE box.)

No change has occurred to natural habitat in my commune/ward

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Yes, there have been slow changes to the natural habitat in my commune/ward

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Yes, there have been rapid changes to the natural habitat in my commune/ward

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Don’t know

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40. Next I want to know how you feel about changes in natural habitat in the commune/ward you live in. Here is a ladder, ranging from 0 to 10, where 0 means “not at all good” and 10 means “very good.” Please show me on this ladder how bad or good you think changes in natural habitat are (or would be) for your commune/ward. (Check only ONE box.)
Next, I’d like to know how you think change overall (including changes in urbanization, agricultural practices, and the natural habitat) might affect us. Here is a ladder, ranging from 0 to 10, where 0 means “do not agree at all” and 10 means “strongly agree.” For each of the following questions, please show me on this ladder how much you do or do not agree.

41. Do you agree that change provides humans with their best hope for the future?

42. Do you agree that the good effects of change outweigh its disadvantages?

43. Do you agree that the changes are under our control?

44. Do you agree that the changes have increased disease outbreaks among poultry?

45. Do you agree that change has decreased the quality of available natural fresh water (e.g., in rivers and wells)?

46. Do you agree that change has decreased the quantity of available natural fresh water (e.g., in rivers and wells)?

Next, I’d like to know your thoughts about what causes disease (overall) in poultry. Here is a ladder, ranging from 0 to 10, where 0 means “do not agree at all” and 10 means “strongly agree.” For each of the following questions, please show me on this ladder how much you do or do not agree.

(Check only ONE box on each line.)
47. Do you agree that disease in poultry in your commune/ward is caused by air pollution?

No, I do not agree at all □  □  □  □  □  □  □  □  □  □  □

Yes, I strongly agree □  □  □  □  □  □  □  □  □  □  □

Don’t know □  □  □  □  □  □  □  □  □  □  □

48. Do you agree that disease in poultry in your commune/ward is caused by water pollution?

No, I do not agree at all □  □  □  □  □  □  □  □  □  □  □

Yes, I strongly agree □  □  □  □  □  □  □  □  □  □  □

Don’t know □  □  □  □  □  □  □  □  □  □  □

49. Do you agree that disease in poultry in your commune/ward is caused by increased volume of waste from livestock?

No, I do not agree at all □  □  □  □  □  □  □  □  □  □  □

Yes, I strongly agree □  □  □  □  □  □  □  □  □  □  □

Don’t know □  □  □  □  □  □  □  □  □  □  □

50. Do you agree that disease in poultry in your commune/ward is caused by increased volume of waste from households?

No, I do not agree at all □  □  □  □  □  □  □  □  □  □  □

Yes, I strongly agree □  □  □  □  □  □  □  □  □  □  □

Don’t know □  □  □  □  □  □  □  □  □  □  □

51. Do you agree that disease in poultry in your commune/ward is caused by increased poultry density?

No, I do not agree at all □  □  □  □  □  □  □  □  □  □  □

Yes, I strongly agree □  □  □  □  □  □  □  □  □  □  □

Don’t know □  □  □  □  □  □  □  □  □  □  □

52. Do you agree that disease in poultry in your commune/ward is caused by increased use of industrialized feed?

No, I do not agree at all □  □  □  □  □  □  □  □  □  □  □

Yes, I strongly agree □  □  □  □  □  □  □  □  □  □  □

Don’t know □  □  □  □  □  □  □  □  □  □  □

53. Do you agree that disease in poultry in your commune/ward is caused by changing weather (too cold, too hot, too humid, etc.)?

No, I do not agree at all □  □  □  □  □  □  □  □  □  □  □

Yes, I strongly agree □  □  □  □  □  □  □  □  □  □  □

Don’t know □  □  □  □  □  □  □  □  □  □  □

Now I’d like to ask your opinion about a specific type of avian influenza in poultry which is caused by a virus called “H5N1” in birds.

54. I’d like to know your opinion about how concerned you are about H5N1 in poultry in your commune/ward. Here is a ladder, ranging from 0 to 10, where 0 means “not at all concerned” and 10 means “very
Interview Number: _____________________

concerned. Please show me on this ladder how concerned you are about H5N1 in poultry in your commune/ward.
(Check only ONE box.)

<table>
<thead>
<tr>
<th>Not at all concerned</th>
<th>Very Concerned</th>
<th>Don't know</th>
</tr>
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<tbody>
<tr>
<td>□ 0 □ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10</td>
<td>□ 11</td>
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55. We want to know about outbreaks of H5N1 in your household’s poultry in the following time periods. Note that the first period (2003-2006) represents the first major outbreak of H5N1 in Vietnam.
(Check only ONE box on each line.)

<table>
<thead>
<tr>
<th>Year</th>
<th>No outbreak</th>
<th>Yes, poultry were sick because of H5N1</th>
<th>Yes, poultry died or culled because of H5N1</th>
<th>Don’t remember</th>
<th>Not sure</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003-2006</td>
<td>□ 1</td>
<td>□ 2</td>
<td>□ 3</td>
<td>□ 4</td>
<td>□ 5</td>
<td>□ 6</td>
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<tr>
<td>2007-2009</td>
<td>□ 3</td>
<td>□ 2</td>
<td>□ 3</td>
<td>□ 4</td>
<td>□ 5</td>
<td>□ 6</td>
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<tr>
<td>2009-2012</td>
<td>□ 3</td>
<td>□ 2</td>
<td>□ 3</td>
<td>□ 4</td>
<td>□ 5</td>
<td>□ 6</td>
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56. Next I’d like to ask you how likely you think it is that H5N1 in poultry will occur in your commune/ward in the next 12 months. Here is a ladder, ranging from 0 to 10, where 0 means “not at all likely” and 10 means “very likely.” Please show me on this ladder how unlikely or likely you think it is that H5N1 in poultry will occur in your commune/ward.
(Check only ONE box.)

<table>
<thead>
<tr>
<th>Not at all likely</th>
<th>Very likely</th>
<th>Don’t know</th>
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<tbody>
<tr>
<td>□ 0 □ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10</td>
<td>□ 11</td>
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57. We want to know how well you feel you can prepare for and respond to H5N1 in your poultry.
(Check only ONE box on each line.)

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<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Don’t know</th>
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<tbody>
<tr>
<td>a. Do you feel it is possible to protect your poultry from H5N1?</td>
<td>□ 1</td>
<td>□ 2</td>
<td>□ 3</td>
</tr>
<tr>
<td>b. Do you feel you know how to protect your poultry from H5N1?</td>
<td>□ 1</td>
<td>□ 2</td>
<td>□ 3</td>
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<tr>
<td>c. Have you made a plan about how to protect your poultry?</td>
<td>□ 1</td>
<td>□ 2</td>
<td>□ 3</td>
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</table>
poultry from H5N1 before an outbreak occurs?

d. When an H5N1 outbreak occurs, do you feel you are able to protect your poultry from the disease?  

☐ 1  ☐ 2  ☐ 3

e. Do you think government policies and regulations about H5N1 protect your poultry from the disease?  

☐ 1  ☐ 2  ☐ 3

f. Currently, do you think there are adequate levels of protection in your commune/ward (e.g., vaccination, isolation of farms) to minimize the impacts of an H5N1 outbreak?  

☐ 1  ☐ 2  ☐ 3

g. Is it easy for you to find vaccines for H5N1?  

☐ 1  ☐ 2  ☐ 3

h. Is the vaccine that is available to you for H5N1 of high quality?  

☐ 1  ☐ 2  ☐ 3

58. I’d like to ask you how effective you think the following disease management strategies are for controlling H5N1 among poultry in your commune/ward. Here is a ladder, ranging from 0 to 10, where 0 means “not at all effective” and 10 means “very effective.” Please show me on this ladder how effective each disease management strategy is for controlling H5N1 among poultry in your commune/ward.  
*(Check only ONE box on each line.)*

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Not at all effective</th>
<th>Very effective</th>
<th>Don’t know</th>
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<tbody>
<tr>
<td>a. Vaccinating poultry to protect them against H5N1</td>
<td>☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11</td>
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<td>b. Isolating farms where H5N1 outbreaks are detected or suspected</td>
<td>☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11</td>
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<td>c. Culling poultry where H5N1 outbreaks are detected or suspected</td>
<td>☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11</td>
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<td>d. List any other strategy you use (please specify:)</td>
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59. If there were an outbreak of H5N1 among poultry in your commune/ward, how easy or difficult would it be for you to separate your poultry from the poultry belonging to other people?  
*(Check only ONE box.)*

Can easily keep my poultry separate from poultry belonging to others  ☐ 1
Can keep my poultry separate from poultry belonging to others with some difficulty □ 2
Unable to keep my poultry separate from poultry belonging to others □ 3

60. Next I’d like to know how severe the consequences of an outbreak of H5N1 in your commune/ward would be for your livelihood. Here is a ladder, ranging from 0 to 10, where 0 means “no impact on my livelihood” and 10 means “very negative impact on my livelihood.” Please show me on this ladder how severe the impact of an outbreak of H5N1 among poultry in your commune/ward would be on your livelihood.

(Check only ONE box.)

<table>
<thead>
<tr>
<th>No impact</th>
<th>Very negative impact</th>
<th>Don’t know</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ 0</td>
<td>□ 1</td>
<td>□ 2</td>
</tr>
<tr>
<td>□ 3</td>
<td>□ 4</td>
<td>□ 5</td>
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<td>□ 9</td>
<td>□ 10</td>
<td>□ 11</td>
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</tbody>
</table>

61. Overall, how does the process of change (in urbanization, agricultural practices, or natural habitat) affect the likelihood of an outbreak of H5N1 in poultry?

(Check only ONE box.)

- Change increases the likelihood of an outbreak of H5N1 in poultry □ 1
- Change decreases the likelihood of an outbreak of H5N1 in poultry □ 2
- Change does not affect the likelihood of an outbreak of H5N1 in poultry □ 3
- Don’t know □ 4

62. I’d like to know your thoughts about the likelihood of an outbreak of H5N1 in each of the following types of communes/wards. Here is a ladder, ranging from 0 to 10, where 0 means “not at all likely” and 10 means “very likely.”

(Check only ONE box on each line.)

<table>
<thead>
<tr>
<th>Not at all likely</th>
<th>Very likely</th>
<th>Don’t know</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ 0</td>
<td>□ 1</td>
<td>□ 2</td>
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<td>□ 3</td>
<td>□ 4</td>
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<tr>
<td>□ 9</td>
<td>□ 10</td>
<td>□ 11</td>
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</tbody>
</table>

63. Now I am interested in how concerned you are about several different issues that affect your family, your
Interview Number: _____________________

commune/ward, and Vietnam as a whole. This will give us a sense of what things you feel are most worrisome and worth paying attention to. Here is a ladder, ranging from 0 to 10, where 0 means “not at all concerning” and 10 means “very concerning.” Please show me on this ladder how concerning each of the following items is.

*(Check only ONE box on each line.)*

<table>
<thead>
<tr>
<th>Not at all concerning</th>
<th>Very concerning</th>
<th>Don't know</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. The national economy</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>b. National politics/bureaucracy</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>c. My job situation</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>d. Personal and family health</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>e. My children’s future</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>f. The rate at which communes and wards in Vietnam are changing (including changing urbanization, agricultural practices, and natural habitats)</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>g. Shortage of water in Vietnam</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>h. Shortage of food in Vietnam</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>i. Deforestation in Vietnam</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>j. Extinction of plant and animal species in Vietnam</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>k. Accumulation of household waste in Vietnam</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>l. Accumulation of industrial waste in Vietnam</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td>m. Accumulation of animal waste in Vietnam</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>n.</strong> Air pollution in Vietnam</td>
<td>□ 0 □ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10 □ 11</td>
</tr>
<tr>
<td>---</td>
<td>--------------------------------</td>
<td>-----------------------------------------------</td>
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<tr>
<td>o</td>
<td><strong>O.</strong> Water pollution in Vietnam</td>
<td>□ 0 □ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10 □ 11</td>
</tr>
<tr>
<td>p</td>
<td><strong>p.</strong> The impacts of climate change in Vietnam</td>
<td>□ 0 □ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10 □ 11</td>
</tr>
<tr>
<td>q</td>
<td><strong>q.</strong> Exhaustion of natural resources in Vietnam</td>
<td>□ 0 □ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10 □ 11</td>
</tr>
</tbody>
</table>
64. I am interested in your views about the relationship between humans and the environment. Here is a ladder, ranging from 0 to 10, where 0 means "do not agree at all" and 10 means "strongly agree." Please show me on this ladder how much you agree with each of the following statements.

*(Check only ONE box on each line.)*

<table>
<thead>
<tr>
<th></th>
<th>Do not agree at all</th>
<th>Strongly agree</th>
<th>Don’t know</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>Do you agree that human activities easily unbalance nature?</td>
<td>[ ] 0, [ ] 1, [ ] 2, [ ] 3, [ ] 4, [ ] 5, [ ] 6, [ ] 7, [ ] 8, [ ] 9, [ ] 10, [ ] 11</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>Do you agree that when humans change the environment for their own use, it causes serious problems?</td>
<td>[ ] 0, [ ] 1, [ ] 2, [ ] 3, [ ] 4, [ ] 5, [ ] 6, [ ] 7, [ ] 8, [ ] 9, [ ] 10, [ ] 11</td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td>Do you agree that the earth has limited natural resources?</td>
<td>[ ] 0, [ ] 1, [ ] 2, [ ] 3, [ ] 4, [ ] 5, [ ] 6, [ ] 7, [ ] 8, [ ] 9, [ ] 10, [ ] 11</td>
<td></td>
</tr>
<tr>
<td>d.</td>
<td>Do you agree that there are limits to economic development for nations like Vietnam?</td>
<td>[ ] 0, [ ] 1, [ ] 2, [ ] 3, [ ] 4, [ ] 5, [ ] 6, [ ] 7, [ ] 8, [ ] 9, [ ] 10, [ ] 11</td>
<td></td>
</tr>
<tr>
<td>e.</td>
<td>Do you agree that plants and animals exist primarily for human use?</td>
<td>[ ] 0, [ ] 1, [ ] 2, [ ] 3, [ ] 4, [ ] 5, [ ] 6, [ ] 7, [ ] 8, [ ] 9, [ ] 10, [ ] 11</td>
<td></td>
</tr>
<tr>
<td>f.</td>
<td>Do you agree that humans have the right to rule over the rest of nature?</td>
<td>[ ] 0, [ ] 1, [ ] 2, [ ] 3, [ ] 4, [ ] 5, [ ] 6, [ ] 7, [ ] 8, [ ] 9, [ ] 10, [ ] 11</td>
<td></td>
</tr>
<tr>
<td>g.</td>
<td>Do you agree that all living things are part of one big family?</td>
<td>[ ] 0, [ ] 1, [ ] 2, [ ] 3, [ ] 4, [ ] 5, [ ] 6, [ ] 7, [ ] 8, [ ] 9, [ ] 10, [ ] 11</td>
<td></td>
</tr>
<tr>
<td>h.</td>
<td>Do you agree that animals should have rights similar to the rights of humans?</td>
<td>[ ] 0, [ ] 1, [ ] 2, [ ] 3, [ ] 4, [ ] 5, [ ] 6, [ ] 7, [ ] 8, [ ] 9, [ ] 10, [ ] 11</td>
<td></td>
</tr>
<tr>
<td>i.</td>
<td>Do you agree that animals give humans a sense of companionship?</td>
<td>[ ] 0, [ ] 1, [ ] 2, [ ] 3, [ ] 4, [ ] 5, [ ] 6, [ ] 7, [ ] 8, [ ] 9, [ ] 10, [ ] 11</td>
<td></td>
</tr>
</tbody>
</table>
Part 6 – Farm Characteristics

I would like to ask you a few questions about your farm.

65. Do you grow rice?  Yes □ 1  No □ 2
66. Do you grow corn?  Yes □ 1  No □ 2
67. Do you grow cassava?  Yes □ 1  No □ 2
68. Do you grow other crops?  Yes □ 1  No □ 2
69. What is the number of adult poultry you have currently at your home/farm?

70. Are these poultry vaccinated against H5N1?

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Don’t know</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Layer chicken (contract)</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
</tr>
<tr>
<td>b. Layer chicken (non-contract)</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
</tr>
<tr>
<td>c. Broiler chicken (contract)</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
</tr>
<tr>
<td>d. Broiler chicken (non-contract)</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
</tr>
<tr>
<td>e. Ducks</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
</tr>
<tr>
<td>f. Muscovy duck</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
</tr>
<tr>
<td>g. Geese</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
</tr>
<tr>
<td>h. Other poultry such as turkeys, quails, etc</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
</tr>
</tbody>
</table>

71. How often do you sell these poultry?

<table>
<thead>
<tr>
<th></th>
<th>Never</th>
<th>Less frequently than monthly</th>
<th>Monthly</th>
<th>Weekly</th>
<th>Daily</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Layer chicken (contract)</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
<td>[ ] 5</td>
<td>[ ] 6</td>
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<tr>
<td>b. Layer chicken (non-contract)</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
<td>[ ] 5</td>
<td>[ ] 6</td>
</tr>
<tr>
<td>c. Broiler chicken (contract)</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
<td>[ ] 5</td>
<td>[ ] 6</td>
</tr>
<tr>
<td>d. Broiler chicken (non-contract)</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
<td>[ ] 5</td>
<td>[ ] 6</td>
</tr>
<tr>
<td>e. Ducks</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
<td>[ ] 5</td>
<td>[ ] 6</td>
</tr>
<tr>
<td>f. Muscovy duck</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
<td>[ ] 5</td>
<td>[ ] 6</td>
</tr>
<tr>
<td>g. Geese</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
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<td>[ ] 5</td>
<td>[ ] 6</td>
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<tr>
<td>h. Other poultry such as turkeys, quails, etc</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3</td>
<td>[ ] 4</td>
<td>[ ] 5</td>
<td>[ ] 6</td>
</tr>
</tbody>
</table>
72. We are interested in where you sell your poultry products.

   a. Do you sell your eggs at the local market?  Yes ☐, No ☐
   b. Do you sell your eggs at the market in a neighboring commune? Yes ☐, No ☐
   c. Do you sell your eggs to a poultry collector (with a contract)? Yes ☐, No ☐
   d. Do you sell your eggs to a poultry collector (without a contract)? Yes ☐, No ☐
   e. Do you sell your eggs to relatives, friends, neighbors? Yes ☐, No ☐
   f. Do you sell your eggs to anyone one else not described above? Yes ☐, No ☐
   g. Do you sell your poultry at the local market? Yes ☐, No ☐
   h. Do you sell your poultry at the market in a neighboring commune? Yes ☐, No ☐
   i. Do you sell your poultry to a poultry collector (with a contract)? Yes ☐, No ☐
   j. Do you sell your poultry to a poultry collector (without a contract)? Yes ☐, No ☐
   k. Do you sell your poultry to relatives, friends, neighbors? Yes ☐, No ☐
   l. Do you sell your poultry to anyone one else not described above? Yes ☐, No ☐

73. Do you raise fish?  Yes ☐, No ☐

74. What do you do with poultry feces?

   a. Spread it in cultivation areas near (contiguous with) house Yes ☐, No ☐
   b. Spread it in cultivation areas far (discontiguous) from house Yes ☐, No ☐
   c. Compost it Yes ☐, No ☐
   d. Throw it out with other household garbage Yes ☐, No ☐
   e. Throw it in the river/pond/drainage system far from home (not for the purpose of feeding fish) Yes ☐, No ☐
   f. Throw it in the river/pond/drainage system near to home (not for the purpose of feeding fish) Yes ☐, No ☐
   g. Feed it to your fish Yes ☐, No ☐
   h. Sell it Yes ☐, No ☐
   i. Give it away to another person Yes ☐, No ☐
   j. Other Yes ☐, No ☐

75. How do you keep your chickens?  (Check only ONE box.)

   Not applicable ☐
   Being kept in a pen/house/cage/fenced area all the time ☐
   Being kept in a pen/house/cage/fenced area most of the time ☐
   Sometimes (e.g. at night) in a cage/pen/fenced area and sometimes roam free ☐
   Roam free all the time within the farmyard ☐
   Roam free everywhere ☐
76. How do you keep your ducks?  
*(Check only ONE box.)*

- Not applicable
- In a pen/house/cage/fenced area all the time
- In a pen/house/cage/fenced area most of the time
- Sometimes (e.g. at night) in a cage/pen/fenced area and sometimes roam free
- Roam free all the time within the farmyard
- Roam free everywhere

<table>
<thead>
<tr>
<th></th>
<th>Daily</th>
<th>2-3 days a week</th>
<th>Once a week</th>
<th>Once a month</th>
<th>Rarely</th>
<th>Never</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>ducks</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

77. How often do you clean the chicken cage/pen?  

- Daily 1
- 2-3 days a week 2
- Once a week 3
- Once a month 4
- Rarely 5
- Never 6
- Not applicable 7

78. How often do you clean the ground where chickens are kept?  

- Daily 1
- 2-3 days a week 2
- Once a week 3
- Once a month 4
- Rarely 5
- Never 6
- Not applicable 7

79. How often do you clean the duck cage/pen?  

- Daily 1
- 2-3 days a week 2
- Once a week 3
- Once a month 4
- Rarely 5
- Never 6
- Not applicable 7

80. How often do you clean the ground where ducks are kept?  

- Daily 1
- 2-3 days a week 2
- Once a week 3
- Once a month 4
- Rarely 5
- Never 6
- Not applicable 7

81. Do you keep the chickens and other poultry separated all the time?  
*(Check only ONE box.)*

- Yes 1
- No 2
- Not applicable 3

82. Where do poultry get drinking water?  

- a. Water from pond/lake  
  - Yes 1
  - No 2
- b. Own well  
  - Yes 1
  - No 2
- c. Community well  
  - Yes 1
  - No 2
- d. Collected rain water  
  - Yes 1
  - No 2
- e. River / Canal/ Irrigation ditch  
  - Yes 1
  - No 2
- f. Other  
  - Yes 1
  - No 2
83. What is the source of cleaning water for the poultry pen/cage?

a. Water from pond/lake Yes □ 1 No □ 2
b. Own well Yes □ 1 No □ 2
c. Community well Yes □ 1 No □ 2
d. Collected rain water Yes □ 1 No □ 2
e. River / Canal/ Irrigation ditch Yes □ 1 No □ 2
f. Other Yes □ 1 No □ 2

84. Imagine that you have a sick chicken. You have treated it with medicine, but it is still sick. What do you do next?

a. Sell it Yes □ 1 No □ 2
b. Give it away Yes □ 1 No □ 2
c. Kill it and eat it Yes □ 1 No □ 2
d. Kill it and bury it Yes □ 1 No □ 2
e. Kill it and throw it away Yes □ 1 No □ 2
f. Do nothing Yes □ 1 No □ 2

85. What is the number of adult pigs on the farm?

If answer to Q85 is 0 pigs, then go to Part 7 (Head of Household).

If answer to Q85 is one or more pigs, then ask questions 87, 87, and 89.

86. Do you keep pigs for the following reasons?

a. Self provisioning (meat is eaten by self and family) Yes □ 1 No □ 2
b. Sale of meat Yes □ 1 No □ 2
c. Breeding Yes □ 1 No □ 2
d. To obtain feces Yes □ 1 No □ 2

87. Do you do the following with pig feces?

a. Spread it in fields near house Yes □ 1 No □ 2
b. Spread it in fields far from house Yes □ 1 No □ 2
c. Compost it Yes □ 1 No □ 2
d. Make biogas Yes □ 1 No □ 2
e. Throw it along with other household garbage Yes □ 1 No □ 2
f. Throw it in the river/pond Yes □ 1 No □ 2
g. Feed to fish Yes □ 1 No □ 2
h. Sell it Yes □ 1 No □ 2
i. Flush/ wash it into drainage system Yes □ 1 No □ 2
j. Give it away Yes □ 1 No □ 2
k. Other Yes □ 1 No □ 2

88. Do any of your poultry come into contact with pigs at any time during the day or night?
Yes  □  1
No   □  2

Part 7 – Head of Household Questions

89. Are you the head of household?  Yes □ 1  No □ 2

If yes to Question 89, then you have finished the survey and can go to Part 8 (Observations).

If no to Question 89, then please continue and answer the following questions.

90. What is the primary (main) occupation of the Head of Household?  (Check only ONE box.)
   Farmer (using own agricultural land) □ 1
   Farmer (renting/ using other’s agricultural land) □ 2
   Farmer (using residential land) □ 3
   Agricultural Laborer (i.e., contracted for hire) □ 4
   Non-agricultural Wage Laborer (e.g., factory worker) □ 5
   Salaried employee (e.g., shop assistant, restaurant worker, clerk, manager) □ 6
   Work for self from home (e.g., industrial piece work, making tofu) □ 7
   Business Owner □ 8
   Homemaker □ 9
   Student □ 10
   Retired □ 11
   Government worker □ 12
   Unemployed □ 13
   Other (Please specify: _____________________________) □ 14

91. What is the secondary occupation of the Head of Household?  (Choose as many as apply)
   No secondary occupation □ 1
   Farmer (using own agricultural land) □ 2
   Farmer (renting/ using other’s agricultural land) □ 3
   Farmer (using residential land) □ 4
   Agricultural Laborer (i.e., contracted for hire) □ 5
   Non-agricultural Wage Laborer (e.g., factory worker) □ 6
   Salaried employee (e.g., shop assistant, restaurant worker, clerk, manager) □ 7
   Work for self from home (e.g., industrial piece work, making tofu) □ 8
   Business Owner □ 9
   Homemaker □ 10
   Student □ 11
   Retired □ 12
   Government worker □ 13
   Other (Please specify: _____________________________) □ 14
92. What is the age of the Head of Household? _____ years
93. How many kilometers from home is the place where the Head of Household spends most time working?

__________km

94. What is the main mode of transportation to the place where the Head of Household spends most time working?

(Check only ONE box.)

- Walking □ 1
- Bus □ 2
- Motorbike □ 3
- Car □ 4
- Bicycle □ 5
- Not applicable □ 6

95. Did the Head of Household live in the same commune, town, or, ward 5 years ago?

- Same □ 1
- Different □ 2

96. If answer to previous question was “different”, please specify:

a. Name of commune/town/ward: ____________

b. Number of commune/town/ward: □ □

c. Name of district: ____________

d. Number of district: □ □

e. Name of province: ____________

f. Number of province: □ □ □

g. Overseas (specify country: ____________)

Part 8 – Observations to be made by Interviewer

Human housing

97. What is the type of the main house/flat?

- Permanent □ 1
- Semi-permanent □ 2
- Wood frame or durable use, leaf roof □ 3
- Simple house □ 4
Animal housing

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>98. Are all chickens kept in a closed building or fence-in area?</td>
<td>☐ 1</td>
<td>☐ 2</td>
<td>☐ 3</td>
</tr>
<tr>
<td>99. Are all ducks kept in a closed building or fence-in area?</td>
<td>☐ 1</td>
<td>☐ 2</td>
<td>☐ 3</td>
</tr>
<tr>
<td>100. Do you let your poultry go outside?</td>
<td>☐ 1</td>
<td>☐ 2</td>
<td>☐ 3</td>
</tr>
<tr>
<td>101. If poultry are let free in the backyard, are wild birds coming</td>
<td>☐ 1</td>
<td>☐ 2</td>
<td>☐ 3</td>
</tr>
<tr>
<td>102. Are there other animals (such as pig) which can come in</td>
<td>☐ 1</td>
<td>☐ 2</td>
<td>☐ 3</td>
</tr>
<tr>
<td>103. Is there poultry feces lying on the ground outside the area where</td>
<td>☐ 1</td>
<td>☐ 2</td>
<td>☐ 3</td>
</tr>
<tr>
<td>104. Is there a poultry manure composting pit?</td>
<td>☐ 1</td>
<td>☐ 2</td>
<td>☐ 3</td>
</tr>
<tr>
<td>105. Is there a water and soap at the farm gate?</td>
<td>☐ 1</td>
<td>☐ 2</td>
<td>☐ 3</td>
</tr>
</tbody>
</table>

I verify that I have checked this questionnaire to ensure it is completed as accurately as possible.

__________________________________  _______________________
(Interviewer’s signature)  (Date)

I verify that I have checked this questionnaire to ensure that the interviewer completed it accurately as possible.

__________________________________  _______________________
(Team Leader’s signature)  (Date)
Appendix 1: Response ladder for questions in Parts 4 and 5