Study of Biomarkers of Exposures and Effects in Agriculture Collection Questionnaire **Agricultural Health Study**

Location of Residence (County, State):

Date: ____/___/__

OMB #: 0925-0406 Expiration date: 10/31/2011

Public reporting for this collection of information is estimated to average twenty minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it **displays a currently valid OMB control number.** Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA (0925-0406). Do not return the completed form to this address.

PRE-INTERVIEW PREPARATION:

- 1. ASK PARTICIPANT FOR SHOWCARD WITH PESTICIDE INFORMATION.
- 2. ASK PARTICIPANT FOR ASSEMBLED PRESCRIPTION MEDICATIONS.
- 3. PROVIDE CALENDAR TO PARTICIPANT FOR REFERENCE.

[Display subject ID and Participant information on CAPI "face sheet"]

Screening Questions To Ask Prior To Consent (SCR):

- 1a. Is your name ^DSP.Respondent_Fullname and is your date of birth ^STN.Respondent Birthdate? Yes _____ (Q2) No _____
- 1c. [INTERVIEWER] IS IT POSSIBLE THAT THE NUMBERS IN THE DATE OF BIRTH FROM OUR RECORDS (BIRTHDATE), COMPARED TO THE BIRTHDATE GIVEN (RESPONDENT BIRTHDATE) COULD HAVE BEEN TRANSPOSED, MISREAD, OR ARE REVERSED? YES (Q2a) NO
- 1d. Does another person with a similar name but a different date of birth live here? Yes _____ No _____ (Skip to Q1g)

1e. May I please speak to the other (FULL NAME)?

Yes _____ THANK INITIAL/INCORRECT RESPONDENT; WAIT TO RECORD "YES" WHEN THE RESPONDENT IS READY TO BEGIN.

No

1f. Do you know a better time when we can reach the other (FULL NAME)?

RECORD INFORMATION ON AND BEST TIME TO REACH; THEN GO TO CLOSINGS.

1g. Do you know how we can reach the other (FULL NAME)?

RECORD INFORMATION ON HOW TO REACH (COLLECT PHONE AND BEST TIME TO REACH); THEN GO TO CLOSINGS.

2a According to your birthdate that we have on record, you should be ^DSP_Respondent_Age years old. Is this accurate?

YES _____ (Q3) NO _____

2b. What is your correct age? _____

IF <50 GO TO INELIGIBLE1

- 3. Do you have a blood clotting disorder such as hemophilia? Yes _____ (GO TO INELIGIBLE2) No _____
- 4. Other than non-melanoma skin cancer, have you been diagnosed by a doctor with any type of cancer in the last three years?

Yes _____ No ____ (GO TO PER)

- a. In what organ or part of the body did your cancer start? (If you are not sure of the answer, please give me your best guess).
- b. In what year were you first diagnosed by a doctor with this cancer?

| ENTER EACH CANCER AND DATE OF I | DIAGNOSIS. | | | |
|--|---------------------|----|----|------|
| 1 st cancer | _Date of diagnosis | / | | / |
| | C | MM | DD | YYYY |
| 2 nd cancer (if applicable) | _ Date of diagnosis | / | | / |
| · / | 0 | MM | DD | YYYY |

GO TO INELIGIBLE3

Personal Information (PER):

- 1. How tall are you? ______feet / inches
- 2. How much do you weigh now? _____ pounds
- In the last 7 days, have you used aspirin or aspirin-containing products, such as Bayer, Bufferin, or Anacin? (Please do not include aspirin-free products such as Tylenol and Panadol.) Yes _____ No _____ (Q4)
 - a. What is the product name?: _____
 - b. What is the product strength? Would you say: Adult strength (usually 325mg), _____ Baby strength (usually 81mg), _____ Or some other strength? (SPECIFY) ____

- c. How many pills of aspirin or aspirin-containing products have you taken in the **last 7 days**? _____
- d. When did you last take aspirin or aspirin-containing products? _____ days ago or _____ hours ago
- 4. **In the last 7 days**, have you used ibuprofen-containing products, such as Advil, Nuprin, or Motrin? Yes _____ No _____ (Q5)
 - a. What is the product name: _____
 - b. How many pills of ibuprofen-containing products have you taken in the last 7 days?
 - c. When did you last take ibuprofen-containing products? _____ days ago or _____ hours ago
- 5. Are you regularly taking any blood thinning medications, such as Heparin, Coumadin, plavix or aspirin?

Yes _____ No ____(Q7)

- 6. Which blood thinning medication(s) do you regularly take?
 - a. HEPARIN
 - b. COUMADIN
 - c. PLAVIX
 - d. ASPIRIN
 - e. OTHER (SPECIFY)
- 7. Do you regularly take any prescribed medicines? Yes _____ No _____ (Q8)
 - a. Can you please tell me the name or names of the each prescription medication you are taking? REFER TO BOTTLES ASSEMBLED BY PARTICIPANT. REVIEW TOGETHER AND ENTER.

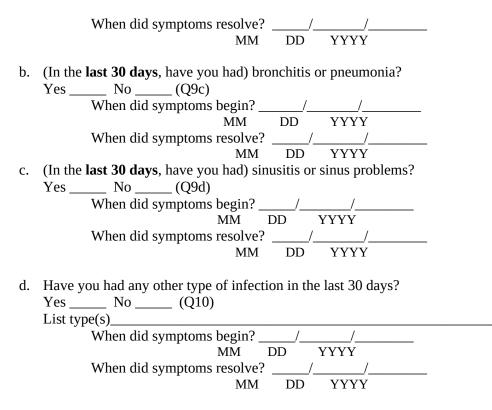
Next, I'm going to ask you about different conditions with which you may have been diagnosed. Please answer yes or no for each one.

8. Has a doctor or other medical professional ever told you you had:

| | | YES | NO |
|----|--|------|----|
| a. | Heart disease? | 1 | 2 |
| b. | High blood pressure or hypertension? | 1 | 2 |
| с. | Diabetes? | 1 | 2 |
| d. | Rheumatoid arthritis? | 1 | 2 |
| e. | Any other autoimmune diseases? (IF ASKED: multiple sclerosis | s, 1 | 2 |
| | sarcoidosis, lupus, or Sjogren's disease) | | |

The next series of questions deals with conditions that you may have had within the **last 30 days**. If you need to, please use the calendar to help with your answers.

- 9. In the **last 30 days**, have you had:
 - a. A Cold or flu? Yes _____ No ____ (Q9b) When did symptoms begin? ____/ ____/ MM DD YYYY



Now I'm going to ask about medical or dental x-rays or any other radiologic procedures you may have had during the **last 12 months**.

10. During the last 12 months, did you have a:

| Type of Procedure | IF YES: When did you have this procedure? (mm/dd/yyyy) |
|--|--|
| a) Medical x-ray? | |
| b) Dental x-ray | |
| c) CT scan or CAT Scan? | |
| d) Fluoroscopy? | |
| e) PET scan? | |
| f) Diagnostic radioisotopes, for example a thallium stress test? | |
| g) Another type of radiologic procedure? | |

- 11. How many servings of alcoholic beverages did you drink in the last seven days? A serving of an alcoholic beverage is defined as 12 fluid ounces of beer, 5 fluid ounces of wine, and 1.5 fluid ounces of hard liquor. Number of servings: _____
- 12. How many servings of alcoholic beverages did you drink in the last 24 hours? A serving of an alcoholic beverage is defined as 12 fluid ounces of beer, 5 fluid ounces of wine, and 1.5 fluid ounces of hard liquor. Number of servings: _____

The next series of questions deals with your tobacco use.

13. How often do you currently smoke or use the following tobacco products? Please tell me if you smoke or use these products: every day, some days, or not at all.

| Product | Every day | Some days | Not at all |
|------------------------|-----------|-----------|------------|
| Cigarettes | | | |
| A pipe | | | |
| Cigars | | | |
| Cigarillos | | | |
| Chewing tobacco | | | |
| Snuff | | | |
| Other tobacco products | | | |
| (Specify): | | | |

Other agricultural exposures section (OAG)

Now I would like to ask you a few questions about your activities at work and on your farm.

- 14. In the last 12 months, have you personally performed farm work or farming activities? Yes _____ No ____ (Q19)
- 15. Excluding gardens for personal use, what crops, including fruits and vegetables, were raised on your farm in the last 12 months?

| None | Corn pop | Peaches |
|-----------------|---------------|--------------|
| Apples | Corn seed | Peanuts |
| Alfalfa | Corn sweet | Peppers |
| Barley | Cotton | Potatoes |
| Bermuda grass | Cucumbers | Rye |
| Blueberries | Grapes | Snap beans |
| Cabbage | Hay or forage | Sorghum |
| Christmas trees | Melons | Soybeans |
| Corn field | Oats | Strawberries |
| | | |

Sweet potatoes Tomatoes Tobacco Wheat Nursery crops Pumpkins Other:

16. In the last 12 months, how many (TYPE) were raised on your farm?

| Туре | Number |
|------------------|--------|
| None | |
| Beef cattle | |
| Dairy cattle | |
| Hog/swine | |
| Poultry | |
| Poultry for eggs | |
| Sheep or goats | |
| Horses | |
| Other | |

17. (IF YES TO RAISING POULTRY OR POULTRY FOR EGGS) Have you spent time in a poultry confinement area within the last month?

Yes____ No____

- 18. (IF YES TO SWINE) Have you spent time in swine confinement area within the last month? Yes____ No____
- 19. In the last month, how many times have you performed the following activities?

| | The first month, now many times have you per | 3 |
|----|--|------------|
| a. | How often have you ground animal feed? | Not at all |
| | Would you say (READ RESPONSES): | 1-3 times |
| | | 4-20 times |
| | | >20 times |
| b. | How about milking cows? Would you say: | Not at all |
| | | 1-3 times |
| | | 4-20 times |
| | | >20 times |
| с. | (How about) cleaning grain bins? | Not at all |
| | | 1-3 times |
| | | 4-20 times |
| | | >20 times |
| d. | (How about) working with or around moldy | Not at all |
| | hay or straw? | 1-3 times |
| | - | 4-20 times |
| | | >20 times |

20. In the last 7 days, have you done any welding? Yes _____ No _____

- 21. In the last 7 days, have you done any painting? Yes _____ No _____
- 22. In the last 7 days, have you repaired engines? Yes _____ No _____
- 23. Do you currently have a job other than working on a farm? Yes _____ No _____ (GO TO **Occupational Intro**)
 - a. What is your current job other than farming?

 - c. How long have you had this job? _____ months / years
 - d. Is this job year round or seasonal? Year round _____ Seasonal _____

Occupation Information (OCC)

I would now like to ask about your use of pesticides in the last 12 months. This includes the use of herbicides, insecticides, fungicides, fumigants, or other chemicals used to kill plants, insects, fungi, molds, or rodents. Please do not include the use of antibiotics, sanitizers, antimicrobial soaps or fertilizers.

- In the last 12 months, have you personally mixed, loaded, handled or applied these chemicals for use on crops, animals, or any other purpose NOT including home and garden use? I will ask you separately about the use of pesticides in your home and garden. Yes _____ No _____ (Go to HOM)
- 2. Which products have you used in the last 12 months? Please give the product trade name, if possible:

[IF SHOWCARD IS COMPLETED, REVIEW WITH PARTICIPANT AS YOU ENTER DATA; IF SHOWCARD IS NOT COMPLETED, PROBE FOR PRODUCT NAMES ONLY.]

What is the active ingredient in (PRODUCT)?

What is the (PRODUCT) EPA Registration #: _____

3. In the last 12 months, on how many days did you mix, load or apply [insert pesticide name]?

Total number of days: _____ Don't know

4. I would like to ask you about the dates of the three most recent uses of [insert pesticide name] within the last 12 months and the amount of time that you spent mixing, loading or applying [insert pesticide name] on each date.

(Please start with your most/Now tell me about your next most) recent use of [insert pesticide name]. .

| | Date | Time spent (hours) |
|---|------|--------------------|
| 1 | | |
| 2 | | |
| 3 | | |

5. In the last 12 months, did you personally mix and/or load [insert pesticide name]?

Yes _____ No ____ (Q6)

 a. Was the [insert pesticide name] that you mixed and/or loaded a: Liquid, Powder, Granule, Dissolvable packet, Or something else? OTHER: SPECIFY ______

- b. When you mixed and/or loaded [insert pesticide name] did you normally wear gloves? Yes _____ No _____ (Q5e)
- c. What type of glove did you normally wear when you mixed and/or loaded [insert pesticide name]? Was it a:
 Chemical resistant glove like nitrile?

Chemical resistant glove like nitrile? Rubber or plastic waterproof glove? Thin disposable glove like latex? Fabric or leather? Another type of glove? (SPECIFY): _____

d. What (other) personal protective equipment did you normally wear when mixing and/or loading [insert pesticide name]? Did you wear:
 Goggles?
 Face shield?

| race sinera: |
|--------------------------------------|
| Disposable coveralls, like Tyvek? |
| Chemical-resistant jacket and pants? |
| Chemical-resistant apron? |
| Rubber boots? |
| Respirator? Which type? (SPECIFY) |
| Dust mask? |
| Long-sleeved shirt? |
| Something else? OTHER: SPECIFY |
| NONE |

6. In the last 12 months, did you personally apply [insert pesticide name]?

Yes _____ No _____ (Next pesticide; else skip to **Home and Garden Pesticide Use Questions**)

- a. Was [insert pesticide name] applied to: Crop(s)? To which crops was it applied? (SPECIFY) ______ Animals or animal confinement areas? Anything else? OTHER (SPECIFY): _____
- b. Was [insert pesticide name] applied as a liquid, powder, granule or something else? LIQUID POWDER GRANULE SOMETHING ELSE: SPECIFY _____
- d. When you mixed and/or loaded [insert pesticide name] did you normally wear gloves? Yes _____ No _____ (Q6f)

e. What type of glove did you normally wear when you mixed and/or loaded [insert pesticide name]? Was it a: Chemical resistant glove like nitrile?

Rubber or plastic waterproof glove? Thin disposable glove like latex? Fabric or leather? Another type of glove? (SPECIFY):

f. What (other) personal protective equipment did you normally wear when mixing and/or loading [insert pesticide name]? Did you wear: Goggles?

| Guggles: |
|--------------------------------------|
| Face shield? |
| Disposable coveralls, like Tyvek? |
| Chemical-resistant jacket and pants? |
| Chemical-resistant apron? |
| Rubber boots? |
| Respirator? Which type? (SPECIFY) |
| Dust mask? |
| Long-sleeved shirt? |
| Something else? OTHER: SPECIFY |
| NONE |

Home and Garden Pesticide Use Questions (HOM)

I would now like to ask about your use of pesticides in your home and garden in the last 12 months. This includes the use of herbicides, insecticides, fungicides, fumigants, or other chemicals used to kill plants, insects, fungi, molds, or rodents. Please do not include the use of antibiotics, sanitizers, antimicrobial soaps or fertilizers.

1. In the last 12 months, have you personally used pesticides in your home and garden?

Yes _____ No _____(END)

2. Which products have you used in your home and garden in the last 12 months? Please give the product trade name, if possible:

[IF SHOWCARD IS COMPLETED, REVIEW WITH PARTICIPANT AS YOU ENTER DATA; IF SHOWCARD IS NOT COMPLETED, PROBE FOR PRODUCT NAMES ONLY.]

What is the active ingredient in (PRODUCT)? ______

What is the (PRODUCT) EPA Registration #: _____

Closings

COMPLETE INTERVIEW

This concludes the interview portion of the visit. I appreciate your taking the time with me to answer these questions. Now I am going to get set up for the blood draw.

Interviewer Remarks

R1. PARTICIPANT'S COOPERATION WAS:

- 1. VERY GOOD
- 2. GOOD
- 3. FAIR
- 4. POOR

R2. THE OVERALL QUALITY OF THIS INTERVIEW IS:

- 1. UNSATISFACTORY
- 2. QUESTIONABLE
- 3. GENERALLY RELIABLE
- 4. HIGH QUALITY

NO INTERVIEW1

Ok, then. Thank you very much.

NO INTERVIEW2

I'm sorry for the confusion. That is all the questions I have for you at this time. Thank you for speaking with me today.

NO INTERVIEW3

That is all the questions I have for you at this time. Thank you for speaking with me today.

INELIGIBLE 1: I apologize. Our records indicated that you were within the age range we are including in the study. However, based on this updated information on your age, you are not eligible for this part of the Agricultural Health Study. Thank you for your time today.

INELIGIBLE 2: Unfortunately, you are not eligible for this part of the Agricultural Health Study: we are looking for a group of men who are able to provide blood samples. Thank you for your time today

INELIGIBLE 3: Unfortunately, you are not eligible for this part of the Agricultural Health Study: we are looking for a group of men who have never been diagnosed with cancer. Thank you for your time today