Attachment 19-1: BEEA Home Visit CAPI (Random Select and Recent Exposed Groups)

Study of Biomarkers of Exposures and Effects in Agriculture Agricultural Health Study

Location of Residence (County, State):

	Date:	/	/
	MM	DD	YYYY
	Expirati	OMB #: 0 ion date: 0	
Collection of this information is authorized by The Public Health Service Act (42 US) participants are protected by The Privacy Act of 1974. Participation is voluntary, and participating or withdrawing from the study at any time. Refusal to participate will no The information collected in this study will be kept private to the extent provided by will not appear in any report of the study. Information provided will be combined for as summaries. You are being contacted by mail to complete this health follow-up su Agricultural Health Study your continued involvement can help us learn more about environmental factors may affect the health of farmers and their families.	d there are no it affect your be law. Names ar all study partic irvey because	penalties for enefits in a not other ide sipants and as a member as a member ide sipants.	iny way. entifiers I reported
Public reporting for this collection of information is estimated to average 90 minutes for reviewing instructions, searching existing data sources, gathering and maintaining completing and reviewing the collection of information. An agency may not condunate required to respond to, a collection of information unless it displays a curnumber. Send comments regarding this burden estimate or any other aspect of this including suggestions for reducing this burden, to: NIH, Project Clearance Branch, 6 Bethesda, MD 20892-7974, ATTN: PRA (0925-0406). Do not return the completed	ng the data need ict or sponsor rently valid O is collection of S705 Rockledge	eded, and r, and a peometric of the control of the	erson is ol
PRE-INTERVIEW PREPARATION: 1. ASK PARTICIPANT FOR SHOWCARD WITH PESTICIDE INF 2. ASK PARTICIPANT FOR ASSEMBLED PRESCRIPTION MED 3. PROVIDE CALENDAR TO PARTICIPANT FOR REFERENCE.		۸.	
[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 ^ST Yes (Q2) No	N.Responde	nt_Birthd	late?
1b. What is your correct date of birth?//			
1c. [INTERVIEWER] IS IT POSSIBLE THAT THE NUMBERS IN THE OUR RECORDS (BIRTHDATE), COMPARED TO THE BIRTHDAT BIRTHDATE) COULD HAVE BEEN TRANSPOSED, MISREAD, O YES (Q2a) NO	E GIVEN (F	RESPONI	DENT
1d. Does another person with a similar name but a different date of birth liv Yes No (Skip to Q1g)	/e here?		
1e. May I please speak to the other (FULL NAME)? Yes THANK INITIAL/INCORRECT RESPONDENT; WAIT T THE RESPONDENT IS READY TO BEGIN.	O RECORD	"YES" V	VHEN

	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.	Not including non-melanoma skin cancer, have you been diagnosed by a doctor with any type of cancer in the last three years? [IF REG FOLLOW-UP VISIT SAY: Not including non-melanoma skin cancer, have you been diagnosed by a doctor with any type of cancer since your last visit?] 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 DIAGNOSIS.
	1 st cancerDate of diagnosis// 2 nd cancer (if applicable)Date of diagnosis///
	MM DD YYYY
Per	rsonal Information (PER):
1.	How tall are you? [IF REG FOLLOW-UP VISIT, DO NOT ASK. ENTER DK.]feet / inches
2.	How much do you weigh now? pounds
3.	In the last 7 days, have you used aspirin or aspirin-containing products, such as Bayer, Bufferin, Anacin or Excedrin? (Please do not include aspirin-free products such as Tylenol and Panadol.) Yes No(Q4)

		What is the product name?: What is the product strength? Would you say: Adult strength (usually 325mg),
	c.	Baby strength (usually 81mg), Or some other strength? (SPECIFY) How many pills of aspirin or aspirin-containing products have you taken in the last 7
	d.	days? When did you last take aspirin or aspirin-containing products? days ago or hours ago or minutes ago
4.		t 7 days, have you used ibuprofen-containing products, such as Advil, Nuprin, or Motrin? No (Q5)
	a. b.	What is the product name: 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 or minutes ago
5.	Since we l	egularly taking any blood thinning medications, such as Heparin, Coumadin, or plavix? have already asked you about aspirin, you do not need to report that here. No(Q7)
6.	a. b. c.	ood thinning medication(s) do you regularly take? HEPARIN COUMADIN PLAVIX
7.	In the las	OTHER (SPECIFY) t 30 days, have you taken any prescribed medicines? [IF THIRD REG FOLLOW-UP Y: Since your last visit, have you taken any prescribed medicines]
		_ 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.
		ng to ask you about different conditions with which you may have been diagnosed. Please no for each one.
		LOW-UP VISIT SAY: I have to ask these questions the same way each time, so I may ask nething you already told me at a previous recent visit. Please bear with me.]
8.	Has a doc	tor or other medical professional ever told you you had: YES NO
	a.	Heart disease? 1 2
	b.	
	c. d.	Diabetes? 1 2 Rheumatoid arthritis? 1 2
	e.	A STATE OF THE STA

h. Asthma?		1 2 2
he next series of questions deals with condition	s or symptoms that you may have	had within the last 1
onths. If you need to, please use the calendar	to help with your answers.	
During the last 12 months, have you had an rhinitis? Examples of symptoms include hat Please do not include symptoms related to a Yes No (Q9g)	ving a stuffy, itchy or runny nose o	
a. In the last 12 months, what alle		ct all that apply)
Stuffy, itchy or runny r Watery, itchy eyes	<u>ose</u>	
Sinusitis or sinus pain o	<mark>r pressure</mark>	
Other symptoms:		
b. Were the symptoms worse after	working with grains or hav?	
Yes		
No	a an harr	
Did not work with grain	s or nay	
c. Were the symptoms worse after	working with animals?	
Yes No		
Did not work with anim	als	
d. On how many days did you have days [0-30]	symptoms of allergies within the	last 30 days?
e. On how many days did you hav days [0-7]	symptoms of allergies within the	last 7 days?
f. Have you had any symptoms of	allergies yesterday or today?	
Yes No		
g. Did you use any medications to	treat or prevent allergy symptoms	<mark>.?</mark>
Yes No (1 01 1	•
h. Please list the medications you	used to treat your allergies	
Name of medication(s): _		
During the last 12 months, have you had an Yes No (Q10d)	itching or other symptoms of ecz	æma?
a. Have you had symptoms of ecz	ema in the last 30 days?	

Yes _____ No ____ (Q10d)

sarcoidosis, lupus, or Sjogren's disease)

f. Hay fever, seasonal allergies or allergic rhinitis?

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b.	Yes No (Q10d)
c.	Have you had symptoms of eczema yesterday or today? Yes No
d.	Did you use any medications to treat eczema? Yes No (Q11)
e.	Please list the medications you used to treat your eczema:
	last 12 months, have you had an episode of asthma or an asthma attack? No (Q11d)
a.	Have you had any symptoms of asthma or an asthma attack in the last 30 days? Yes No (Q11d)
b.	Have you had any symptoms of an asthma or asthma attach in the last 7 days? Yes No (Q11d)
c.	Have you had any symptoms of asthma or asthma attack yesterday or today? Yes No
<mark>d.</mark>	Did you use any medications for asthma or asthma attack? Yes No (Q12)
e.	Please list the medications you used to treat your asthma. Name of medication(s):
THIRD REG F	of questions deals with conditions that you may have had within the last 30 days . [IF OLLOW-UP VISIT SAY: The next series of questions deals with conditions that you may your last visit.] If you need to, please use the calendar to help with your answers.
12. In the last (you had]:	30 days, have you had [IF REG FOLLOW-UP VISIT SAY: Since your last visit, have
_	A Cold or flu? Yes No (Q12b) When did symptoms begin?/ MM DD YYYY
	When did symptoms resolve?// MM DD YYYY
b.	(In the last 30 days/Since your last visit , have you had) bronchitis or pneumonia? Yes No (Q12c) When did symptoms begin?/ MM DD YYYY
c.	When did symptoms resolve?// MM DD YYYY (In the last 30 days/Since your last visit, have you had) sinusitis or sinus problems?
C.	Yes No (Q12d) When did symptoms begin? /

Whan did		DD YYY	Y	
when did s	symptoms resolve? MM		YY	
d. Have you had any of Yes No List type(s) When did s	(Q13) symptoms begin?	/	/Y	visit)?
Now I'm going to ask about medica				
nad during the last 12 months . [IF nedical or dental x-rays or any other				
			-	
13. During the last 12 months/Sin	ce your last visit, l	nave you had		1 (1
Type of Procedure			IF YES: When did yo	u nave the
Type of Procedure a) Medical x-rays?			[Type of Procedure]? (mm/dd/yyyy)	
b) Dental x-rays?			(mm/dd/yyyy)	
c) CT scan or CAT Scan?			(mm/dd/yyyy)	
d) Fluoroscopy?			(mm/dd/yyyy)	
e) PET scan?			(mm/dd/yyyy)	
f) Diagnostic radioisotopes, for e	example a thallium	stress test?	(mm/dd/yyyy)	
g) Other type of radiologic proce			(mm/dd/yyyy)	
 14. How many servings of alcoholic alcoholic beverage is defined as of hard liquor. Number of servings IF NUMBER OF SERVINGS = 15. How many servings of alcoholic alcoholic beverage is defined as of hard liquor. Number of servines of questions deals we have also also the next series of questions deals we have also becomes alcoholic between the next series of questions deals we have also becomes alcoholic between the next series of questions deals we have also becomes alcoholic between the next series of questions deals we have also becomes alcoholic between the next series of questions deals we have also becomes all the next series of questions deals we have also becomes all the next series of questions deals we have also becomes all the next series of questions deals we have also becomes all the next series of questions deals we have also becomes all the next series of questions deals we have also becomes all the next series of questions deals we have also becomes all the next series of questions deals we have also becomes all the next series of questions deals we have all the next series of questions deals we have also becomes all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions deals we have all the next series of questions de	s 12 fluid ounces of vings: = 0 (NONE), GO To c beverages did your s 12 fluid ounces of vings: vith your tobacco us	beer, 5 fluid O Q16_INTR drink in the beer, 5 fluid e.	O. last 24 hours? A servin ounces of wine, and 1.5	fluid ounce
16. Do you currently smoke cig chewing tobacco or snuff?	garettes, a pipe, or c	igars, or use o	other tobacco products s	such as
thewing tobacco of shuff?				
Yes No (OAG)				
17. How often do you (smoke/t	ise)[Product]? (W	ould vou sav	every day, some days o	r not at all?)
Product Product	Every day	Some days	Not at all	
Cigarettes	· - JJ			
A pipe				
Cigars				
Cigarillos				
	<u> </u>	1	I	

Yes N			
	y time in the past 12 months has(Q23)	rvesung grain/soybeans/co	rn 11e1a/corn seea?
			0 11/
	skip to question 29.	ye, oarrey, wheat, conton, ar	raira, nay, forage afe
_	seed, oats, sorghum, soybeans,		falfa hav forage are
	cotton then ask question 24 anAlfalfa or Hay or Forage then		
22 and 23.		105	
	Cornfield, corn seed, oats, sorg	ghum, soybeans, rye, barley,	or wheat, ask questio
Corn field	Oats	Strawberries	
Christmas trees	Melons	Soybeans	Oulet.
Cabbage	Hay or forage	Snap beans Sorghum	Other:
Bermuda grass Blueberries	Grapes	Rye Snap beans	Nursery crops Pumpkins
Barley	Cotton Cucumbers		Wheat
Alfalfa	Corn sweet	Peppers Potatoes	Tobacco
Apples	Corn seed	Peanuts	Tomatoes
None	Corn pop	Peaches	Sweet potatoe
	months? [IF REG FOLLOW-Uling fruits and vegetables, were		
	s for personal use, what crops, in		
farming activities	SIT SAY: Since your last visit, log(Q36)	nave you personally perform	ed farm work or
	ths, have you personally perform		
b. Over your	entire lifetime:		
a. Before ag			
	y years did you spend living on	a farm?	
	99 for never lived on a farm		
	ou first live on a farm? [0-99]		
ow I would like to a	sk you a few questions about yo	ur activities at work and on	your rarm.
J	sk you a few questions about yo	ur activities at work and on	your farm
ther agricultural ex	aposures section (OAG)		
products? (SPECI	FY)		
	cco		
other type of tobac	as c any		
Snuff Do you smoke or other type of tobac	use any		

12 months?

None _____ (Q23) 1-7 Days ____

		8-20 Days
		21 or More Days
b.		days have you spent harvesting grain/soybeans/corn field/corn seed in the last
	30 days?	None (022)
		None (Q23) 1-3 Days
		4-7 Days
		8 or More Days
с.	How many	days have you spent harvesting grain/soybeans/corn field/corn seed in the last 7
	days?	
		None
		1-3 Days
		4-7 Days
.1	D: 1 1	
a.	Dia you na	rvest grain/soybeans/corn field/corn seed yesterday or today? Yes No
		les No
e v	ou spent any	time in the past 12 months hauling grain/soybeans/corn field/corn seed?
		(Q24)
a.		days have you spent hauling grain/soybeans/corn field/corn seed in the last 12
	months?	
		None (Q24)
		1-7 Days
		8-20 Days
		21 or More Days
b.	How many	days have you spent hauling grain/soybeans/corn field/corn seed in the last 30
<i>.</i>	days?	days have you spent hadning grain/softeens/corn neta/corn seed in the last 50
	adys.	None(Q23e)
		1-3 Days
		4-7 Days
		8 or More Days
		<u> </u>
c.		days have you spent hauling grain/soybeans/corn field/corn seed in the last 7
	days?	
		None
		1-3 Days
		4-7 Days
<u>ا</u>	Did you ho	ul grain/soybeans/corn field/corn seed yesterday or today?
u.	i. Ye	
	ii. No	
	11. 110	
e.	On days wl	hen you hauled grain/soybeans/corn field/corn seed how many hours per day did
	you spend?	
		Less than 30 Minutes
		30-60 Minutes
		1-3 Hours

	More than 3 hours	
	en you hauled grain/soybeans/cor rself Yes No	rn field/corn seed did you load the wagon/truck
	pent any time in the past 12 month	s harvesting cotton?
Yes	No (Q25)	
a. Hov		sting cotton in the last 12 months?
	None (Q25)	
	1-7 Days 8-20 Days	
	21 or More Days	
b. Hov	w many days have you spent harve	sting cotton in the last 30 days?
	None (Q25)	
	1-3 Days 4-7 Days	
	8 or More Days	
c. Hov	w many days have you spent harve	sting cotton in the last 7 days?
	None	
	1-3 Days 4-7 Days	
	4-7 Days	
d. Did	you harvest cotton yesterday or to Yes No	<mark>day?</mark>
	pent any time in the past 12 month	s hauling cotton?
Yes	No (Q26)	
a. Hov	w many days have you spent haulii	ng cotton in the last 12 months?
	None (Q26)	
	1-7 Days 8-20 Days	
	21 or More Days	
b. Hov	w many days have you spent haulin	ng cotton in the last 30 days?
	None (Q25e)	
	1-3 Days 4-7 Days	
	8 or More Days	
c. Hov	w many days have you spent haulii	ng cotton in the last 7 days?
	None	
	1-3 Days 4-7 Days	
	4-7 Days	
d. Did	you haul cotton yesterday or toda Yes No	<mark>y?</mark>
	1 CS INU	

e. On o	Less than 30 Minutes
	30-60 Minutes
	1-3 Hours
	More than 3 hours
f. Whe	en you hauled cotton did you load the wagon/truck yourself
	Yes No
Have you sp	ent any time in the past 12 months baling alfalfa or hay?
Yes	No (Q27)
a. How	w many days have you spent baling alfalfa or hay in the last 12 months?
	None (Q27)
	<mark>1-7 Days</mark>
	<mark>8-20 Days</mark>
	21 or More Days
b. How	w many days have you spent baling alfalfa or hay in the last 30 days?
	None (Q26e)
	1-3 Days
	<mark>4-7 Days</mark>
	8 or More Days
c. How	w many days have you spent baling alfalfa or hay in the last 7 days?
	None
	1-3 Days
	4-7 Days
1 - 1011	
d. Did	you bale alfalfa or hay yesterday or today?
	Yes No
2 XX/1-	
	<mark>en you baled alfalfa or hay, do you usually make large (round) bales or small (square</mark> angular) bales?
recta	Large, Round or
	Small, Square/Rectangular or
	Both Equally
Tarra am	ant any time in the next 12 months having alfalfa on have
	pent any time in the past 12 months hauling alfalfa or hay? (O28)
ies	No (Q28)
о Цол	w many days have you cannt havling alfalfa on hav in the lest 12 months?
a. Hov	w many days have you spent hauling alfalfa or hay in the last 12 months?
	None (Q28)
	1-7 Days
	8-20 Days
	21 or More Days
b. How	w many days have you spent hauling alfalfa or hay in the last 30 days?
	None (O27e)

		rs rs ore Days				
c. How	many days hav None 1-3 Day 4-7 Day	/s	uling alfalfa o	or hay in the las	st 7 days?	
d. Di ye	ou haul alfalfa o Yes	or hay yesterday No	y or today?			
e. On d	30-60 M 1-3 Hou	nauled alfalfa on 30 Minutes linutes urs an 3 hours		any hours per d	<mark>ay did you spe</mark>	nd?
f. Whe	n you hauled al Yes	falfa or hay di No	<mark>d you load the</mark>	e wagon/truck y	ourself	
Now we are goin farm.	g to ask you ab	out livestock, p	oultry, or othe	er animals you	may have raise	<mark>ed on your</mark>
28. In the last 12 [IF REG FOLLC animals for incor	W-UP VISIT S	SAY: Since young!				
29. How many [7	* *		on your farm?			
TYPE	NU	JMBER				
Beef cattle						
Dairy cattle						
Hog/swine Poultry						
Poultry for eggs						
Sheep or goats						
Horses						
Other animals (S	PECIFY)					
30. Have you mi	vad faad with a	ntibiotics in the	a nact 12 mont	he?		
	No		e past 12 mont	.115 :		
21 11	1.0 1 1.1		. 20. 1	n		
31. Have you mi	xed feed with a		e past 30 days'	<u> </u>		
168	110	$=(Q_{23})$				
32. Have you mi			e past 7 days?			
Yes	No					

33. (IF YES TO RAISING POULTRY OR POULTRY FOR EGGS) Have you spent time in a poultry
confinement area within the last 30 days? [IF THIRD REG FOLLOW-UP VISIT SAY: Have you
spent time in a poultry confinement area since your last visit?]
Yes No (Q34)
If Yes, How much time did you spend in the poultry confinement area?
In the past 30 days? None, <= 7 hours, >7-20 hours, >20-40 hours, >40 hours
In the past 7 days? None, <= 7 hours, >7-20 hours, > 20 hours
Yesterday or today? None, <30 min, 30-60 min, 1-2 hours, > 2 hours
If Yes, How much time did you spend cleaning the poultry confinement area?
In the past 30 days? None, <= 7 hours, >7-20 hours, >20-40 hours, >40 hours
In the past 7 days? None, <= 7 hours, >7-20 hours, > 20 hours
Yesterday or today? None, <30 min, 30-60 min, 1-2 hours, > 2 hours
If Yes, How much time did you spend mixing poultry feed and feeding poultry?
In the past 30 days? None, <= 7 hours, >7-20 hours, >20-40 hours, >40 hours
In the past 7 days? None, <= 7 hours, >7-20 hours, > 20 hours Yesterday or today? None, <30 min, 30-60 min, 1-3 hours, > 3 hours
resterday of today? None, <50 mm, 50-00 mm, 1-5 hours, > 5 hours
34. (IF YES TO SWINE) Have you spent time in swine confinement area within the last 30 days? [IF
THIRD REG FOLLOW-UP VISIT SAY: Have you spent time in a swine confinement area since
your last visit?]
Yes No (Q35)
If Yes, How much time did you spend in the swine confinement area?
In the past 30 days? None, <= 7 hours, >7-20 hours, >20-40 hours, >40 hours
In the past 7 days? None, <= 7 hours, >7-20 hours, > 20 hours
Yesterday or today? None, <30 min, 30-60 min, 1-2 hours, > 2 hours
If Yes, How much time did you spend cleaning the swine confinement area?
In the past 30 days? None, <= 7 hours, >7-20 hours, >20-40 hours, >40 hours
In the past 7 days? None, <= 7 hours, >7-20 hours, > 20 hours
Yesterday or today? None, <30 min, 30-60 min, 1-2 hours, > 2 hours
If Yes, How much time did you spend mixing swine feed and feeding swine?
In the past 30 days? None, <= 7 hours, >7-20 hours, >20-40 hours, >40 hours
In the past 7 days? None, <= 7 hours, >7-20 hours, > 20 hours
Yesterday or today? – None, <30 min, 30-60 min, 1-3 hours, > 3 hours

35. In the last month, how many times have you performed the following activities? [IF THIRD REG FOLLOW-UP VISIT SAY: Since your last visit, how many times have you performed the following activities?]

Activity	Responses
35a. How often have you worked with or around	Not at all (Q35b)
stored seed or grain on your farm or elsewhere	1-3 times
(such as grain elevators or feed mills)?	4-20 times
aa. If >Not at all, How many times have you	>20 times
worked with or around stored seed or grain in	
the last 7 days? Not at all, 1-3 times, 3-7 times,	
>7 times	
bb. If > Not at all in prev. 7 days, Did you work	
with or around stored seed or grain yesterday?	
Yes No	

cc. If >Not at all to aa, Each time you did this, on average how long did you spend working with or around stored seed or grain? <10 min; 10-30 min, 30 min-1hr, >1 hr 35b. How often have you ground animal feed? Would you say (READ RESPONSES): aa. If >Not at all, How many times have you ground animal feed in the last 7 days? Not at all, 1-3 times, 3-7 times, >7 times bb. If > Not at all in prev. 7 days, Did you grind animal feed yesterday or today? Yes No cc. If >Not at all to aa, Each time you did this, on average how long did you spend grinding animal feed? <10 min; 10-30 min, 30min-1hr,	Not at all (Q35c) 1-3 times 4-20 times >20 times
>1 hour 35c. (How about) cleaning grain bins? aa. If >Not at all, How many times have you cleaned grain bins in the last 7 days? Not at all, 1-3 times, 3-7 times, >7 times bb. If > Not at all in prev. 7 days, Did you clean grain bins yesterday or today? Yes No cc. If >Not at all to aa, Each time you did this, on average how long did you spend cleaning grain bins? Not at all, <10 min; 10-30 min, 30min-1hr, >1 hour	Not at all (Q35d) 1-3 times 4-20 times >20 times
35d. (How about) working with or around moldy hay or straw? aa. If >Not at all, How many times have you worked with or around moldy hay or straw in the last 7 days? Not at all, 1-3 times, 3-7 times, >7 times bb. If > Not at all in prev. 7 days, Did you work with or around moldy hay or straw yesterday or today? Yes No cc. If >Not at all to aa, each time you did this, on average how long did you spend working with or around moldy hay or straw? <10 min; 10-30 min, 30min-1hr, >1 hour	Not at all (Q35e) 1-3 times 4-20 times >20 times
35e. How about milking cows or other animals? Would you say: aa. If >Not at all, How many times have you milked cows or other animals in the last 7 days? Not at all, 1-3 times, 3-7 times, >7 times bb. If > Not at all in prev. 7 days, Did you milk cows or other animals yesterday or today? Yes No cc. If >Not at all to aa, Each time you did this, on	Not at all (Q35f) 1-3 times 4-20 times >20 times

average how long did y or other animals? <30 n hours, >3 hour		
	ny times have you naminal facilities in the 1-3 times, 3-7 times, >7 days, Did you work mal facilities yesterday	Not at all (Q36 Intro) 1-3 times 4-20 times >20 times
NON-INCOME GENERAT	<mark>ΓING ANIMALS ON PT</mark>	S BEEN ANY CHANGE IN THE NUMBER OF FARM, SUCH AS SUCH AS DOGS, CATS, OR PT SAYS NO, ENTER DK.]
horses? Yes No(Q38)	rating animals on your farm, such as dogs, cats, or
horses? Yes No (37. How many [Type] are (Q38) in your home/on your far	
horses? Yes No (37. How many [Type] are (Type	Q38)	
horses? Yes No (37. How many [Type] are (Type Dogs	Q38) in your home/on your far	
horses? Yes No (37. How many [Type] are (Type	Q38) in your home/on your far	
horses? Yes No (37. How many [Type] are (Type Dogs Cats	Q38) in your home/on your far	
horses? Yes No(37. How many [Type] are (in the content of the content	Q38) in your home/on your far	
horses? Yes No (37. How many [Type] are (Type Dogs Cats Horses Other animals (SPECIFY)	Q38) in your home/on your far	
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c. If >0 How many hours yesterday or today? None, <30 min, 30-60 min, 1-3 hours, > 3 hours
40. In the last 7 days, have you done any welding? Yes No
41. In the last 7 days, have you done any painting, varnishing, or staining? Yes No
42. In the last 7 days, have you repaired engines? Yes No
[IF REG FOLLOW-UP VISIT, ASK IF PT HAS GOTTEN A NEW JOB OTHER THAN WORKING ON FARM SINCE LAST VISIT. IF PT SAYS YES, THEN ASK Q43. IF PT SAYS NO, ENTER DK.]
43. Do you currently have a job other than working on a farm? Yes No (GO TO Occupation Intro)
a. What is your current job other than farming?
b. What type of business is this job in? Would you say: Manufacturing? A retail store? Wholesale or distributor? A service provider? Construction? Mining? Farming, fishing, or forestry? Government or military? A shipyard? Or some other type of business (SPECIFY)?
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. [IF REG FOLLOW-UP VISIT SAY: I would now like to ask about your use of pesticides since your last visit.] 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/Since your last visit, 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? We 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/since your last visit)? 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.]
IF OTHER: Please give the product trade name, if possible
IF OTHER: If label is available, what is the active ingredient in [OTHER]?
IF OTHER: What is the EPA Registration number for [OTHER]?
3. In the last 12 months, on how many days did you mix, load or apply [insert pesticide name]? [IF REG FOLLOW-UP VISIT SAY: Since your last visit, 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/since your last visit) and the amount of time that you spent mixing, loading or applying [insert pesticide name] on each date.
(What is the most/What was the next most) recent date you mixed, loaded or applied [insert pesticide name]? (The time before [Date]).
Date How many hours did you spend mixing, loading, or applying [insert pesticide name] on [Date]?
1 (mm/dd/yy)
2 (mm/dd/yy)
3 (mm/dd/yy)
5. In the last 12 months/Since your last visit, 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?
Rubber or plastic waterproof glove?
Thin disposable glove like latex?
Fabric or leather?
Another type of glove? (SPECIFY):

		Ming [insert] NONE Goggles? Face shield Disposable Chemical-r Chemical-r Rubber book Respirator? Dust mask? Long-sleev	coveralls, like Tyvek? resistant jacket and pants? resistant apron? ots? Which type? (SPECIFY)			
6. In the	last 12	months/Sin	ce your last visit, did you personally apply [insert pesticide name]?			
•	Yes	No	(Next pesticide; else skip to Home and Garden Pesticide Use Questions)			
٤	a. Wa	Crop(s)? To Animals or	ticide name] applied to: o which crops was it applied? (SPECIFY) animal confinement areas? lse? OTHER (SPECIFY):			
ł	b. Wa	. Was [insert pesticide name] applied as a liquid, powder, granule or something else? LIQUID POWDER GRANULE SOMETHING ELSE: SPECIFY				
C	e. Wh	What application method(s) was used? Was it: Broadcast or boom spray? Hand spray? Air blast? Or something else? OTHER (SPECIFY)				
(ed and/or loaded [insert pesticide name] did you normally wear gloves?(Q6f)			
E	e. Wh	What type of glove did you normally wear when you applied [insert pesticide name]? W a: Chemical resistant glove like nitrile? Rubber or plastic waterproof glove? Thin disposable glove like latex? Fabric or leather? Another type of glove? (SPECIFY):				
Í		_	ersonal protective equipment did you normally wear when applying [insert]? Did you wear:			

	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
Но	me and Garden Pesticide Use Questions (HOM)
inc	ould now like to ask about your use of pesticides in your home and garden in the last 12 months. This ludes the use of herbicides, insecticides, fungicides, fumigants, or other chemicals used to kill plants, ects, fungi, molds, or rodents. Please do not include the use of antibiotics, sanitizers, antimicrobial ps or fertilizers.
1.	In the last 12 months/Since your last visit, 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/since your last visit)? Please give the product trade name, if possible:
_	SHOWCARD IS COMPLETED, REVIEW WITH PARTICIPANT AS YOU ENTER DATA; SHOWCARD IS NOT COMPLETED, PROBE FOR PRODUCT NAMES ONLY.]
	IF OTHER: Please give the product trade name, if possible
	IF OTHER: If label is available, what is the active ingredient in [OTHER]?
	IF OTHER: What is the EPA Registration number for [OTHER]?
Clo	osings

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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

- PARTICIPANT'S COOPERATION WAS: R1.
 - 1. VERY GOOD
 - 2. GOOD
 - 3. FAIR
 - 4. POOR

R2. THE OVERALL QUALITY OF THIS INTERVIEW IS:

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

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