



AGRICULTURAL HEALTH STUDY

PHASE III SURVEY INSTRUMENT

January 26, 2006

CATI Version 2.0

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SECTION 1: INTRODUCTION AND UPDATE OF RESIDENTIAL INFORMATION

[NOTE: THE FOLLOWING INFORMATION WILL BE DISPLAYED AT THE START OF THE INTERVIEW]:

Subject ID: <<ID number>>
Subject Name: <name>>
Gender: <<gender>>
Participant Type: <<private applicator, commercial applicator, or spouse>>
Enrollment Date: <<enrollment date>>
Last Interviewed: <<date of last interview>>:

QIntro.1) Hello, have I reached ^DSP.TitleRespondentName?

- 0. NO
- 1. YES (Skip to QIntro.3)

QIntro.2) I am trying to reach ^DSP.TitleRespondentName, who completed a telephone interview or hard copy questionnaire with us several years ago about work and health factors common in the farming community. Is ^DSP.RespondentFullname available?

- 0. NO
- 1. YES (Skip to QIntro.3)

QIntro.CB) When would be a good time to reach ^DSP.Respondent.Fullname?

- 1. RESONDENT GAVE TIME FOR CALLBACK (End call)
- 2. RESPONDENT ASKED NOT TO CALLBACK (End call)
- 3. RESPONDENT TOO TILL OR LANGUAGE PROBLEM (End call)
- 4. RESPONDENT REFUSED ALL FURTHER CONTACT (End call)

QIntro.3) Hello ^DSP.Title_Last. This is [STATE YOUR NAME] with the Agricultural Health Study at ^LOD.Site. You were sent a letter from ^FieldStation_PI and Dr. Michael Alavanja recently, letting you know that I would be calling. Do you recall seeing this letter in your mail?

- 0. NO
- 1. YES

QIntro.4) STUDY PURPOSE – IF NEEDED

It's a long-term study designed to follow farmers and their families over a period of time to study protective aspects of health and possible factors of disease. Various diseases among farm families, which are of interest to scientists in this and other countries, are being studied, including the incidence of cancer. You completed a questionnaire for us either at a pesticide certification site, over the phone, or by mail several years ago.

- 1. CONTINUE

QIntro.5) The reason I'm calling today (tonight) is to update your information. The questions deal with your pesticide use and general health information. The interview usually takes 35 minutes to complete and we appreciate all the time you have given to help with this study.

- 1. CONTINUE

QIntro.6) Would you be willing to participate?

- 0. NO (Skip to QIntro.13)
- 1. YES (Skip to QIntro.7)
- 2. NO LONGER FARMING

QIntro.6a) Even though you are no longer farming, your information is still very important to us. Many of the diseases we are studying, such as cancer, may be due to exposure that occurred many years ago. This means we need to look well into the past to study the causes of these diseases. Also, since we are studying many types of exposures - not just farm exposures - it is important for us to obtain information even after you quit farming. Would you be willing to participate?

- 0. NO (Skip to QIntro.13)
- 1. YES

QIntro.7) We could do it now or schedule a time that would be more convenient for you. Is now a good time?

- 0. NO
- 1. YES (Skip to QIntro.8)

QIntro.7a) IF R INDICATES R IS SHORT ON TIME, ASK:

We could just get started and see how it goes. You can stop me at any time. Would that be all right?

- 0. NO (Skip to QIntro.13)
- 1. YES

QIntro.8) *IF Q.SITE <> Iowa, SKIP TO QIntro.12*

QIntro.9) Good, before we get started, I would like to ask if it is all right to record this interview. The purpose is to ensure that I've recorded your answers correctly. We do erase the recordings after we have checked them. Please be assured that your answers are confidential to the extent of the law. Your participation in this or any part of the Agricultural Health Study is voluntary and you may refuse to answer any question. Your name will not be linked to any of your information in reports. If you have questions about the study, you may call 1-800-217-1954. Is this all right with you?

- 0. NO
- 1. YES (Skip to QIntro.11)

QIntro.10) That's not a problem, I will leave the recorder off then.

- 1. CONTINUE

QIntro.11) Do you have any questions before we begin? Okay, let's get started.

- 1. CONTINUE (Skip to Q1.2Intro)

QIntro.12) Good, before we get started I want to assure you that your answers will be kept confidential to the extent of the law. Your participation in this or any part of the Agricultural Health Study is voluntary and you may refuse to answer any question. Your name will not be linked to any of your information in reports. If you have questions about the study, you may call 1-800-424-7883. My supervisor may listen to the interview to be sure I am doing the best job possible. Is this all right with you?

- 0. NO
- 1. YES (Skip to Q1.2Intro)
- 8. REF
- 9. DK

NoSupervisor) That's not a problem, my supervisor will not listen to the interview.

- 1. CONTINUE (Skip to Q1.2Intro)

QIntro.13) When would you like us to call you back?

- 1. RESPONDENT GAVE TIME FOR CALLBACK (End call)
- 2. RESPONDENT ASKED NOT TO CALLBACK (End call)
- 3. RESPONDENT TOO TILL OR LANGUAGE PROBLEM (End call)
- 4. RESPONDENT REFUSED ALL FURTHER CONTACT (End call)

P3_VERIFYNAMEDOB

Q1.2Intro) First let me make certain that I have reached the correct individual. Have I reached ^DSP.Respondent_Fullname who reported a date of birth of ^STN.Respondent_Birthdate?

- 0. NO
- 1. YES (Skip to Q1.2e)
- 8. REF
- 9. DK

P3_SIMILARNAME

Q1.2a) Is there another person with a similar name but with a different date of birth living there?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_INPAST

Q1.2b) Was there a person with a similar name but with a different date of birth living there in the past?

- 0. NO (Skip to Q1.2c)
- 1. YES
- 8. REF
- 9. DK

[not delivered]

ReachPast) Do you know how we can reach ^DSP.TitleRespondentName?

RESPONSE:

P3_TRANSPOSED

Q1.2c) Is it possible that the numbers in the date of birth, ^STN.Respondent_Birthdate, have been transposed, mis-read, or are reversed?

- 0. NO (Skip to QIntroEnd2)
- 1. YES
- 8. REF
- 9. DK

[not delivered]

Q1.2d) What is your correct date of birth?

DOB:

P3_GENDER

Q1.2e) [ONLY ASK IF NOT OBVIOUS] (Just for our records, can you tell me whether you are male or female?)

- 1. MALE
- 2. FEMALE

P3_SAMEAD

Q1.3 Is your current address:

<<display street>>
 <<display city, state and zip>>

- 0. NO, ADDRESS IS INCORRECT OR INCOMPLETE (Skip to Q1.5)
- 1. YES, ADDRESS IS CORRECT (Skip to Q1.7)
- 8. REF
- 9. DK

P3_CHANGE

Q1.5) Did your address change because you moved to a new residence?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

[not delivered]

Q1.6a What is the address of your current residence?

STREET NAME AND NUMBER:

[not delivered]

Q1.6b [What is the address of your current residence?]

CITY:

P3_STATE

Q1.6c [What is the address of your current residence?]

STATE:

[not delivered]

Q1.6d [What is the address of your current residence?]

ZIP CODE:

P3_MOVEIN

Q1.7) In what year did you move into your current residence?

YEAR: |_|_|_|_| (1900-2020)

- 9998. REF
- 9999. DK

P3_LEFTSM

Q1.8M) What month and year did you move out of ^FullState?

MONTH: |_|_| (1-12)

- 98. REF
- 99. DK

P3_LEFTSY

Q1.8Y) [What month and year did you move out of ^FullState?]

YEAR: |_|_|_|_| (1900-2020)

- 9998. REF
- 9999. DK

P3_LIVEFA

Q1.9) Is this residence located on a farm? (A farm is defined as any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year.)

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_WATER

- Q1.10) What has been your primary source of drinking water at your current residence? Was it . . .
- 1. Private well (Skip to Q1.12)
 - 2. Spring (Skip to Q1.13)
 - 3. Private well then switched to public supply (Skip to Q1.11)
 - 4. Public or community supply (Skip to Section 2)
 - 5. Bottled water (Skip to Section 2)
 - 6. Rural water (Skip to Section 2)
 - 7. Reverse osmosis *
 - 8. Distilled water *
 - 9. Filtered water/purified water/Culligan/Other water systems *
 - 10. Multiple sources *
 - 11. Source changed, no duration details given *
 - 91. OTHER, SPECIFY
 - 98. REF (Skip to Section 2)
 - 99. DK (Skip to Section 2)

* Response values 7 through 11 were added during data editing to categorize the responses recorded in response to question Q1.10a.

P3_WATERSPECIFY

Q1.10a) [What has been your primary source of drinking water at your current residence?]
 OTHER, SPECIFY: _____

P3_PUBLICYR

Q1.11) What year did you switch to a public water supply?
 YEAR: |_|_|_|_| (1900-2020)
 9998. REF
 9999. DK

BOX Q1.12: Ask about well depth for applicators only; Spouses skip to Q1.13

P3_DEEPWE

- Q1.12) How deep is (was) your private well ?
- 1. <50 feet
 - 2. 50-100 feet
 - 3. 101-150 feet
 - 4. >150 feet
 - 8. REF
 - 9. DK

P3_TESTWE

- Q1.13) Has your private well been tested for nitrates since <<year of last interview>> (or <<year moved>> IF MORE RECENT)?
- 0. NO (Skip to Section 2)
 - 1. YES
 - 8. REF (Skip to Section 2)
 - 9. DK (Skip to Section 2)

P3_TESTSA

Q1.14) Did the test results indicate that the nitrate level in your well water was safe or unsafe for bottle-fed infants?

- 1. SAFE
- 2. UNSAFE
- 8. REF
- 9. DK

SECTION 2. FARMING OPERATIONS

I would like to ask some questions about farm work or farming activities you may have performed since you were last interviewed.

When answering these questions, please think about the time period since: ^DSP.YearOfLastInterview.

NOTE: FOR COMMERCIAL APPLICATORS, ASK Q2.1 AND Q2.9, THEN SKIP TO SECTION 3

P3_ACFARM

Q2.1) Since ^DSP.YearOfLastInterview, have you personally performed farm work or farming activities?

- 0. NO (Skip to Q3)
- 1. YES
- 8. REF (Skip to Q3)
- 9. DK (Skip to Q3)

P3_STFARM

Q2.2) Are you currently farming or performing farming activities?

- 0. NO (Skip to Q2.2a)
- 1. YES (Skip to Q2.3)
- 8. REF (Skip to Q2.3)
- 9. DK (Skip to Q2.3)

P3_LAFARM

Q2.2a) What was the last year you farmed or performed farming activities?

YEAR: |_|_|_|_| (1900-2020)
 9998. REF
 9999. DK

Q2.3) Excluding gardens for personal use, what crops, including fruits and vegetables, were raised on your farm since ^DSP.YearOfLastInterview?

[CODE ALL THAT APPLY]

- | | |
|---------------------|----------------------|
| 10. NONE | P3_CR_NONE |
| 11. APPLES | P3_CR_APPLES |
| 12. ALFALFA | P3_CR_ALFALFA |
| 13. BARLEY | P3_CR_BARLEY |
| 14. BERMUDA GRASS | P3_CR_BERMUDAGRASS |
| 15. BLUEBERRIES | P3_CR_BLUEBERRIES |
| 16. CABBAGE | P3_CR_CABBAGE |
| 17. CHRISTMAS TREES | P3_CR_CHRISTMASTREES |
| 18. CORN FIELD | P3_CR_CORN_FIELD |
| 19. CORN POP | P3_CR_CORN_POP |
| 20. CORN SEED | P3_CR_CORN_SEED |
| 21. CORN SWEET | P3_CR_CORN_SWEET |
| 22. COTTON | P3_CR_COTTON |
| 23. CUCUMBERS | P3_CR_CUCUMBERS |
| 24. GRAPES | P3_CR_GRAPES |
| 25. HAY OR FORAGE | P3_CR_HAY |

26. MELONS	P3_CR_MELONS
27. OATS	P3_CR_OATS
28. PEACHES	P3_CR_PEACHES
29. PEANUTS	P3_CR_PEAUNTS
30. PEPPERS	P3_CR_PEPPERS
31. POTATOES	P3_CR_POTATOES
32. RYE	P3_CR_RYE
33. SNAPBEANS	P3_CR_SNAPBEANS
34. SORGHUM	P3_CR_SORGHUM
35. SOYBEANS	P3_CR_SOYBEANS
36. STRAWBERRIES	P3_CR_STRWBERRIES
37. SWEET POTATOES	P3_CR_SWEETPOTATOES
38. TOMATOES	P3_CR_TOMATOES
39. TOBACCO	P3_CR_TOBACCO
40. WHEAT	P3_CR_WHEAT
41. NURSERY CROPS	P3_CR_NURSERY_CROPS
42. PUMPKINS	P3_CR_PUMPKINS
91. OTHER, SPECIFY	P3_CR_OTHER
98. REF	
99. DK	

New indicator variables were created to permit recoding of some of the “Other” responses. See Appendix A for a full list of all indicator variables associated with this question.

BOX Q2.3a: If no Crop = “other”, skip to Q2.4.

P3_OTHCROP

Q2.3a) [Excluding gardens for personal use, what crops, including fruits and vegetables, were raised on your farm since ^DSP.YearOfLastInterview?]

OTHER, SPECIFY: _____

P3_CPAC

Q2.4) Since ^DSP.YearOfLastInterview, in an average year, how many total acres of crops did you grow?

____ [Range: 1 to 100000]

999997. Less than one

999998. REF

999999. DK

Q2.5) (Since ^DSP.YearOfLastInterview), what poultry or livestock did you raise on your farm?

[CODE ALL THAT APPLY]

10. NONE	P3_AN_NONE
11. NON DAIRY CATTLE	P3_AN_CATTLE_NONDAIRY
12. DAIRY CATTLE	P3_AN_CATTLE_DAIRY
13. HOGS/SWINE	P3_AN_HOGS
14. POULTRY	P3_AN_POULTRY
15. POULTRY FOR EGGS	P3_AN_POULTRY_EGGS
16. SHEEP OR GOATS	P3_AN_SHEEP
17. HORSES	P3_AN_HORSES
91. OTHER, SPECIFY	P3_AN_OTHER
98. REF	
99. DK	

New indicator variables were created to permit recoding of some of the “Other” responses. See Appendix A for a full list of all indicator variables associated with this question.

BOX Q2.5a: If no Anim = "other", skip to Q2.6.

P3_OTHANIM

Q2.5a) [Since ^DSP.YearOfLastInterview, what poultry or livestock did you raise on your farm?]
OTHER ANIMAL SPECIFIED: _____

Q2.6) (Since ^DSP.YearOfLastInterview), what was the largest number of animals you had at any one time?

____ [Range: 0 to 999,996]
999998. REF P3_AN_CATTLE_NONDAIRY_NUMBER
999999. DK P3_AN_CATTLE_DAIRY_NUMBER
P3_AN_HOGS_NUMBER
P3_AN_POULTRY_NUMBER
P3_AN_POULTRY_EGGS_NUMBER
P3_AN_SHEEP_NUMBER
P3_AN_HORSES_NUMBER
P3_AN_OTHER_NUMBER

P3_MACHINETILL

Q2.7a) Since ^DSP.YearOfLastInterview, how often did you personally:
Till or disc the soil with farm machinery. Was it:

- 0. Never
- 1. Less than 10 days per year
- 2. 10 to 30 days per year
- 3. More than 30 days per year
- 8. REF
- 9. DK

P3_MACHINEHARV

Q2.7b) [Since ^DSP.YearOfLastInterview, how often did you personally]
Harvest crops with farm machinery. Was it:

- 0. Never
- 1. Less than 10 days per year
- 2. 10 to 30 days per year
- 3. More than 30 days per year
- 8. REF
- 9. DK

P3_HANDHARV

Q2.7c) [Since ^DSP.YearOfLastInterview, how often did you personally]
Harvest crops by hand? Was it:

- 0. Never
- 1. Less than 10 days per year
- 2. 10 to 30 days per year
- 3. More than 30 days per year
- 8. REF
- 9. DK

P3_NATFER

Q2.7d) [Since ^DSP.YearOfLastInterview, how often did you personally]
Apply natural fertilizers, such as manure, to fields? Was it:

- 0. Never
- 1. Less than 10 days per year
- 2. 10 to 30 days per year
- 3. More than 30 days per year
- 8. REF
- 9. DK

P3_OPDIESLTRAC

Q2.8) [Since ^DSP.YearOfLastInterview, how often did you personally] Operate diesel-powered tractors? Was it:

- 0. Never
- 1. Less than 10 days per year
- 2. 10 to 30 days per year
- 3. 31 to 90 days per year
- 4. More than 90 days per year
- 8. REF
- 9. DK

SECTION 3. GENERAL PESTICIDE USAGE

P3_CERTPESTAP

3.1) Are you currently a certified (or licensed) pesticide applicator or handler?

- 0. NO (Skip to Q3.2)
- 1. YES
- 8. REF (Skip to Q3.2)
- 9. DK (Skip to Q3.2)

P3_CERTCMLPRIAP1

3.1a) Is your certification (or license) for commercial or private application of pesticides?

[CHECK ALL THAT APPLY]

- 1. COMMERCIAL
- 2. PRIVATE
- 3. PUBLIC
- 4. SOMETHING ELSE
- 8. REF
- 9. DK

P3_MIXAPL

Q3.2) We would now like to ask about your use of pesticides since ^DSP.YearOfLastInterview, including 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.

Since ^DSP.YearOfLastInterview, 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?

- 0. NO (Skip to Section 7)
- 1. YES
- 8. REF (Skip to Section 7)
- 9. DK (Skip to Section 7)

P3_YMXAPL

Q3.3) Since ^DSP.YearOfLastInterview, for how many years did you personally mix, load, handle or apply any of these chemicals?

[ENTER 97 FOR EVERY YEAR]

__|__| [Range: 1 – 50]

- 97. EVERY YEAR
- 98. REF
- 99. DK

P3_DMXPAL

Q3.4) (Since ^DSP.YearOfLastInterview), for how many days per year on average did you personally mix, load, handle or apply any of these chemicals?

__|__|__| [Range: 1 – 365]

- 998. REF
- 999. DK

SECTION 4. PESTICIDE NAMES AND FREQUENCY OF USE¹

[NOTE: For this section of the interview, a list of the pesticide names that were previously reported by each participant during the Phase II interview will be displayed. When the participant reports the names of pesticides in current use, the name should be selected from the list displayed, if present. If the name is not on the list displayed, then the name can be either selected from a master list of all pesticide names, or else entered verbatim. For subjects who did not participate in Phase II, or who did not report use of pesticides during Phase II, no list will be displayed]

Q4.1) Now we are going to ask you about crops. Since <Year of last interview>, have you personally used herbicides, insecticides, fungicides, fumigants or any other pesticides for crops or any other type of plants, including vegetables, greenhouse crops, nurseries, orchards, trees, or turf and sod?

- 0. NO (Skip to Q4.2)
- 1. YES
- 8. REF (Skip to Q4.2)
- 9. DK (Skip to Q4.2)

P3_PESTICIDE_VERBATIM¹

Q4.1a) What did you use? Please give product trade names, if possible. If you would like to get a list, we can hold the line while you do so.

<Display list of previously reported pesticide names for this applicator>
[Note: Select pesticide name from list; or enter name if not listed]

BOX Q4.1c: If "other" not listed, skip to Q4.2.

P3_PESTICIDE_VERBATIM¹

Q4.1c) [What did you use for crops or other types of plants? Please give product trade names, if possible.]

SPECIFY, OTHER PESTICIDES USED ON CROPS: _____

Q4.2) Now I am going to ask you about animals. (Since ^DSP.YearOfLastInterview), have you personally used insecticides or any other pesticides on farm animals or animal confinement areas?

- 0. NO (Skip to Q4.3)
- 1. YES
- 8. REF (Skip to Q4.3)
- 9. DK (Skip to Q4.3)

P3_PESTICIDE_VERBATIM¹

Q4.2a) What did you use (on animals or animal confinement areas)? Please do not include antibiotics and feed additives.

<Display list of previously reported pesticide names for this applicator>
[Note: Select pesticide name from list; or enter name if not listed]

BOX Q4.2c: If "other" not listed, skip to Q4.3.

¹ Variables from Section 4 are found in the Supplemental Pesticide File. Note that the Supplemental Pesticide File has a separate record for each unique combination of respondent ID, pesticide name, and application target (animal, crop, or non-crop).

P3_PESTICIDE_VERBATIM¹ above

Q4.2c) [What did you use (for application to animals or animal confinement areas)? Please do not include antibiotics and feed additives. (Please give the product trade name, if possible.)]

SPECIFY, OTHER PESTICIDES USED ON ANIMALS: _____

Q4.3) Excluding home and garden use, since ^DSP.YearOfLastInterview, have you personally used herbicides, insecticides, fungicides, fumigants, rodenticides or other pesticides for application to pastures, fence rows, road sides, around buildings, grain bins, for rodent control or for applications not already mentioned?

- 0. NO (Skip to Q4.3e)
- 1. YES
- 8. REF (Skip to Q4.3e)
- 9. DK (Skip to Q4.3e)

P3_PESTICIDE_VERBATIM¹ above

Q4.3a) Other than home and garden use, what did you use (for applications, such as pastures, fence rows, roadsides, buildings, grain bins, for rodent control or for applications not already mentioned? Please use the product trade name, if possible.)

<Display list of previously reported pesticide names for this applicator>
[Note: Select pesticide name from list; or enter name if not listed]

BOX Q4.3c: If "other" not listed, skip to Q4.3e.

P3_PESTICIDE_VERBATIM¹ above

Q4.3c) [Other than home and garden use, what did you use (for these types of applications, such as pastures, fence rows, roadsides, around buildings, grain bins, for rodent control or for applications not already mentioned? Please give the product trade name, if possible.)]

SPECIFY, OTHER PESTICIDES USED ON NON-CROPS: _____

Q4.3e) ONCE CONTINUE IS SELECTED, YOU CANNOT GO BACK AND ADD MORE PESTICIDES.

- 1. CONTINUE

[Note: Ask Q4.5 only for pesticide names on the list of previously reported pesticide names that are flagged "A-List" and have not been reported during this interview.]

Q4.5) I would like to ask about some other commonly used pesticides that you have not mentioned. Have you personally mixed, loaded, handled, or applied ^PestNotMentioned since ^DSP.YearOfLastInterview?

- 0. NO
- 1. YES
- 2. ALREADY MENTIONED
- 8. REF
- 9. DK

Q4.5a1) ONCE CONTINUE IS SELECTED, YOU CANNOT GO BACK AND CHANGE YOU ANSWER FOR PHASE II PESTICIDE USAGE.

- 1. CONTINUE

Q4.5a) Are there any other pesticides that you have used that you have not mentioned, not including pesticides for home and garden use?

- 0. NO (Skip to Q4.5h)
- 1. YES
- 8. REF (Skip to Q4.5h)
- 9. DK (Skip to Q4.5h)

P3_PESTICIDE_VERBATIM¹ above

Q4.5b) What pesticide did you use?

OTHER PESTICIDE:

BOX Q4.5e: If "other" not listed, skip to Q4.5c.

P3_PESTICIDE_VERBATIM¹ above

Q4.5e) [What pesticide did you use?]

SPECIFY, OTHER PESTICIDES USED: _____

P3_CRANNC_IND¹ above

Q4.5c) Was it applied to crops, animals, or non-crops?

1. CROPS
2. ANIMALS
3. NON-CROPS
8. REF
9. DK

Q4.5h) Now I would like to ask you about how often you have used the pesticides mentioned during this interview over your lifetime.

1. CONTINUE

NOTE: ASK Q4.6 AND Q4.7 TO DETERMINE FREQUENCY OF USE FOR EACH PESTICIDE NAME REPORTED IN Q4.1a, Q4.2a, Q4.3a, or Q4.5b ABOVE

P3_YRSLIFE¹ above

Q4.6) You mentioned that you have used ^Pesticide_Verbatim ^Pst_Used_On_Txt. For how many years over your lifetime have you personally mixed, loaded, handled, or applied this pesticide?

__|__| [Range: 1 to 96]

97. INCORRECT PESTICIDE
98. REF
99. DK

P3_DAYSRLIFE¹ above

Q4.7) During the years you applied ^Pesticide_Verbatim ^Pst_Used_On_Txt, for how many days per year on average did you personally mix, load, handle, or apply it?

__|__|__| [Range: 1 to 365]

998. REF
999. DK

REPEAT Q4.6 AND Q4.7 FOR EACH PESTICIDE NAME MARKED ON LIST

SECTION 5. APPLICATION METHODS AND PPE USE FOR MOST FREQUENTLY APPLIED PESTICIDES

P3_HIGHUSECROPPANIMALINCFLAG²

We would now like to ask about the application methods you used for handling pesticides since <year of last interview>.

[Note: Based on the days per year for each pesticide reported in Section 4, the names of the pesticide applied the most days per year in six categories of use will be identified and used for prompting when collecting information on mixing and application methods.]

- | | |
|---|-----------------------|
| 1. Herbicide to crop: | ^PST.HighCropHerb |
| 2. Insecticide to crop: | ^PST.HighCropInsect |
| 3. Fungicide to crop: | ^PST.HighCropFung |
| 4. Insecticide to animal: | ^PST.HighAnimalInsect |
| 5. Pesticide for non crop applications: | ^PST.HighNonCropPest |
| 6. Fumigants | ^PST.HighFumigant |

[BOX 5.1: Ask Q5.1 to Q5.8 only for applicators who reported “Yes” to Q4.1 and who reported use of at least one herbicide for application to crops; Else skip to BOX 5.2

P3_CROPMXLD_CROPHRB²

Q5.1) On the days when ^PST.HighCropHerb was applied to crops or other plants, how often did you personally mix it or load it into the application equipment? Was it:

- | | |
|------------------------------------|-------------------|
| 1. Never | (Skip to Q5.3) |
| 2. Less than half the days | |
| 3. Half or more than half the days | |
| 4. Always | |
| 7. INCORRECT PESTICIDE | (Skip to Box 5.2) |
| 8. REF | (Skip to Q5.3) |
| 9. DK | (Skip to Q5.3) |

P3_XSDAYMXLD_CROPHRB²

Q5.2) How many times per day, on average, did you personally mix this pesticide ^PST.HighCropHerb or load it into the application tank or bin?

- __|__| [Range: 1 to 96]
98. REF
99. DK

P3_PERSAPPL_CROPHRB²

Q5.3) Since ^DSP.YearOfLastInterview, on the days when ^PST.HighCropHerb was applied to crops or other plants, did you personally apply it?

- | | |
|--------|-------------------|
| 0. NO | (Skip to Box 5.2) |
| 1. YES | |
| 8. REF | (Skip to Box 5.2) |
| 9. DK | (Skip to Box 5.2) |

P3_TRACOTHVEH_CROPHRB²

Q5.4) Did you use a tractor or other farm vehicle to apply ^PST.HighCropHerb?

- | | |
|--------|-----------------|
| 0. NO | (Skip to Q5.6a) |
| 1. YES | |
| 8. REF | (Skip to Q5.6a) |
| 9. DK | (Skip to Q5.6a) |

² Variable in the Supplemental Pesticide File. Note that the Supplemental Pesticide File has a separate record for each unique combination of respondent ID, pesticide name, and application target (animal, crop, or non-crop).

P3_ENCLOSEDCAB_CROPHRB² above

Q5.5) Did the tractor or farm vehicle you usually used to apply this pesticide have an enclosed cab?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_LIQGRAN_CROPHRB² above

Q5.6a) When you applied ^PST.HighCropHerb to crops, was it liquid, granular, powder, or something else?

- 1. LIQUID (Skip to Q5.7)
- 2. GRANULAR (Skip to Q5.7)
- 3. POWDER (Skip to Q5.7)
- 4. SOMETHING ELSE
- 8. REF (Skip to Q5.7)
- 9. DK (Skip to Q5.7)

P3_LIQGRANNOT_CROPHRB² above

Q5.6b) (What form was the ^PST.HighCropHerb when it was applied to crops or other plants?)
What was it?

OTHER, SPECIFY: _____

P3_APPLY_METHOD1² above

Q5.7) When you applied ^PST.HighCropHerb to crops, what application method did you use the most? Was it:

- 1. Broadcast (Skip to Q5.7c)
- 2. Banded, or In-Furrow (Skip to Q5.7c)
- 3. Hand-held Sprayer (Skip to Q5.7c)
- 4. Something Else
- 8. REF (Skip to Q5.7c)
- 9. DK (Skip to Q5.7c)

P3_APPLY_METHOD1_NAME² above

Q5.7a) [What method did you use when you applied ^PST.HighCropHerb to crops?] What was it?

Application Method:

<<display drop down list - mark one>>

BOX Q5.7b: If "other" not listed, skip to Q5.7c.

P3_OTHAPPLMETH_CROPHRB² above

Q5.7b) [What method did you use when you applied ^PST.HighCropHerb to crops?]

OTHER, SPECIFY: _____

P3_APPLY_METHOD1_SEC² above

Q5.7c) When you applied ^PST.HighCropHerb to crops, what application method did you use the second most?
Was it:

- 1. NONE (Skip to Q5.8)
- 2. BROADCAST (Skip to Q5.8)
- 3. BANDED, OR IN-FURROW (Skip to Q5.8)
- 4. HAND-HELD SPRAYER (Skip to Q5.8)
- 5. SOMETHING ELSE
- 8. REF (Skip to Q5.8)
- 9. DK (Skip to Q5.8)

P3_APPLY_METHOD1_NAME_SEC² above

Q5.7d) [When you applied ^PST.HighCropHerb to crops, what application method did you use the second most?] What was it?

Application Method:
<<display drop down list - mark one>>

BOX Q5.7e: If "other" not listed, skip to Q5.8.

P3_OTHAPPLMETHSEC_CROPHRB² above

Q5.7e) [When you applied ^PST.HighCropHerb to crops, what application method did you use the second most?] OTHER, SPECIFY: _____

P3_HOURS_CROPHRB² above

Q5.8) For how many hours per day on average did you personally mix, load, handle, or apply ^PST.HighCropHerb?

- HOURS [Range: 1 to 20]
97. LESS THAN ONE HOUR
98. REF
99. DK

BOX 5.2: Ask Q5.9 to Q5.16 only for applicators who reported "Yes" to Q4.1 and who reported use of at least one insecticide (pesticide name 2) for application to crops, Else skip to BOX 5.3

P3_CROPMXLD_CROPINS² above

Q5.9) On the days when ^PST.HighCropInsect was applied to crops or other plants, how often did you personally mix it or load it into the application equipment? Was it:

1. Never (Skip to Q5.11)
2. Less than half the days
3. Half or more than half the days
4. Always
7. INCORRECT PESTICIDE (Skip to Box 5.3)
8. REF (Skip to Q5.11)
9. DK (Skip to Q5.11)

P3_PERSAPPL_CROPINS² above

Q5.10) How many times per day, on average, did you personally mix this pesticide (^PST.HighCropInsect) or load it into the application tank or bin when applied to crops or other plants?

- [Range: 1 to 96]
98. REF
99. DK

P3_PERSAPPL_CROPINS² above

Q5.11) Since ^DSP.YearOfLastInterview, on the days when ^PST.HighCropInsect was applied to crops or other plants, did you personally apply it?

0. NO (Skip to Box 5.3)
1. YES
8. REF (Skip to Box 5.3)
9. DK (Skip to Box 5.3)

P3_TRACOTHVEH_CROPINS² above

Q5.12) Did you use a tractor or other farm vehicle to apply ^PST.HighCropInsect?

- 0. NO (Skip to Q5.14a)
- 1. YES
- 8. REF (Skip to Q5.14a)
- 9. DK (Skip to Q5.14a)

P3_ENCLOSEDCAB_CROPINS² above

Q5.13) Did the tractor or farm vehicle you usually used to apply ^PST.HighCropInsect (to crops and other plants) have an enclosed cab?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_LIQGRAN_CROPINS² above

Q5.14a) When you applied ^PST.HighCropInsect to crops, was it liquid, granular, powder, or something else?

- 1. LIQUID (Skip to Q5.15)
- 2. GRANULAR (Skip to Q5.15)
- 3. POWDER (Skip to Q5.15)
- 4. SOMETHING ELSE
- 8. REF (Skip to Q5.15)
- 9. DK (Skip to Q5.15)

P3_LIQGRANNOT_CROPINS² above

Q5.14c) [What form was the ^PST.HighCropInsect when it was applied to crops?]
What was it?

P3_APPLY_METHOD1² above

Q5.15) When you applied ^PST.HighCropInsect to crops, what application method did you use the most? Was it:

- 1. Broadcast (Skip to Q5.15c)
- 2. Banded, or In-Furrow (Skip to Q5.15c)
- 3. Hand-held sprayer (Skip to Q5.15c)
- 4. Something Else
- 8. REF (Skip to Q5.15c)
- 9. DK (Skip to Q5.15c)

P3_APPLY_METHOD1_NAME² above

Q5.15a) [When you applied ^PST.HighCropInsect to crops, what application method did you use the most?]
What was it?

Application Method:
<<display drop down list - mark one>>

BOX Q5.15b: If "other" not listed, skip to Q5.15c.

P3_OTHAPPLMETH_CROPINS² above

Q5.15b) [When you applied ^PST.HighCropInsect to crops, what application method did you use the most?]
OTHER, SPECIFY: _____

P3_APPLY_METHOD1_SEC² above

Q5.15c) When you applied ^PST.HighCropInsect to crops, what application method did you use the second most?

- 1. NONE (Skip to Q5.16)
- 2. BROADCAST (Skip to Q5.16)
- 3. BANDED OR IN-FURROW (Skip to Q5.16)
- 4. HAND-HELD SPRAYER (Skip to Q5.16)
- 5. SOMETHING ELSE
- 8. REF (Skip to Q5.16)
- 9. DK (Skip to Q5.16)

P3_APPLY_METHOD1_NAME_SEC² above

Q5.15d) [When you applied ^PST.HighCropInsect to crops, what application method did you use the second most?] What was it?

Application Method: <<display drop down list - mark one>>

BOX Q5.15e: If "other" not listed, skip to Q5.16.

P3_OTHAPPLMETHSEC_CROPINS² above

Q5.15e) [When you applied ^PST.HighCropInsect to crops, what application method did you use the second most?] OTHER, SPECIFY: _____

P3_HOURS_CROPINS² above

Q5.16) For how many hours per day on average did you personally mix, load, handle, or apply ^PST.HighCropInsect?

- HOURS [Range: 1 to 20]
- 97. LESS THAN ONE HOUR
- 98. REF
- 99. DK

BOX 5.3: Ask Q5.17 to Q5.24 only for applicators who reported "Yes" to Q4.1 and who reported use of at least one fungicide for application to crops, Else Skip to BOX 5.4

P3_CROPMXLD_FNG² above

Q5.17) On the days when ^PST.HighCropFung was applied to crops or other plants, how often did you personally mix it or load it into the application equipment? Was it:

- 1. Never (Skip to Q5.19)
- 2. Less than half the days
- 3. Half or more than half the days
- 4. Always
- 7. INCORRECT PESTICIDE (Skip to Box 5.4)
- 8. REF (Skip to Q5.19)
- 9. DK (Skip to Q5.19)

P3_XSDAYMXLD_FNG² above

Q5.18) How many times per day, on average, did you personally mix this pesticide (^PST.HighCropFung) or load it into the application tank or bin?

- [Range: 1 to 96]
- 98. REF
- 99. DK

P3_PERSAPPL_FNG² above

Q5.19) Since ^DSP.YearOfLastInterview, on the days when ^PST.HighCropFung was applied to crops or other plants, did you personally apply it?

- 0. NO (Skip to Box 5.4)
- 1. YES
- 8. REF (Skip to Box 5.4)
- 9. DK (Skip to Box 5.4)

P3_TRACOTHVEH_FNG² above

Q5.20) Did you use a tractor or other farm vehicle to apply ^PST.HighCropFung?

- 0. NO (Skip to Q5.22)
- 1. YES
- 8. REF (Skip to Q5.22)
- 9. DK (Skip to Q5.22)

P3_ENCLOSEDCAB_FNG² above

Q5.21) Did the tractor or farm vehicle you usually used to apply ^PST.HighCropFung have an enclosed cab?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_LIQGRAN_FNG² above

Q5.22) When you applied ^PST.HighCropFung to crops, was it liquid, granular, powder, or something else?

- 1. LIQUID (Skip to Q5.23)
- 2. GRANULAR (Skip to Q5.23)
- 3. POWDER (Skip to Q5.23)
- 4. SOMETHING ELSE
- 8. REF (Skip to Q5.23)
- 9. DK (Skip to Q5.23)

P3_LIQGRANNOT_FNG² above

Q5.22a) [What form was the ^PST.HighCropFung when it was applied to crops?]
What was it?

OTHER, SPECIFY: _____

P3_APPLY_METHOD1² above

Q5.23) When you applied ^PST.HighCropFung to crops, what application method did you use the most? Was it:

- 1. Broadcast (Skip to Q5.23c)
- 2. Banded, or In-Furrow (Skip to Q5.23c)
- 3. Hand-held Sprayer (Skip to Q5.23c)
- 4. Something Else
- 8. REF (Skip to Q5.23c)
- 9. DK (Skip to Q5.23c)

P3_APPLY_METHOD1_NAME² above

Q5.23a) [What method did you use when you applied ^PST.HighCropFung to crops?]
What was it?

Application Method:
<<display drop down list - mark one>>

BOX Q5.23b: If "other" not listed, skip to Q5.23c.

P3_OTHAPPLMETH_FNG² above

Q5.23b) [What method did you use when you applied ^PST.HighCropFung to crops?]
OTHER, SPECIFY: _____

P3_APPLY_METHOD1_SEC² above

Q5.23c) When you applied ^PST.HighCropFung to crops, what application method did you use the second most?

- 0. NONE (Skip to Q5.24)
- 1. BROADCAST (Skip to Q5.24)
- 2. BANDED OR IN-FURROW (Skip to Q5.24)
- 3. HAND-HELD SPRAYER (Skip to Q5.24)
- 4. SOMETHING ELSE
- 8. REF (Skip to Q5.24)
- 9. DK (Skip to Q5.24)

P3_APPLY_METHOD1_NAME_SEC² above

Q5.23d) [What method did you use second most when you applied ^PST.HighCropFung to crops?]
What was it?

Application Method:
<<display drop down list - mark one>>

BOX Q5.23e: If "other" not listed, skip to Q5.24.

P3_OTHAPPLMETHSEC_FNG² above

Q5.23e) [What method did you use second most when you applied ^PST.HighCropFung to crops?]
OTHER, SPECIFY: _____

P3_HOURS_FUNGICIDE² above

Q5.24) For how many hours per day on average did you personally mix, load, handle, or apply ^PST.HighCropFung (for crops and other plants)?

- [ENTER 97 FOR LESS THAN 1 HOUR]
 |_|_| HOURS [Range: 1 to 20]
 97. LESS THAN ONE HOUR
 98. REF
 99. DK

BOX 5.4: Ask Q5.25 to Q5.27 only for applicators who answered "Yes" to Q4.2; and reported the name of at least one insecticide applied to animals; else skip to BOX 5.5

P3_ANIMMXLD_ANIMALINS² above

Q5.25) These next questions are about your use of insecticides on animals or animal confinement areas. Since ^DSP.YearOfLastInterview, when you applied ^PST.HighAnimalInsect on animals or animal confinement areas, how often did you personally mix the insecticide or load the application equipment yourself? Was it . . .

- 1. Never
- 2. Less than half the days
- 3. Half or more than half the days
- 4. Always
- 7. INCORRECT PESTICIDE (Skip to Box 5.5)
- 8. REF
- 9. DK

P3_APPLY_METHOD1² above

Q5.26) When you applied ^PST.HighAnimalInsect on animals or animal confinement areas, what application method did you use the most? Was it:

- 0. DID NOT APPLY (Skip to Q5.27)
- 1. Dips, pour-ons (also hand wipes, oral paste, or boluses) (Skip to Q5.26c)
- 2. Sprayer or Duster (backpack sprayer, air sprayer) (Skip to Q5.26c)
- 3. Something Else
- 8. REF (Skip to Q5.26c)
- 9. DK (Skip to Q5.26c)

P3_APPLY_METHOD1_NAME² above

Q5.26a) [What method did you use when you applied ^PST.HighAnimalInsect on animals or animal confinement areas?]

What was it?

Application Method:

<<display drop down list - mark one>>

BOX Q5.26b: If "other" not listed, skip to Q5.26c.

P3_OTHAPPLMETH_ANIMALINS² above

Q5.26b) [What method did you use when you applied ^PST.HighAnimalInsect on animals or animal confinement areas?]

OTHER, SPECIFY: _____

P3_APPLY_METHOD1_SEC² above

Q5.26c) When you applied ^PST.HighAnimalInsect on animals or animal confinement areas, what application method did you use the second most?

- 1. NONE (Skip to Q5.27)
- 2. Dips, pour-ons (also hand wipes, oral paste, or boluses) (Skip to Q5.27)
- 3. Sprayer or Duster (backpack sprayer, air sprayer) (Skip to Q5.27)
- 4. Something Else
- 8. REF (Skip to Q5.27)
- 9. DK (Skip to Q5.27)

P3_APPLY_METHOD1_NAME_SEC² above

Q5.26d) [What method did you use the second most when you applied ^PST.HighAnimalInsect on animals or animal confinement areas?]

What was it?

Application Method:

<<display drop down list - mark one>>

BOX Q5.26e: If "other" not listed, skip to Q5.27.

P3_OTHAPPLMETHSEC_ANIMALINS² above

Q5.26e) [What method did you use the second most when you applied ^PST.HighAnimalInsect on animals or animal confinement areas?]

OTHER, SPECIFY: _____

P3_HOURS_ANIMALINS² above

Q5.27) For how many hours per day on average did you personally mix, load, handle, or apply ^PST.HighAnimalInsect?

[ENTER 97 FOR LESS THAN 1 HOUR]

____ HOURS [Range: 1 to 20]

97. LESS THAN ONE HOUR

98. REF

99. DK

BOX 5.5 – Ask Q5.28 to Q5.30 only for applicators who answered yes to Q4.3; and reported the name of at least one pesticide applied for non-crop application; else skip to BOX 5.6

P3_OTHMXXLD_NONCROPPEST² above

Q5.28) These next questions are about the pesticides you applied for purposes other than to crops or animals. (Since ^DSP.YearOfLastInterview), on days when ^PST.HighNonCropPest was applied, how often did you personally mix the pesticide or load the application equipment yourself? Was it:

- 1. Never
- 2. Less than half the days
- 3. Half or more than half the days
- 4. Always
- 7. INCORRECT PESTICIDE (Skip to Box 5.6)
- 8. REF
- 9. DK

P3_APPLY_METHODI² above

Q5.29) When you applied ^PST.HighNonCropPest, what application method did you use the most? Was it:

- 0. DID NOT APPLY (Skip to Box 5.6)
- 1. Hand-held Sprayer (gun, wand, boom, or pump) (Skip to Q5.29c)
- 2. Broadcast from Farm Vehicle (NOT hand-held) (Skip to Q5.29c)
- 3. Backpack Sprayer (Skip to Q5.29c)
- 4. Dusting by hand (including powders) (Skip to Q5.29c)
- 5. Something Else
- 7. INCORRECT PESTICIDE (Skip to Box 5.6)
- 8. REF (Skip to Q5.29c)
- 9. DK (Skip to Q5.29c)

P3_APPLY_METHODI_NAME² above

Q5.29a) [What method did you use when you applied ^PST.HighNonCropPest?]

What was it?

Application Method: <<display drop down list - mark one>>

BOX Q5.29b: If “other” not listed, skip to Q5.29c.

P3_OTHAPPMETH_NONCROPPEST² above

Q5.29b) [What method did you use when you applied ^PST.HighNonCropPest?]

OTHER, SPECIFY: _____

P3_APPLY_METHOD1_SEC² above

Q5.29c) When you applied ^PST.HighNonCropPest, what application method did you use the second most?

- 0. NONE
- 1. HAND-HELD SPRAYER (Skip to Q5.30)
- 2. BROADCAST FROM FARM VEHICLE (Skip to Q5.30)
- 3. BACKPACK SPRAYER (Skip to Q5.30)
- 4. DUSTING BY HAND (Skip to Q5.30)
- 5. SOMETHING ELSE
- 8. REF (Skip to Q5.30)
- 9. DK (Skip to Q5.30)

P3_APPLY_METHOD1_NAME_SEC² above

Q5.29d) [What method did you use the second most when you applied ^PST.HighNonCropPest?] What was it?

Application Method: <<display drop down list - mark one>>

BOX Q5.29e: If "other" not listed, skip to Q5.30.

P3_OTHSPPMETHSEC_NONCROPPEST² above

Q5.29e) [What method did you use the second most when you applied ^PST.HighNonCropPest?] OTHER, SPECIFY: _____

P3_HOURS_NONCROPPEST² above

Q5.30) For how many hours per day on average did you personally mix, load, handle, or apply ^PST.HighNonCropPest?

- HOURS [Range: 1 to 20]
- 97. LESS THAN ONE HOUR
- 98. REF
- 99. DK

BOX 5.6: Ask Q5.31 to Q5.32 only for applicators who answered yes to Q4.3; and reported the name of at least one fumigant; else skip to Box 5.7.

P3_APPLY_METHOD² above

Q5.31) We would now like to ask about your use of ^PST.HighFumigant. When you applied ^PST.HighFumigant, what application method did you use the most? Was it:

- 0. DID NOT APPLY (Skip to Box 5.7)
- 1. Hand-held Sprayer (gun, wand, boom, or pump) (Skip to Q5.31c)
- 2. Broadcast from Farm Vehicle (NOT hand-held) (Skip to Q5.31c)
- 3. Backpack Sprayer (Skip to Q5.31c)
- 4. Dusting by hand (including powders) (Skip to Q5.31c)
- 5. Something Else
- 7. INCORRECT PESTICIDE (Skip to Box 5.7)
- 8. REF (Skip to Q5.31c)
- 9. DK (Skip to Q5.31c)

P3_APPLY_METHOD1_NAME² above

Q5.31a) [What method did you use when you applied ^PST.HighFumigant?] What was it?

Application Method: <<display drop down list - mark one>>

BOX Q5.31b: If "other" not listed, skip to Q5.31e.

P3_OTHAPPLMETH_FUM² above

Q5.31b) [What method did you use when you applied ^PST.HighFumigant?]

OTHER, SPECIFY: _____

P3_APPLY_METHOD1_SEC² above

Q5.31c) When you applied ^PST.HighFumigant, what application method did you use the second most?

- 0. NONE (Skip to Q5.32)
- 1. HAND-HELD SPRAYER (Skip to Q5.32)
- 2. BROADCAST FROM FARM VEHICLE (Skip to Q5.32)
- 3. BACKPACK SPRAYER (Skip to Q5.32)
- 4. DUSTING BY HAND (Skip to Q5.32)
- 5. SOMETHING ELSE
- 8. REF (Skip to Q5.32)
- 9. DK (Skip to Q5.32)

P3_APPLY_METHOD1_NAME_SEC² above

Q5.31d) [What method did you use the second most when you applied ^PST.HighFumigant?]

What was it?

Application Method:

<<display drop down list - mark one>>

BOX Q5.31e: If "other" not listed, skip to Q5.32.

P3_OTHAPPLMETHSEC_FUM² above

Q5.31e) [What method did you use the second most when you applied ^PST.HighFumigant?]

OTHER, SPECIFY: _____

P3_HOURS_FUM² above

Q5.32) For how many hours per day on average did you personally mix, load, handle, or apply ^PST.HighFumigant?

- __|__| HOURS [Range: 1 to 20]
- 97. LESS THAN ONE HOUR
- 98. REF
- 99. DK

BOX 5.7: Ask Q5.33 to Q5.35a only for applicators who reported mixing and loading at least one pesticide; else skip to Q5.36.

P3_GLOVEMX

Q5.33) Since ^DSP.YearOfLastInterview, when you **mixed and/or loaded** herbicides, insecticides, fungicides or other pesticides, did you normally wear gloves?

- 0. NO (Skip to 5.35)
- 1. YES
- 8. REF (Skip to 5.35)
- 9. DK (Skip to 5.35)

P3_GLOVETYP

Q5.34) What type of glove did you normally wear? Was it:

- 1. Chemical Resistant Glove, like Nitrile (Skip to Q5.35)
- 2. Rubber or Plastic Waterproof Glove (Skip to Q5.35)
- 3. Thin Disposable Glove Like Latex (Skip to Q5.35)
- 4. Fabric or Leather (Skip to Q5.35)
- 91. OTHER, SPECIFY
- 98. REF (Skip to Q5.35)
- 99. DK (Skip to Q5.35)

P3_OTHGLOVETYPE

Q5.34a) [What type of glove did you normally wear?]

OTHER, SPECIFY: _____

Q5.35) What (other) protective equipment did you normally wear (when you mixed herbicides, insecticides, fungicides, or other pesticides)? Did you wear: (CHECK ALL THAT APPLY)

- 0. NONE P3_NO_PPE_MIX
- 1. Goggles P3_GOGGLES_MIX
- 2. Face Shield P3_FACE_SHIELD_MIX
- 3. Disposable Coveralls, like Tyvek P3_TYVEK_MIX
- 4. Rubber boots P3_BOOTS_MIX
- 5. Respirator with cartridge P3_RESP_MIX
- 6. Dust mask P3_DUST_MASK_MIX
- 7. Long-sleeved shirt P3_LONG_SLEEVES_MIX
- 91. OTHER P3_PPE_OTHER_MIX
- 98. REF
- 99. DK

New indicator variables were created to permit recoding of some of the “Other” responses. See Appendix A for a full list of all indicator variables associated with this question.

BOX Q5.35a: If no PPE = “other”, skip to Q5.36.

P3_OTHPEPE_MIX

Q5.35a) [What (other) protective equipment did you normally wear (when you mixed herbicides, insecticides, fungicides, or other pesticides)?]

OTHER, SPECIFY: _____

P3_GLOVEAPPL

Q5.36) Since ^DSP.YearOfLastInterview, when you **applied** pesticides, did you normally wear gloves?

- 0. NO (Skip to 5.38)
- 1. YES
- 8. REF (Skip to 5.38)
- 9. DK (Skip to 5.38)

P3_GLOVEAPPLTYP

Q5.37) What type of glove did you normally wear? Was it:

- 1. Chemical Resistant Glove, like Nitrile (Skip to Q5.38)
- 2. Rubber or Plastic Waterproof Glove (Skip to Q5.38)
- 3. Thin Disposable Glove like Latex (Skip to Q5.38)
- 4. Fabric or Leather (Skip to Q5.38)
- 91. OTHER
- 98. REF (Skip to Q5.38)
- 99. DK (Skip to Q5.38)

P3_OTHGLOVEAPPL

Q5.37a) [What type of glove did you normally wear?]

OTHER, SPECIFY: _____

Q5.38) What (other) protective equipment did you normally wear (when you **applied** pesticides)? Did you wear:
(CHECK ALL THAT APPLY)

- | | |
|-------------------------------------|-----------------------|
| 0. NONE | P3_NO_PPE_APPLY |
| 1. Goggles | P3_GOGGLES_APPLY |
| 2. Face Shield | P3_FACE_SHIELD_APPLY |
| 3. Disposable Coveralls, like Tyvek | P3_TYVEK_APPLY |
| 4. Rubber boots | P3_BOOTS_APPLY |
| 5. Respirator with Cartridge | P3_RESP_APPLY |
| 6. Dust Mask | P3_DUST_MASK_APPLY |
| 7. Long-sleeved shirt | P3_LONG_SLEEVES_APPLY |
| 91. OTHER | P3_PPE_OTHER_APPLY |
| 98. REF | |
| 99. DK | |

New indicator variables were created to permit recoding of some of the “Other” responses. See Appendix A for a full list of all indicator variables associated with this question.

BOX Q5.38a: If “other” not listed, skip to Q5.39.

P3_OTHPPE_APPL

Q5.38a) [What (other) protective equipment did you normally wear (when you **applied** pesticides)?]
OTHER, SPECIFY: _____

P3_REPAIRAPPLEQ

Q5.39) (Since ^DSP.YearOfLastInterview), in general, on days when pesticides were applied, how often did you stop to readjust or repair your application equipment? Was it:

1. Never
2. Less than half the days
3. Half or more than half the days
4. Always
8. REF
9. DK

SECTION 6. HIGH PESTICIDE EXPOSURE EVENTS

P3_HIEXP

Q6.1) Since ^DSP.YearOfLastInterview, have you had any incidents or spills that resulted in an unusually high exposure to pesticides from contact with your skin, from breathing fumes, or dust, or from accidental ingestion?

- | | |
|--------|---------------------|
| 0. NO | (Skip to Section 7) |
| 1. YES | |
| 8. REF | (Skip to Section 7) |
| 9. DK | (Skip to Section 7) |

P3_HECHEM

Q6.2) Regarding the most recent incident, what was the name of the pesticide you were using?

- <Display list of reported pesticide names for this applicator>
- | | |
|---------------|----------------|
| 9999...8. REF | (Skip to Q6.3) |
| 9999...9. DK | (Skip to Q6.3) |

BOX Q6.2: If “other” not listed, skip to Q6.3.

P3_HECHEM_OS

Q6.2_OS) [Regarding the most recent incident, what was the name of the pesticide you were using?]
OTHER, SPECIFY: _____

P3_HECARE

Q6.3) Did this incident result in medical treatment or hospitalization?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

SECTION 7. NON-FARM OCCUPATION INFORMATION

P3_JOBOFF

Q7.1) Do you currently have a job other than working on a farm?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

(Skip to Section 8)

(Skip to Section 8)

(Skip to Section 8)

P3_JOBNAME

Q7.2) What is your current job other than farming?:

9999...8. REF

9999...9. DK

P3_JOBINDUSTRY

Q7.3) What type of business is this job in? (For example: Building/home construction, trucking, grain silo)

9999...8. REF

9999...9. DK

P3_JOBYSRS

Q7.4) For how many years have you had this job?

[ENTER 97 FOR LESS THAN 1 YEAR]

- __|__| [Range: 1 to 75]
- 97. LESS THAN ONE YEAR
- 98. REF
- 99. DK

P3_WHNWORK

Q7.5) Is this job year round or seasonal?

- 1. YEAR ROUND
- 2. SEASONAL
- 8. REF
- 9. DK

SECTION 8. EXPOSURES AND IMPORTANT CONFOUNDERS

P3_MARITAL

Q8.1) I am now going to ask you some questions about your health and lifestyle. What is your current marital status? Are you:

- 1. Single,
- 2. Married,
- 3. Living As Married,
- 4. Divorced or Separated, or
- 5. Widowed
- 91. OTHER
- 98. REF
- 99. DK

P3_WSPENROLYR

Q8.2) Our records show that you were living with ^DSP.Spouse_Fullname at the start of the study in ^DSP.Enrollment_Year, is this correct?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_YRTOGETHSTART

Q8.3) What was the first year you lived in the same residence?

YEAR: [Range: 1900 to 2020]

- 9997. NEVER LIVED TOGETHER
- 9998. REF
- 9999. DK

(Skip to Q8.4)

P3_YRTOGETHEND

Q8.3a) What was the last year you lived in the same residence?

YEAR: [Range: 1900 to 2020]

- 9997, STILL TOGETHER
- 9998. REF
- 9999. DK

P3_HGTFT

Q8.4) How tall are you? (FEET)

FEET [Range: 1 to 9]

- 98. REF
- 99. DK

P3_HGTIN

Q8.4a) [How tall are you?] (INCHES)

INCHES [Range: 0 to 11]

- 98. REF
- 99. DK

P3_WEIGHTNOW

Q8.5) How much do you weigh now?

POUNDS [Range: 1 to 996]

- 998. REF
- 999. DK

P3_SMOK100

Q8.6) Have you smoked a total of 100 cigarettes or more during your lifetime?

- 0. NO (Skip to Q8.14)
- 1. YES
- 8. REF (Skip to Q8.14)
- 9. DK (Skip to Q8.14)

P3_REGSMOK

Q8.7) Have you ever been a regular smoker, that is have you ever smoked at least 3 cigarettes/week for at least 6 months or more?

- 0. NO (Skip to Q8.14)
- 1. YES
- 8. REF (Skip to Q8.14)
- 9. DK (Skip to Q8.14)

P3_SMOKAGESTART

Q8.8) How old were you when you first started smoking cigarettes on a regular basis? By regular basis, I mean 3 cigarettes/week for 6 months or more.

____ AGE [Range: 1 to 85] (Skip to Q8.9)
998. REF
999. DK

P3_SMOKYRSTART

Q8.8a) What year did you begin smoking?

YEAR: ____ [Range: 1900 to 2020]
9998. REF
9999. DK

P3_SMOKFREQ

Q8.9) Do you currently smoke every day, some days or not at all?

- 1. EVERY DAY (Skip to Q8.11)
- 2. SOME DAYS (Skip to Q8.11)
- 3. NOT AT ALL
- 8. REF (Skip to Q8.11)
- 9. DK (Skip to Q8.11)

P3_SMOKAGESTOP

Q8.10) How old were you when you last smoked cigarettes on a regular basis? By regular basis, I mean 3 cigarettes/week for 6 months or more.

____ AGE [Range: 1 to 85] (Skip to Q8.10b)
998. REF
999. DK

P3_SMOKYRSTOP

Q8.10a) What year did you last smoke cigarettes on a regular basis? (IF DK AGE, PROBE FOR YEAR LAST SMOKED.) [IF NECESSARY SAY: By regular basis, I mean 3 cigarettes/week for 6 months or more.]

YEAR: ____ [Range: 1900 to 2020]
9998. REF
9999. DK

P3_REGSMOKFREQ

Q8.10b) When you used to regularly smoke, did you smoke every day or just on some days?

- 1. EVERY DAY
- 2. SOME DAYS
- 8. REF
- 9. DK

P3_SMOKNUM

Q8.11) Thinking about all the years that you smoked, about how many cigarettes or packs per day did you usually smoke on days when you smoked? Please tell me whether you are reporting the number of cigarettes per day or the number of packs per day. [IF NEEDED: One pack usually equals 20 cigarettes.]

____ [Range: 1 to 120]
998. REF (Skip to Q8.12)
999. DK (Skip to Q8.12)

P3_SMOKUNIT

Q8.11a) [Thinking about all the years that you smoked, about how many cigarettes or packs per day did you usually smoke on days when you smoked? Please tell me whether you are reporting the number of cigarettes per day or the number of packs per day. *[IF NEEDED: One pack usually equals 20 cigarettes.]*

UNIT:

- 1. CIGARETTES
- 2. PACKS

P3_PLUS1YRNOSMOK

Q8.12) Thinking about the years between age (AGE WHEN FIRST STARTED) to (AGE FROM Q8.10/now), was there ever a period of one year or longer during which you did not smoke cigarettes regularly?

- 0. NO (Skip to Q8.14)
- 1. YES
- 8. REF (Skip to Q8.14)
- 9. DK (Skip to Q8.14)

P3_NOSMOKNUM

Q8.13) During the years between (AGE WHEN FIRST STARTED) and (AGE FROM Q8.7/now), for how many total months or years, did you stop smoking cigarettes?

- [Range: 1 to 120]
- 998. REF (Skip to Q8.14)
- 999. DK (Skip to Q8.14)

P3_NOSMOKUNIT

Q8.13a) During the years between (AGE WHEN FIRST STARTED) and (AGE FROM Q8.7/now), for how many total months or years, did you stop smoking cigarettes?

- 1. MONTHS
- 2. YEARS

P3_ALCYN

Q8.14) Did you drink alcoholic beverages, including beer, wine, and liquor in the past 12 months?

- 0. NO (Skip to Q8.17)
- 1. YES
- 8. REF (Skip to Q8.17)
- 9. DK (Skip to Q8.17)

P3_ALCFREQ

Q8.14a) (In the past 12 months) how often did you drink alcoholic beverages? Would you say:

- 1. Daily,
- 2. Weekly,
- 3. Monthly (Skip to Q8.17)
- 4. Less Than Once a Month (Skip to Q8.17)
- 8. REF (Skip to Q8.17)
- 9. DK (Skip to Q8.17)

P3_DRINK_DURWK

Q8.15) During the week, on Monday through Thursday, how many servings, in total, of alcoholic beverages did you drink?

- [Range: 1 to 96]
- 98. REF
- 99. DK

P3_DRINK_WKEND

Q8.16) During the weekend, on Friday through Sunday, how many servings, in total, of alcoholic beverages did you drink?

__|__|

[Range: 1 to 96]

98. REF

99. DK

P3_HLTHSTATUS

Q8.17) Now I am going to ask you some questions about your health and your access to health care.

How would you describe your health in general? Would you say it is . . .

1. Excellent
2. Very Good
3. Good
4. Fair, or
5. Poor
8. REF
9. DK

P3_LASTDRVISIT

Q8.18) About how long has it been since you last saw or talked to a doctor or other health care professional about your health? Would you say . . .

1. Less Than 1 Year
2. 1-3 Years
3. More Than 3 Years, or
4. Never
8. REF
9. DK

P3_HADBONESCAN

Q8.19) Have you ever had a bone scan to measure bone density?

0. NO
1. YES
8. REF
9. DK

P3_HADCOLONCHK

Q8.20) Have you ever had your colon checked by having a colonoscopy or sigmoidoscopy exam? [In this exam a doctor inserts a long flexible lighted tube into your colon to look at it from the inside.]

0. NO
1. YES
8. REF
9. DK

SECTION 9. PHYSICAL ACTIVITY

P3_DAYS_VIG

Q9.1) The next few questions are about your physical activity. Please answer each question even if you do not consider yourself to be an active person. Please think about the activities you do during the day, including on the farm, at any jobs you might have, as part of your house or yard work, and in your spare time for recreation, exercise or sport.

During the past 12 months, on how many days per week did you do vigorous physical activities that take hard physical effort and make you breathe much harder than normal, like heavy lifting, digging, chopping or sawing wood by hand, tossing straw bales, swimming, aerobics, or jogging?

<input type="text"/>	[Range: 0 to 7]	(If 0, skip to Q9.3)
8. REF		(Skip to Q9.3)
9. DK		(Skip to Q9.3)

P3_TIME_VIG

Q9.2) How much time did you usually spend doing vigorous physical activities on one of those days?

<input type="text"/>	[Range: 0 to 1440]	(If 0, skip to Q9.3)
8. REF		(Skip to Q9.3)
9. DK		(Skip to Q9.3)

P3_TIME_VIG_UNIT

Q9.2a) [How much time did you usually spend doing vigorous physical activities on one of those days?]

1. HOURS
2. MINUTES

P3_DAYS_MOD

Q9.3) During the past 12 months, on how many days per week did you do moderate physical activities like fishing or hunting, driving a tractor or other farm equipment, carrying light loads, house work, or gardening? Do not include walking. (other examples: carpentry, painting, feeding farm animals.)

<input type="text"/>	[Range: 0 to 7]	(If 0, skip to Q9.5)
8. REF		(Skip to Q9.5)
9. DK		(Skip to Q9.5)

P3_TIME_MOD

Q9.4) How much time did you usually spend doing moderate physical activities on one of those days?

<input type="text"/>	[Range: 0 to 1440]	(If 0, skip to Q9.5)
8. REF		(Skip to Q9.5)
9. DK		(Skip to Q9.5)

P3_TIME_MOD_UNIT

Q9.4a) [How much time did you usually spend doing moderate physical activities on one of those days?]

1. HOURS
2. MINUTES

P3_DAYS_WALK

Q9.5) During the past 12 months, on how many days per week did you walk for at least 10 minutes at a time? This includes walking on the farm, at work and at home, walking to travel from place to place, and any other walking you might do solely for recreation, sport, exercise, or leisure.

<input type="text"/>	[Range: 0 to 7]	(If 0, skip to Q9.7)
8. REF		(Skip to Q9.7)
9. DK		(Skip to Q9.7)

P3_TIMEWALK

Q9.6) How much time did you usually spend walking on one of those days?

[Range: 0 to 1440]

(If 0, skip to Q9.7)

8. REF

(Skip to Q9.7)

9. DK

(Skip to Q9.7)

P3_TIMEWALKUNIT

Q9.6a) [How much time did you usually spend walking on one of those days?]

1. HOURS

2. MINUTES

P3_TIMESIT

Q9.7) During the past 12 months, how much time did you usually spend sitting on a typical weekday while at work, at home, and during leisure time? This may include time you spent sitting at a desk, reading, riding in a car, or watching television.

[Range: 0 to 1440]

(If 0, skip to Section 10)

8. REF

(Skip to Section 10)

9. DK

(Skip to Section 10)

P3_TIMESITUNIT

Q9.7a) [During the past 12 months, how much time did you usually spend sitting on a typical weekday while at work, at home, and during leisure time? This may include time your spent sitting at a desk, reading, or watching television?]

1. HOURS

2. MINUTES

SECTION 10. SUN EXPOSURE

P3_SUNEXPO_HRS_V2

Q10.1) Now I would like to ask you some questions about how you spend your time outdoors.

On average, from March to October, how many hours a day do you generally spend outside during daylight hours?

Would you say:

1. up to 1 hour,

2. 1-2 hours

3. 3-5 hours

4. 6-10 hours

5. more than 10 hours

8. REF

9. DK

P3_USEDEET

Q10.2) On days when you apply pesticides, do you usually use an insect repellent containing DEET?

0. NO

1. YES

2. DO NOT APPLY PESTICIDES

8. REF

9. DK

SECTION 11. OTHER AGRICULTURAL EXPOSURES

P3_CHILDFARMAN

Q11.1) As a child, how much time did you spend around farm animals (for example, cattle, pigs, or chickens)?
Would you say . . .

- 1. Never
- 2. Less than once a month
- 3. Monthly
- 4. Weekly, or
- 5. Daily
- 8. REF
- 9. DK

P3_CLNGRAINBINS

Q11.2) The next couple of questions may not apply to you, but in the past 12 months, how often did you clean grain bins? Would you say...

- 1. Never
- 2. Less than once a month
- 3. Monthly
- 4. Weekly, or
- 5. Daily
- 8. REF
- 9. DK

P3_NRMOLDYHAYSTRW

Q11.3) In the past 12 months, how often did you work with or around moldy hay or straw? Would you say...

- 1. Never
- 2. Less than once a month
- 3. Monthly
- 4. Weekly, or
- 5. Daily
- 8. REF
- 9. DK

SECTION 12. CARDIOVASCULAR CONDITIONS

These next questions are about medical conditions that you may have had. Please only report conditions that were diagnosed by a doctor or other health professional.

P3_HBP

Q12.1) Have you ever been diagnosed with **high blood pressure or hypertension**? *[IF FEMALE: Please do not count this condition if it occurred only during pregnancy.]*

- 0. NO (Skip to Q12.4)
- 1. YES
- 8. REF (Skip to Q12.4)
- 9. DK (Skip to Q12.4)

P3_HBP_AGE

Q12.2) How old were you when you were first diagnosed with high blood pressure or hypertension?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_HBP_MED

Q12.3) Do you currently take any prescribed medicines for this condition?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_ARRAYTH

Q12.4) [Have you ever been diagnosed with] an **irregular heartbeat** (or arrhythmia)?

- 0. NO (Skip to Q12.7)
- 1. YES
- 8. REF (Skip to Q12.7)
- 9. DK (Skip to Q12.7)

P3_ARRAYTH_AGE

Q12.5) How old were you when you were first diagnosed with an irregular heartbeat (or arrhythmia)?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_ARRAYTH_MED

Q12.6) Do you currently take any prescribed medicines for this condition?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_MI

Q12.7) [Have you ever been diagnosed with] a **heart attack** (or myocardial infarction)?

- 0. NO (Skip to Q12.9)
- 1. YES
- 8. REF (Skip to Q12.9)
- 9. DK (Skip to Q12.9)

P3_MI_AGE

Q12.8) How old were you when you were first diagnosed with a heart attack (or myocardial infarction)?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_STROKE

Q12.9) Have you ever had a **stroke**?

- 0. NO (Skip to Section 13)
- 1. YES
- 8. REF (Skip to Section 13)
- 9. DK (Skip to Section 13)

P3_STROKE_AGE

Q12.10) How old were you when you first had a stroke?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
- 999. DK

SECTION 13. RESPIRATORY CONDITIONS

P3_ASTHMA

Q13.1) Have you ever been diagnosed with **asthma**?

- 0. NO (Skip to Q13.6)
- 1. YES
- 8. REF (Skip to Q13.6)
- 9. DK (Skip to Q13.6)

P3_ASTHMA_AGE

Q13.2) How old were you when you were first diagnosed with asthma?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_ASTHMA_NOW

Q13.3) Do you still have asthma?

- 0. NO
- 1. YES (Skip to Q13.5)
- 8. REF (Skip to Q13.5)
- 9. DK (Skip to Q13.5)

P3_ASTHMA_ENDAGE

Q13.4) At what age did it stop?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_ASTHMA_MED

Q13.5) During the past 12 months, have you taken any medications for asthma including an inhaler?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_FARMLUNG

Q13.6) [Have you ever been diagnosed with] **Farmer's Lung**?

- 0. NO (Skip to Q13.10)
- 1. YES
- 8. REF (Skip to Q13.10)
- 9. DK (Skip to Q13.10)

P3_FARMLUNG_AGE

Q13.7) How old were you when you were first diagnosed with Farmer's Lung?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_FARMLUNG_REPEAT

Q13.8) Have you had Farmer's Lung more than once?

- 0. NO (Skip to Q13.10)
- 1. YES
- 8. REF (Skip to Q13.10)
- 9. DK (Skip to Q13.10)

P3_FARMLUNG_LASTAGE

Q13.9) How old were you when you last had Farmer's Lung?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_EMPHYSEMA

Q13.10) [Have you ever been diagnosed with] **emphysema**?

- 0. NO (Skip to Q13.12)
- 1. YES
- 8. REF (Skip to Q13.12)
- 9. DK (Skip to Q13.12)

P3_EMPHYSEMA_AGE

Q13.11) How old were you when you were first diagnosed with emphysema?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_CHRONBRONCHI

Q13.12) [Have you ever been diagnosed with] **chronic bronchitis**?

- 0. NO (Skip to Q13.14)
- 1. YES
- 8. REF (Skip to Q13.14)
- 9. DK (Skip to Q13.14)

P3_CHRONBRONCHI_AGE

Q13.13) How old were you when you were first diagnosed with chronic bronchitis?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_COPD

Q13.14) [Have you ever been diagnosed with] **chronic obstructive pulmonary disease (COPD)**?

- 1. YES
- 2. NO (Skip to Section 14)
- 8. REF (Skip to Section 14)
- 9. DK (Skip to Section 14)

P3_COPD_AGE

Q13.15) How old were you when you were first diagnosed with chronic obstructive pulmonary disease (COPD)?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

SECTION 14. DIABETES

P3_DIABETES

Q14.1) Have you ever been diagnosed with **diabetes or high blood sugar**, (IF FEMALE: other than when pregnant)?

- 0. NO (Skip to Section 15)
- 1. YES
- 8. REF (Skip to Section 15)
- 9. DK (Skip to Section 15)

P3_DIABETES_AGE

Q14.2) How old were you when you were first diagnosed with diabetes or high blood sugar?

- AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_DIABETES_MED

Q14.3) Do you currently take any prescribed medicines for this condition?

- 0. NO (Skip to Section 15)
- 1. YES
- 8. REF (Skip to Section 15)
- 9. DK (Skip to Section 15)

P3_INSULIN

Q14.4) Do you currently take insulin?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

SECTION 15. THYROID CONDITIONS

P3_THYROID

Q15.1) [Have you ever been diagnosed with] **thyroid disease or thyroid problems**?

- 0. NO (Skip to Section 16)
- 1. YES
- 8. REF (Skip to Section 16)
- 9. DK (Skip to Section 16)

P3_HYPERTHY

Q15.2) [Have you ever been diagnosed with] an **overactive thyroid (hyperthyroidism)**?

- 0. NO (Skip to Q15.6)
- 1. YES
- 8. REF (Skip to Q15.6)
- 9. DK (Skip to Q15.6)

P3_GRAVES

Q15.3) Was this **Graves' disease** or some other type of thyroid condition that caused the overactive thyroid gland?

- 1. GRAVES
- 2. OTHER THYROID CONDITION
- 8. REF
- 9. DK

P3_HYPERTHY_AGE

Q15.4) How old were you when you were first diagnosed with an overactive thyroid condition?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_HYPERTHY_MED

Q15.5) Do you currently take any prescribed medicines for this condition?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_HYPOTHY

Q15.6) [Have you ever been diagnosed with] an **underactive thyroid (hypothyroidism)**?

- 0. NO (Skip to Box 15.1)
- 1. YES
- 8. REF (Skip to Box 15.1)
- 9. DK (Skip to Box 15.1)

P3_HASHIMOTO

Q15.7) Was this **thyroiditis** (sometimes called Hashimoto’s thyroiditis) or was this some other type of thyroid condition that caused the underactive thyroid gland?

- 1. THYROIDITIS
- 2. OTHER THYROID CONDITION
- 8. REF
- 9. DK

P3_HYPOTHY_AGE

Q15.8) How old were you when you were first diagnosed with an underactive thyroid (hypothyroidism)?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_HYPOTHY_MED

Q15.9) Do you currently take any prescribed medicines for this condition?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

BOX 15.1: IF Q15.2 AND Q15.6 = DK/REF, SKIP TO Q15.10. ELSE, SKIP TO SECTION 16.

P3_THYPROB_AGE

Q15.10) How old were you when you were first diagnosed with thyroid disease or thyroid problems?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_THYPROB_MED

Q15.11) Do you currently take any prescribed medicines for this condition?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

SECTION 16. NEUROLOGICAL CONDITIONS

P3_PARKINSON

Q16.1) Have you ever been diagnosed with **Parkinson’s disease**?

- 0. NO (Skip to Q16.5)
- 1. YES
- 8. REF (Skip to Q16.5)
- 9. DK (Skip to Q16.5)

P3_PARKINSON_AGE

Q16.2) How old were you when you were first diagnosed with Parkinson’s disease?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_PARKINSON_MED

Q16.3) Do you currently take any prescribed medicines for this condition? For example, sinemet, atamet, L-dopa, Mirapex, pramipexole, requip, ropinirole, permax, or pergolide.

- 0. NO (Skip to Q16.5)
- 1. YES
- 8. REF (Skip to Q16.5)
- 9. DK (Skip to Q16.5)

P3_PARKINSON_MED_HELP

Q16.4) Did your symptoms improve after taking medication?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PARK_TREMOR

Q16.5) [Have you ever been diagnosed with] a **tremor** such as essential, benign or familial tremor? (IF Q16.1 = YES: Please do not include tremor due to Parkinson’s disease.)

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_ALS

Q16.6) [Have you ever been diagnosed with] **ALS (amyotrophic lateral sclerosis), motor neuron disease, or Lou Gehrig’s disease**?

- 0. NO (Skip to Q16.8)
- 1. YES
- 8. REF (Skip to Q16.8)
- 9. DK (Skip to Q16.8)

P3_ALS_AGE

Q16.7) How old were you when you were first diagnosed with ALS (amyotrophic lateral sclerosis), motor neuron disease, or Lou Gehrig’s disease?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_DEPRESSION

Q16.8) [Have you ever been diagnosed with] **depression**?

- 0. NO (Skip to Section 17)
- 1. YES
- 8. REF (Skip to Section 17)
- 9. DK (Skip to Section 17)

P3_DEPRESSION_AGE

Q16.9) How old were you when you were first diagnosed with depression?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_DEPRESSION_MED

Q16.10) Are you currently taking any prescribed medicines for depression?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

SECTION 17. ALLERGIC CONDITIONS

P3_HAYFEVER

Q17.1) Have you ever been diagnosed with **hayfever, seasonal allergies, or allergic rhinitis**?

- 0. NO (Skip to Section 18)
- 1. YES
- 8. REF (Skip to Section 18)
- 9. DK (Skip to Section 18)

P3_HAYFEVER_AGE

Q17.2) How old were you when you were first diagnosed with hayfever, seasonal allergies, or allergic rhinitis?

- ____ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_HAYFEVER_MED

Q17.3) In the past 12 months, have you taken any prescribed or over-the-counter medicines, including shots, for these allergies?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

SECTION 18. INFECTIOUS CONDITIONS

P3_SHINGLES

Q18.1) In this question, just think back to ^DSP.CurrYear-10, the year you had your N^{th} birthday. Since ^DSP.CurrYear-10, have you been diagnosed with **shingles**?

- 0. NO (Skip to Section 19)
- 1. YES
- 8. REF (Skip to Section 19)
- 9. DK (Skip to Section 19)

P3_LUPUS_SPECIALIST

Q19.8) Did you see a rheumatologist (a physician who specializes in bone, joint, and skin diseases) for this illness?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_SJOGREN

Q19.9) [Have you ever been diagnosed with] **Sjogren’s disease**?

- 0. NO (Skip to Section 20)
- 1. YES
- 8. REF (Skip to Section 20)
- 9. DK (Skip to Section 20)

P3_SJOGREN_AGE

Q19.10) How old were you when you were first diagnosed with Sjogren’s disease?

- ___|___|___ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_SJOGREN_SPECIALIST

Q19.11) Did you see a rheumatologist (a physician who specializes in bone, joint, and skin diseases) for this illness?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

SECTION 20. EYE AND EAR CONDITIONS

P3_MACULAR_DEG

Q20.1) Have you ever been diagnosed with **retinal or macular degeneration**?

- 0. NO (Skip to Q20.3)
- 1. YES
- 8. REF (Skip to Q20.3)
- 9. DK (Skip to Q20.3)

P3_MACULAR_DEG_AGE

Q20.2) How old were you when you were first diagnosed with retinal or macular degeneration?

- ___|___|___ AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_HEARING_AID

Q20.3) Have you ever been prescribed or fitted for a hearing aid?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

SECTION 21. HEAD INJURY

P3_INJURY_HEAD_KO

Q21.1) Have you ever had a head injury where you lost consciousness?

- 0. NO (Skip to Section 22)
- 1. YES
- 8. REF (Skip to Section 22)
- 9. DK (Skip to Section 22)

P3_INJURY_KO_AGE

Q21.2) How old were you the first time you lost consciousness from a head injury?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
 - 999. DK

SECTION 22. ARTHRITIS AND OSTEOPOROSIS

P3_OSTEOARTHRITIS

Q22.1) Have you ever been diagnosed with **osteoarthritis**, the most common type of arthritis?

- 0. NO (Skip to Q22.3)
- 1. YES
- 8. REF (Skip to Q22.3)
- 9. DK (Skip to Q22.3)

P3_OSTEOARTHRITIS_AGE

Q22.2) How old were you when you were first diagnosed with osteoarthritis?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
 - 999. DK

P3_RHEUMATOID

Q22.3) Have you ever been diagnosed specifically with **rheumatoid arthritis** (an autoimmune disease)?

- 0. NO (Skip to Q22.6)
- 1. YES
- 8. REF (Skip to Q22.6)
- 9. DK (Skip to Q22.6)

P3_RHEUMATOID_AGE

Q22.4) How old were you when you were first diagnosed with rheumatoid arthritis?

- __|__|__| AGE [Range: 1 to 120]
- 998. REF
 - 999. DK

P3_RHEUMATOID_MED

Q22.5) Do you currently take any prescribed or over-the-counter medicines for this condition?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_OSTEOPOROSIS

Q22.6) Have you ever been diagnosed with **osteoporosis, osteopenia, or low bone density**?

- 0. NO (Skip to Q22.9)
- 1. YES
- 8. REF (Skip to Q22.9)
- 9. DK (Skip to Q22.9)

P3_OSTEOPOROSIS_AGE

Q22.7) How old were you when you were first diagnosed with osteoporosis, osteopenia, or low bone density?

- ____ AGE [Range: 1 to 120]
998. REF
999. DK

P3_OSTEOPOROSIS_MED

Q22.8) Do you currently take any prescribed medicines for this condition? For example this might include medication such as Fosamax.

0. NO
1. YES
8. REF
9. DK

BOX 22.1: IF R <40 YEARS OF AGE, SKIP TO SECTION 23

P3_PLUS40_HIP

Q22.9) Since the age of 40, have you ever broken your hip?

0. NO
1. YES
8. REF
9. DK

P3_PLUS40_WRIST

Q22.10) Since the age of 40, have you ever broken your wrist?

0. NO
1. YES
8. REF
9. DK

SECTION 23. RESPIRATORY SYMPTOMS

Now I am going to ask you about respiratory symptoms that you may have experienced in the past year.

P3_COUGH_AM

Q23.1) Do you usually cough on waking up, or first thing in the morning?

0. NO
1. YES
8. REF
9. DK

P3_COUGH_PM

Q23.2) Do you usually cough during the rest of the day or at night?

0. NO
1. YES
8. REF
9. DK

BOX 23.1: IF Q23.1 OR Q23.2 = YES (1), ASK Q23.3 AND Q23.4. IF BOTH Q23.1 AND Q23.2 = NO (2), SKIP TO Q23.5

P3_PASTYRCOUGH_PLUS3MOS

Q23.3) During the past 12 months, have you had this cough on most days for three months or more?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_COUGH_YEARS

Q23.4) How many years have you had this cough?

- __|__| [Range: 1 to 96]
- 98. REF
 - 99. DK

P3_COUGHPHLEGM_AM

Q23.5) Do you usually bring up phlegm on waking up, or first thing in the morning? Don't count phlegm from your nose as a result of seasonal allergies or colds.

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_COUGHPHLEGM_PM

Q23.6) Do you usually bring up phlegm during the rest of the day or at night? Don't count phlegm from your nose as a result of seasonal allergies or colds.

- 0. NO
- 1. YES
- 8. REF
- 9. DK

BOX 23.2: IF Q23.5 OR Q23.6 = YES (1), ASK Q23.7 AND Q23.8. IF BOTH Q23.5 AND Q23.6 = NO (2), SKIP TO Q23.9

P3_PASTYRPHLEGM_PLUS3MOS

Q23.7) During the past 12 months, have you brought up phlegm on most days for three months or more?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PHLEGM_YEARS

Q23.8) How many years have you brought up phlegm regularly?

- __|__| [Range: 1 to 96]
- 98. REF
 - 99. DK

P3_PASTYRWHEEZ_V2

Q23.9) During the past 12 months, about how many days of wheezing or whistling in your chest have you had?

- 0. NONE (Skip to Q23.11)
- 1. 1-2
- 2. 3-6
- 3. 7-12
- 4. 13 OR MORE
- 5. VERSION 1 – 1 OR MORE TIMES, BUT SPECIFIC AMOUNT IS UNDETERMINED
- 7. NA (Skip to Q23.11)
- 8. REF (Skip to Q23.11)
- 9. DK (Skip to Q23.11)

P3_PASTYRWHEEZ_NOCOLD

Q23.10. During the past 12 months, have you had this wheezing or whistling in the chest when you did not have a cold?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_SHORTBREATH

Q23.11. Are you troubled by shortness of breath when hurrying on level ground or walking up a slight hill or up a flight of stairs?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PASTYRAWAKENED_SHBREATH

Q23.12. During the past 12 months, have you been awakened by shortness of breath, coughing, wheezing, or whistling in your chest?

- 0. NO (Skip to Q23.14)
- 1. YES
- 8. REF (Skip to Q23.14)
- 9. DK (Skip to Q23.14)

P3_AWAKENED_HOWOFT

Q23.13) During the past 12 months, how often have you been awakened in this manner? Would you say..

- 1. most days or nights
- 2. a few times a week
- 3. a few times a month
- 4. a few times in the past 12 months
- 5. once in the past 12 months
- 8. REF
- 9. DK

P3_PASTYR_INHALER

Q23.14) During the past 12 months, have you used an inhaler to help you breathe?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PASTYRTIMES_COLDFLU

Q23.15) How many times within the past 12 months have you had a cold or the flu?

- __|__| [Range: 1 to 52]
- 98. REF
- 99. DK

SECTION 24. NEUROLOGICAL SYMPTOMS

Now, I'd like to ask you about various conditions that you may have experienced in the past year.

P3_PARK_LEGS_SHAKE

Q24.1) During the past 12 months, have you experienced your arms and legs shaking?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PARK_HAND_SHAKE

Q24.2) Have you noticed your hands shaking or trembling, during the past 12 months?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PARK_BALANCE

Q24.3) Have you experienced difficulty with your balance, during the past 12 months?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PARK_WRITE

Q24.4) Is your handwriting smaller than it once was?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PARK_VOICE

Q24.5) Is your voice softer than it once was?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PARK_STEP

Q24.6) Do your feet shuffle when you walk?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PARK_SLOW

Q24.7) Do you move more slowly than other people your age?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

SECTION 25. PESTICIDE CONDITIONS

P3_PEST_POISON

Q25.1) Have you ever been diagnosed with pesticide poisoning?

- 0. NO (Skip to Section 26)
- 1. YES
- 8. REF (Skip to Section 26)
- 9. DK (Skip to Section 26)

P3_PEST_POISON_AGE

Q25.2) How old were you when you were first diagnosed with pesticide poisoning?

- AGE [Range: 1 to 120]
- 998. REF
- 999. DK

P3_PEST_POISON_HOWMANY

Q25.3) How many times have you been poisoned by pesticides?

- [Range: 1 to 60]
- 98. REF
- 99. DK

SECTION 26. FAMILY HISTORY OF DISEASE

Now I would like to ask you about diseases some of your family members may have experienced.

P3_FAMHADCA

Q26.1) Has your mother, father, sisters, brothers or children related to you by blood ever had cancer?

- 0. NO (Skip to Q26.3)
- 1. YES
- 8. REF (Skip to Q26.3)
- 9. DK (Skip to Q26.3)

Q26.2) What type(s) of cancer? [MARK ALL THAT APPLY.]

- 1. BRAIN P3_FAMCANCER_BRAIN
- 2. BREAST P3_FAMCANCER_BREAST
- 3. COLON OR RECTAL P3_FAMCANCER_COLONRECTAL
- 4. LEUKEMIA P3_FAMCANCER_LEUKEMIA
- 5. LYMPHOMA P3_FAMCANCER_LYMPHOMA
- 6. LUNG P3_FAMCANCER_LUNG
- 7. MELANOMA OF THE SKIN P3_FAMCANCER_MELANOMA
- 8. PANCREATIC P3_FAMCANCER_PANCREATIC
- 9. PROSTATE P3_FAMCANCER_PROSTATE
- 10. STOMACH P3_FAMCANCER_STOMACH
- 11. BLADDER P3_FAMCANCER_BLADDER
- 12. BONE P3_FAMCANCER_BONE
- 13. CERVICAL P3_FAMCANCER_CERVICAL
- 14. ESOPHAGUS P3_FAMCANCER_ESOPHAGUS
- 15. KIDNEY P3_FAMCANCER_KIDNEY
- 16. LIVER P3_FAMCANCER_LIVER
- 17. MULTIPLE MYELOMA P3_FAMCANCER_MULTIPLEMYELOMA
- 18. OVARIAN P3_FAMCANCER_OVARIAN
- 19. SKIN P3_FAMCANCER_SKIN
- 20. THYROID P3_FAMCANCER_THYROID
- 21. UTERINE P3_FAMCANCER_UTERINE
- 91. OTHER (SPECIFY)

New indicator variables were created to permit recoding of the “Other” responses. See Appendix A for a full list of all indicator variables associated with this question.

P3_FAMASTHMA

Q26.3) Has your mother, father, sisters, brothers or children related to you by blood ever been diagnosed with asthma?

- 1. YES
- 2. NO
- 8. REF
- 9. DK

BOX 26.1: MEN, SKIP TO SECTION 27. WOMEN, SKIP TO SECTION 28

SECTION 27. PROSTATE HEALTH CARE

P3_PSACHECKED

Q27.1) Within the past 5 years, have you had your PSA (prostate specific antigen) level checked? PSA is the blood test for prostate cancer.

- 0. NO (Skip to CloStat)
- 1. YES
- 8. REF (Skip to CloStat)
- 9. DK (Skip to CloStat)

P3_PSALEVEL

Q27.2) Was your PSA level, normal or above normal the last time it was tested?

- 1. NORMAL
- 2. ABOVE NORMAL
- 8. REF
- 9. DK

BOX 27.1: SKIP TO CloStat

SECTION 28. WOMEN’S REPRODUCTIVE HEALTH

P3_LASTMAMMOGRAM

Q28.1) The following questions are about mammograms, your menstrual cycles and reproductive health.

When did you have your last mammogram? [ENTER 9997 FOR NEVER HAD]

- YEAR: [Range: 1900 to 2020]
- 9997. NEVER HAD (Skip to Q28.2)
 - 9998. REF (Skip to Q28.2)
 - 9999. DK (Skip to Q28.2)

P3_NEVERHAD

Q28.1a) What was your age at the time of your last mammogram?

- [ENTER 97 FOR NEVER HAD]
- AGE [Range: 10 to 120]
- 997. NEVER HAD
 - 998. REF
 - 999. DK

BOX Q28.2: If R known to have gone through menopause, skip to Q28.7, if R ≤ 55, skip to Q28.13.

P3_PREGNANT_TIMES

Q28.2) How many times in your lifetime have you been pregnant? Please include live births and any pregnancies ending in a loss or abortion.

- [Range: 1 to 40]
- 0. NEVER
- 98. REF
- 99. DK

BOX 28.1: IF Q28.2 = 0, SKIP TO Q28.4

P3_LIVE_BIRTHS

Q28.3) How many children (live births) have you given birth to?

- [Range: 1 to 30]
- 0. NONE
- 98. REF
- 99. DK

P3_MENSTPERIODS

Q28.4) Do you still have menstrual periods?

- 0. NO
- 1. YES (Skip to Q28.7)
- 8. REF (Skip to Q28.7)
- 9. DK (Skip to Q28.7)

P3_LMPAGE

Q28.4a) How old were you when you had your last menstrual period?

- [Range: 10 to 96]
- 98. REF
- 99. DK

P3_MENO_STOP

Q28.5) Did your periods stop because of ...

- 1. natural menopause (Skip to Q28.7)
- 2. surgery (a hysterectomy or removal of both your ovaries) (Skip to Q28.6)
- 3. chemotherapy or radiation therapy (Skip to Q28.7)
- 4. other medication, treatment, illness *
- 5. perimenopause/birth control/ hormone replacement therapy (HRT) *
- 6. no menses *
- 91. OTHER, SPECIFY
- 8. REF (Skip to Q28.7)
- 9. DK (Skip to Q28.7)

* Response values 4 through 6 were added during data editing to categorize the responses recorded in question Q28.5a.

P3_MENOOTHSP

Q28.5) Other Meno reason:

OTHER, SPECIFY: _____ (Skip to Q28.7)

P3_OVREMOVED

Q28.6) Did you have both your ovaries removed?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_HRT

Q28.7) Have you ever taken Premarin, estrogen, or other hormone replacement therapy, like Provera? Include pills, patches and shots.

- 0. NO (Skip to Q28.10)
- 1. YES
- 8. REF (Skip to Q28.10)
- 9. DK (Skip to Q28.10)

P3_HRT_AGE

Q28.8) How old were you when you first used hormone replacement therapy?

- AGE [Range: 10 to 120]
- 998. REF
- 999. DK

P3_HRT_YRS

Q28.9) How many years altogether have you taken hormone replacement therapy? Not counting the years that you stopped.

[ENTER 97 FOR LESS THAN 1 YEAR]

- [Range: 1 to 96]
- 97. LESS THAN ONE YEAR
- 98. REF
- 99. DK

P3_RALOXTAMOX

Q28.10) Have you ever taken raloxifene or tamoxifen?

- 0. NO (Skip to CloStat)
- 1. YES
- 8. REF (Skip to CloStat)
- 9. DK (Skip to CloStat)

P3_RALOXTAMOX_AGE

Q28.11) How old were you when you first took it?

- AGE [Range: 10 to 120]
- 998. REF
- 999. DK

P3_RALOXTAMOX_NUM

Q28.12) How many months or years all together have you taken raloxifene or tamoxifen?

- [Range: 1 to 96]
- 98. REF (Skip to Box 28.2)
- 99. DK (Skip to Box 28.2)

P3_RALOXTAMOX_UNIT

Q28.12a) [How many months or years all together have you taken raloxifene or tamoxifen?]

- 1. MONTHS
- 2. YEARS

BOX 28.2: SKIP TO CloStat FOR WOMEN KNOWN TO HAVE GONE THROUGH MENOPAUSE

P3_PREGNANT_TIMES

Q28.13) How many times in your lifetime have you been pregnant? Please include a current pregnancy, live births and any pregnancies ending in a loss or abortion.

- [Range: 1 to 40]
- 0. NEVER
- 98. REF
- 99. DK

BOX 28.3: IF Q28.13=0, SKIP TO Q28.17

P3_LIVE_BIRTHS

Q28.14) How many children -live births - have you given birth to?

__|__| [Range: 1 to 30]

- 0. NONE
- 98. REF
- 99. DK

BOX 28.4: IF Q28.14=0, SKIP TO Q28.17

P3_BABYSINCEJAN1

Q28.15) Have you given birth to a baby since January 1st, ^DSPYearOfLastInterview?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_PREGNANT_NOW

Q28.16) Are you currently pregnant or breastfeeding?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_LMP_12MOS

Q28.17) Have you had a menstrual period in the past 12 months?

- 0. NO
- 1. YES (Skip to Q28.21)
- 8. REF (Skip to Q28.21)
- 9. DK (Skip to Q28.21)

P3_LMPAGE

Q28.18) How old were you when you had your last menstrual period?

__|__| [Range: 10 to 96]

- 98. REF
- 99. DK

P3_MENO_REASON

Q28.19) Did your periods stop because of ...

- 1. natural menopause (Skip to Q28.21)
- 2. surgery (a hysterectomy or removal of both your ovaries) (Skip to Q28.20)
- 3. chemotherapy or radiation therapy (Skip to Q28.21)
- 4. other medication, treatment, illness *
- 5. perimenopause/birth control/hormone replacement therapy (HRT) *
- 6. no menses *
- 91. OTHER, SPECIFY
- 8. REF (Skip to Q28.21)
- 9. DK (Skip to Q28.21)

* Response values 4 through 6 were added during data editing to categorize the responses recorded in question Q28.19a.

P3_OTHREASON

Q28.19a) [Did your periods stop because of]...

OTHER, SPECIFY: _____

(Skip to Q28.21)

P3_OVREMOVED

Q28.20) Did you have both your ovaries removed?

- 0. NO
- 1. YES
- 8. REF
- 9. DK

P3_HRT

Q28.21) Have you ever taken Premarin, estrogen, or other hormone replacement therapy, like Provera? Include pills, patches and shots.

- 0. NO (Skip to Q28.24)
- 1. YES
- 8. REF (Skip to Q28.24)
- 9. DK (Skip to Q28.24)

P3_HRT_AGE

Q28.22) How old were you when you first used hormone replacement therapy?

- ____ AGE [Range: 10 to 120]
- 998. REF
- 999. DK

P3_HRT_YRS

Q28.23) How many years altogether have you taken hormone replacement therapy? Do not include times when you stopped.

- ____ [Range: 1 to 96]
- 97. LESS THAN ONE YEAR
- 98. REF
- 99. DK

P3_RALOXTAMOX

Q28.24) Have you ever taken raloxifene or tamoxifen?

- 0. NO (Skip to Q28.27)
- 1. YES
- 8. REF (Skip to Q28.27)
- 9. DK (Skip to Q28.27)

P3_RALOXTAMOX_AGE

Q28.25) At what age did you first use raloxifene or tamoxifen?

- ____ AGE [Range: 10 to 120]
- 998. REF
- 999. DK

P3_RALOXTAMOX_NUM

Q28.26) How many months or years all together have you taken raloxifene or tamoxifen?

- ____ [Range: 1 to 96]
- 98. REF (Skip to Q28.27)
- 99. DK (Skip to Q28.27)

P3_RALOXTAMOX_UNIT

Q28.26a) [How many months or years all together have you taken raloxifene or tamoxifen?]

- 1. MONTHS
- 2. YEARS
- 8. REF
- 9. DK

P3_BC_PILLS

Q28.27) Have you ever taken birth control pills for any reason?

- 0. NO (Skip to CloStat)
- 1. YES
- 8. REF (Skip to CloStat)
- 9. DK (Skip to CloStat)

P3_BC_PILLS_AGE

Q28.28) How old were you when you first took birth control pills?

- __|__|__| AGE [Range: 10 to 120]
- 998. REF
- 999. DK

P3_BC_PILLS_YRS

Q28.29) Not counting the times when you stopped, how many years altogether did you take birth control pills?

- __|__| [Range: 1 to 96]
- 97. LESS THAN ONE YEAR
- 98. REF
- 99. DK

Section CLO

CloStat) This concludes the interview. We appreciate your continued participation in the Agricultural Health Study. Thank you for taking the time to talk with me today.

- 1. CONTINUE (Skip to IntroEND)

IntroEnd1) Okay, then, thank you very much.

- 1. CONTINUE (Skip to IntroEND)

IntroEnd2) 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.

- 1. CONTINUE

IntroEND) HANG UP
END OF INTERVIEW