APPENDIX I

Privacy Act of 1974 - Comments

Field Operations Manual NIOSH Contract No. 210-76-0175

APPENDIX I Privacy Act of 1974 - Comments

The study we have performed as a non-government organization under contract with a Federal agency adhered to the Privacy Act of 1974, which requires that the government: 1) maintain no secret files on individuals; 2) inform people at the time it is collecting information about them why this information is needed, and how it will be used; 3) assure that personal information is used only for the reasons given, or seek the person's permission when another purpose for its use is considered necessary or desirable; 4) allow people to see the records kept on them; and 5) provide people with the opportunity to correct inaccuracies in their records.

In this study all completed forms, computer output, back up tapes and related documents will be maintained in locked cabinets on secure premises. All subjects will be assigned a study number upon signature of the informed consent. Only in a single file will the subject's name, social security number and study number be present in an unscrambled form. In most files only the subject number will be used. In those cases where the subject's identification is needed for specific tests such as the subject's physical exam record, code work scrambled identifiers will be used. In certain processers these scrambled words are replaced by asterisks upon printing, unless a decoding command is used. Access to codes will be restricted to the data manager.

APPENDIX I
Privacy Act of 1974 - Comments

ALOSH will receive one sealed copy of the list of subjects by name, social security number and study number. All samples will be transferred by subject number and sample number with a sample number list identifying the source and details pertinent to that sample. At study completion, ALOSH will specify in writing which subject records are to have identifying data purged prior to transfer.

All subjects, prior to signing the consent form, were informed of their rights under the Privacy Act and that the Medical Ethics Code applied to all their medical information to protect their privacy. Medical information was released to the individual or with his written consent to his physician.

APPENDIX II

Research Participants' Document

Field Operations Manual NIOSH Contract No. 210-76-0175

OMB No. <u>68-\$77027</u> Exp. 7-79

NIOSH/UNIVERSITY OF WISCONSIN HUMAN SUBJECTS RESEARCH PARTICIPANT DOCUMENT

I. PROJECT DESCRIPTION

- 1. Project Title and Mumber: Disease Prevalence & Health Hazards of Grain Handlers; NIOSH Project VKCR21132.
- 2. Sponsor and/or contractor: Wational Institute for Occupational Safety and Health, Morgantown, West Virginia 26505 and University of Wisconsin, Madison, Wisconsin 53706.

3. Purpose and Benefits:

This study will be divided into two parts: Part A -Determination of General Health Status and Biological Response to the
Working Environment; and Part B -- Determination of Response to
Specific Environmental Agents. The participant may limit his
willingness to cooperate to either Part A or Part B or he may elect
to participate in both of these studies.

<u>Part A:</u> Determination of General Health Status and Biological Response to the Working Environment

This study is designed to define the presence and extent of health hazards associated with occupational exposure to grain dusts. However, in order to determine the uniqueness of the effect of the exposure to grain dust it is necessary to evaluate what the health status is of other working people not exposed to grain dust. Therefore, to participate in this study you do not necessarily have to be associated with the grain industry.

During the course of the study, our examinations may identify diseases or conditions (which may or may not be related to grain handlers) which should have further medical attention or treatment. With your permission, we will notify you and your private physician of such findings so that they can be taken care of. This is one way in which you may personally benefit from the tests. In addition, all workers may benefit from the study if it is found that present precautions against occupational disease are inadequate, and that improved preventive measures should be taken.

Part B: Determination of Response to Specific Environmental Agents

This study is designed to identify the agent that may cause a lung reaction to grain dust in sensitive individuals. Grain dust contains not only grain particles but also particles of insects and molds to which some people may react. If the agent causing your problem can then be recognized, steps can be taken to prevent or reduce its effects on your health. However, in order to determine if only sensitive individuals will react, it is also necessary to do this study on people who have not shown reaction to grain dust. In this case the participant will not derive any direct benefit from the study.

II. CONSENT TO PARTICIPATE

ı,							, ag	;e		, h	ereby	volu	ntarily
agree	to	cooperate	in	the	above	named	study	and	to	undergo	the	tests	listed
in Att	ach	ment A as	fol	Lows:	:								

(Indicate your willingness to cooperate in either Part A or Part B or both studies by writing "YES" or "NO" in the space provided.)

<u>Part</u>	<u>A</u> :	
Part	B:	

The studies have been discussed with me and I have been given a copy of the document. I understand that:

- 1. The procedures and tests to be followed are as stated in <u>Attachment A</u> with those procedures which are experimental so identified.
- 2. Attendant discomforts and risks are as noted in Attachment A and, except as noted, are minimal and provision has been made for any necessary medical care, and I have been told what to do if I have any reaction.
- 3. Benefits are as indicated in the Purpose and Benefits section in Part I.
- 4. If alternative procedures advantageous to me are available, they are specified in Attachment A; and if they become available during the project, the procedure most advantageous for me will be indicated and used or an explanation will be given to me as to use of any other procedure.
- 5. My inquiries will be answered by the examining personnel, by the Project Director, Dr. John Rankin, University of Wisconsin, Department of Preventive Medicine, Rm. 101, 504 N. Walnut Street, Madison, Wisconsin 53706, (608-263-2881); or by the Project Officer, Dr. Pervis C. Major, NIOSH, 944 Chestnut Ridge Road, Morgantown, West Virginia 26505 (304-291-4256).
- 6. I am free to terminate my consent and to discontinue participation in the project at any time without prejudice to myself.
- 7. My identity and my relationship to any information (1) disclosed by me in completing any project questionnaire, and (2) reported by me or derived from me during my participation in the above named project shall be kept confidential and will not be disclosed to others without my written consent except as required by law and except that such information will be used for statistical and research purposes in such a manner that no individual can be identified. I understand that if any information is found out concerning me that can endanger the health and safety of others, this information will be given to the proper authority.
- If any of my medical records are required for purposes of this project, a separate written consent for release of the records will be requested from me.
- 9. There will be questions that I will be asked to answer, and my inquiries concerning the questions will be answered by the examining personnel, by Dr. John Rankin (608-263-2881), or by Dr. Pervis Major (304-291-4256).

	<pre>project officer or his designat designated physician(s) upon comp appropriate.</pre>					
	SIGNATURE(Subject)		DATE			
	(Subject)					
	SIGNATURE(Parent or Guardi		DATE	 -		
	(Parent or Guardi	an)				
11.	INVESTIGATOR (Name, title and					
	(Name, title and	signature)				
REQU I Dire	JEST AND AUTHORIZATION FOR RELEASE OF	INFORMATION by request ians whose	N and autho names and	addre	esses	I h
REQU I Dire ente cond give	, here ector to inform the following physic ered below of any significant fi cerning me. (Do not leave blank. e a name and address.)	INFORMATION by request ians whose ndings from Write "NO"	and autho names and n the ab where you	addre ove i i do	esses named not w	I h st rish
REQU I Dire ente cond give	, here ector to inform the following physic ered below of any significant fi cerning me. (Do not leave blank. e a name and address.) Hy personal physician(s): Dr	INFORMATION by request ians whose ndings from Write "NO"	and autho names and n the ab where you	addre	esses named not w	I h st rish
REQU I Dire ente cond give	, here ector to inform the following physic ered below of any significant fi cerning me. (Do not leave blank. e a name and address.)	INFORMATION by request ians whose ndings from Write "NO"	and autho names and m the ab where you	addre	esses named not w	I h
REQU I Dire ente cond give	, here ector to inform the following physic ered below of any significant ficerning me. (Do not leave blank. e a name and address.) My personal physician(s): Dr Street: City:	INFORMATION by request ians whose .ndings from Write "NO"	and autho names and n the ab where you	addre	esses named not w	I he strish
I Directs conc give	, here ector to inform the following physic ered below of any significant fi cerning me. (Do not leave blank. e a name and address.) My personal physician(s): Dr Street: City:	INFORMATION by request ians whose .ndings from Write "NO"	and autho names and n the ab where you	addre	esses named not w	I ha
I Directs conc give	, here ector to inform the following physic ered below of any significant ficerning me. (Do not leave blank. e a name and address.) My personal physician(s): Dr Street: City: Other physician: Dr	INFORMATION by request ians whose ndings from Write "NO"	and autho names and n the ab where you	addre	esses named not w	I ha

IV. The "Medical Health Surveillance of Grain Handlers" questionnaire is required under Part A of this study and it will constitute this Part IV as a separate attachment to be retained by the Project Director. A copy of the questionnaire is not retained by the participant.

OMB No. <u>68-S77027</u> Exp. 7-79

ATTACHMENT A

- A. Project Title and Number: Disease Prevalence & Health Hazards of Grain Handlers; NIOSH Project VKCR21132.
- B. Procedures and tests which involve human subjects in conduct of this project are as follows:

The examination will be divided into two parts: Part A -- Determination of General Health Status and Biological Response to the Working Environment; and Part B --Determination of Response to Specific Environmental Agents. The participant may limit his willingness to cooperate to either Part A or Part B or he may elect to participate in both of these studies.

PART A:

The procedures and tests that you will be asked to do are part of a physical examination which consists of: (1) Filling out a questionnaire which contains a series of questions which will be reviewed with you later by a trained interviewer. These questions will be about your work history, your use of tobacco, possible health problems, and your family history; (2) your height and weight will be measured and recorded; (3) x-rays of your chest will be made; (4) breathing tests will be made to determine if there is any increased resistance in your air passages; (5) blood and urine will be collected and analyzed; and (6) allergic skin tests will be done with common allergy testing agents (e.g., ragweed) and with specific agents related to the grain industry (e.g., wheat). Reactions to skin tests look like a hive and may give some local discomfort and itching. None of these tests is experimental, all are widely used during medical examinations and usually cause no discomfort to the health of participants.

Occasionally, the breathing tests may cause some temporary chest discomfort and coughing. Some pain, as you may feel with a pin prick, may be associated with the blood collection and skin tests.

One tube (20 ml) of blood will be drawn from an arm vein before and after a work shift. The blood will be analyzed for white cell counts, globulins, complement, enzymes, creatinine and precipitins against common molds and grains. A sample of your blood will be frozen and transferred to the National Institute for Occupational Safety and Health (NIOSH), Morgantown, West Virginia, where they may elect to perform additional blood tests or repeat those performed in this study.

Urine will be collected and analyzed for protein, sugar, and blood.

There will be no direct costs to you for these tests.

Qualified professional personnel and proper medical supplies will be available to treat any unforeseen reaction such as fainting. There are no alternative procedures to those noted above which will permit you to participate in the study. You may, of course, refuse to take any of them without incurring any penalty.

PART B:

This part of the study will be done in a hospital. Each individual will

be exposed to a spray-mist of a solution made from substances obtained from either grain, mite, or insects and/or molds to which he has shown to be allergic in the skin test. He will be tested before, immediately after the exposure, and at regular intervals over a 24-hour period.

The tests will include the assessment of symptoms, temperature, white blood count, and standard breathing.

The individual may develop fever, cough, wheezing and/or shortness of breath which may be rapidly improved by available standard medication. Some temporary chest discomfort and coughing may come with the breathing tests and some pain, as a pin prick, may be associated with the collection of the blood sample.

Although the tests used to evaluate the effects of the exposure are not experimental, the exposure to the material is experimental. However, to assure that no untoward reactions will occur, only those individuals who are commonly exposed to these materials at work and who have shown they have reacted to them (as indicated by the positive skin tests to these materials) will be selected as the test population. Only those individuals who are non-reactive (as indicated by negative skin tests to these materials) will be selected as controls.

C. Rights Under the Privacy Act of 1974 Title 5 United States Code, Section 552 (a) (e) (3).

The information required to be given to me under the Privacy Act of 1974 is as follows:

- (1) Authority for collecting information is the Occupational Safety and Health Act 1970, Section 20 (29 USC 669).
- (2) The principal purpose or purposes for which the requested information is intended to be used is for accurate assessment of the participants' general and occupational health status and is being solicited for specific epidemiological analysis and/or as stated in Section I, Item 3.
- (3) The anticipated routine use which may be made of the solicited information is in developing criteria and programs for a safe and healthful place of employment or as published in the Federal Register, Vol. 41, No. 240, \$0146.00, pp. 54223-54225, Monday, December 13, 1976.
- (4) I do not have to furnish any information I do not wish to. Nothing happens to me as a result of my not providing information, whether all or in part of that requested, except that I may be terminated for the project.

APPENDIX III

Coding Date: Hazard/Site/Occupation

Field Operations Manual WIOSH Contract No. 210-76-0175

[Deleted by NIOSH]

APPENDIX IV

Questionnaire: Grain Handlers

Field Operations Manual NIOSH Contract No. 210-76-0175

EXPLANATION:

Questions 46 and 47 in the grain handlers' questionnaire were independently verified by clinically experienced physicians. This verification was facilitated through the use of a <u>work sheet</u> (see Appendix V), citing two headings (questions 46 and 47) which differ only in form and not substance from questions 46 and 47 as originally presented. It is important to note that the form adopted on the physician's <u>work sheet</u> is the form reported in the questionnaire analysis appendix.

2. No

ID #	
------	--

ALL THE INFORMATION OBTAINED FROM THIS STUDY WILL BE KEPT CONFIDENTIAL.

Please answer the questions by circling the number of the best answer or by filling in a blank with a number or word. If uncertain or in doubt, circle No.

EXAMPLE: Do you live or work on a farm? 1. Yes

If you desire help in answering a question, please put a () in front of the question number. You will be helped with these questions by a member of our personnel.

1.	Name	(Last)	(First)	(HI)	3. Phone Number 4. Social Security # AREA CODE () *(optional, see below)
2.	rural		(Number, str y or town, o		5a. Birthdate 5b. Age (last birthday) (mo, day, year) 6. Sex 1. / Male 2. / Female
					 7. Ethnic Group or Ancestry 1. / White, not of Hispanic Origin 2. / / Black, not of Hispanic Origin
					3. / / Hispanic
					4. / / American Indian or Alaskan Native 5. / / Asian or Pacific Islander
8.	Marita	l Status / Married	3. / /]	Divorced	6. / / Other:
	2. /	/ Widowed		/ / with shoes / / with clothing/ street shoes	
10. What was the highest grade of regular school you completed?					/ / with boots / / with clothing/ safety shoes
	<u>-</u>	<u> </u>			/ / bare feet / / in underwear
		example: a school is	completion	of	11. Do you live or work on a farm?

^{*(}Furnishing your Social Security number is voluntary. Your refusal to provide this number will not affect any right, benefit, or privilege to which you would be entitled if you did provide your Social Security number. Your Social Security number is being requested since it will permit use in future determinations in statistical research studies.)

ID#	

12. List all jobs, occupations or type of work you have held or done through life and state approximate dates and lengths of time.

Company	<u> </u>			Length of		Average no.	Location
or Industry	Job Classification	Code	Type of Work of Task	Time in Years	Years From To		Wame of City or Rural
1.					19 19	9	
2.			_		19 19		
3.					19 19		
4.			 		1919		
5.				 -	19 19		
6.					19 19_		
7.				<u></u>	19 19		
8.					19 19_		·

					Page	199
		II	#_			
(CHECK	APPROPRIATE ANSWER AFTER EACH QUESTION. WHEN IN	DOUI	BT,	Answe	R NO.)	
COUGH	AND PHLEGM:					
	oo you usually cough first thing in the norning? (Exclude clearing throat)	1.	Yes	2.	No	
	o you usually <u>cough</u> at other times uring the day or night?	1.	Yes	2.	No	
	o you cough as much as 4-6 times a day or 4 or more days out of the week?	1.	Yes	2.	No	
I	F YES TO EITHER 13a, b OR c, ANSWER d AND e:					
	o you <u>cough</u> on most days for as much as 3 months of the year?	1.	Yes	2.	No	(x)
e. F	or how many years have you had this cough?			Year	:s	(x)
<u>c</u> f	oo you usually bring up phlegm from the thest first thing in the morning? (Not from the back of your nose. Count wallowed phlegm from the chest.)	1.	Yes	2.	No	
	o you usually bring up <u>phlegm from the chest</u> it other times during the day or night?	1.	Yes	2.	No	
	o you bring up phlegm like this as much as wice a day, 4 or more days out of the week?	1.	Yes	2.	No	
1	F YES TO EITHER 14a, b OR c, ANSWER d AND e:					
o	oo you bring up phlegm from the chest on most days for as much as 3 months of the year?	1.	Yes	2.	No	(x)
	for how many years have you raised phlegm from the chest?			<u></u>	Years	(x)
TE VOU	I NEVER HAD COUCH OF BUILDOM CO TO 0 21					

a. On workdays

b. On weekends

c. I notice no difference

a. Better

c. Worse

b. The same

when not working

(x)

(x)

15. When is your cough worse?

or not working?

16. Is your cough and/or phlegm better,

the same or worse when on vacation

												ID	# _			
17a.			coug erent					e				1.	Yes		No Go to	(x) Q 18
	_IF	YES	TO 17	a, CI	RCLE	THE M	ONTHS	IN F	/HICH	YOU H	IAVE 1	BEEI	MO I	ST T	ROUBL	ED
	ъ.	Jan 1	Feb 2	Mar 3	_	May 4		Jul 7						Dec 12		(x)
18.			coug						on				•			(xy)
	a.	Grai	in đus	t at	work?							1.	Yes	2.	No	(x)
	ъ.	Othe	er dus	ts at	work	: ?					-	1.	Yes	2.	No	
	c.	Gas	es or	fumes	at w	ork?						1.	Yes	2.	No	
	đ.	Hous	se d us	t or	fumes	in t	he ho	me?				1.	Yes	2.	No	
	e.	Barr	ı d ust	s, si	lage	or ha	y?					1.	Yes	2.	No	
	f.	Weat	ther c	hange	s?							1.	Yes	2.	No	
	Б.	Oth	er									1.	Yes	2.	No	
	Ŧ₽	VPC	TO GE	PATN F	niis t 4	T WAT	2 4. V	icupp	0 19				_	ecif	_	
			vise,				ux, au	15MCK	Q IS	•						
19.	to	bri	r opin ng on ircle	cough	and/	or pl	legm,									(x)
	b. c. d. e.	Spr. Rye	s ley				i. 5 j. 1 k. 1	Linse	ed ower:							
									(Spe	cify)						
20.	(o	n th	ou are e aver egm du	age)	have	you e										(x)
							b. (c. (d. (e. (Only : Only : Only :	a few a few a few	least time: time: time:	s ead s ead s ead	h w h m h y	eek ontl	n.		

		ID #
WHEE	ZING AND/OR CHEST TIGHTNESS:	
21a.	Have you ever noticed any wheezing and/or tightness in your chest?	1. Yes 2. No (x)
	IF YES TO 21a, ANSWER b AND c:	Go to Q 37
b.	Do you get this only with colds?	1. Yes 2. No (x)
e. 	Do you get this even when you don't have a cold?	1. Yes 2. No (x)
	OU HAVE NEVER NOTICED WHEEZING AND/ UGH 36 AND GO TO Q 37.	OR TIGHTNESS IN YOUR CHEST, SKIP Q 22
22.	Which of these symptoms have you experienced: wheezing, chest tightness or both?	a. Only wheezing (x) b. Only chest tightness c. Mainly wheezing d. Mainly chest tightness e. Both wheezing and chest tightness
23.	At what age did your wheezing and/or chest tightness first occur?	Years (x)
24.	At what age did wheezing and/or chest tightness last occur?	Years (x) (If you are still having these, put your present age.)
25.	Do you have wheezing and/or chest tightness at work while you are performing your job?	1. Yes 2. No Go to Q 28
26.	When you are working regularly, how frequently (on the average) have you experienced wheezing and/or chest tightness during work?	 a. Usually at least once a day. b. Only a few times each week. c. Only a few times each month. d. Only a few times each year. e. Only a few times ever. f. Only once.
27.	Is your wheezing and/or chest tightness usually worse on:	 a. First day back at work. b. Any day(s) at work. c. Weekends, when not working. d. Makes no difference

		ID #	
28.	Is your wheezing and/or chest tight brought on by or made worse by expoto:		(xy)
	a. Grain dust at work?	1. Yes 2. Wo	(x)
	b. Other dusts at work?	1. Yes 2. Wo	
	c. Gases or fumes at work?	1. Yes 2. Wo	
	d. House dust or fumes in the home?	1. Yes 2. Wo	
	e. Barn dusts, silage or hay?	1. Yes 2. Wo	(x)
	f. Holdy or musty barn dusts, silage or hay?	1. Yes 2. No	
	g. Contacts with animals?	1. Yes 2. Wo	
	h. Plants, pollens or weeds?	1. Yes 2. Wo	
	i. Weather changes?	1. Yes 2. Wo	
	j. Other exposures	1. Yes 2. Wo	
 29.	IF YES TO GRAIN DUST AT WORK, ANSWER (Otherwise, Go to Q 33a.) In your opinion, which grain dusts bring on wheezing and/or chest tight worse? (May circle more than one.)	are most likely to htness or make it	(x)
	a. Durum wheat b. Spring wheat c. Rye d. Oats e. Barley f. Corn	g. Soybean h. Linseed i. Sunflower seed j. Beets k. Malt 1. Other (Specify)	
30.	When is your wheezing and/or chest tightness most likely to start or get worse? (Circle only one)	a. Before workb. During workc. After workd. Either during or after work	(x)
31.	If it starts or gets worse during work, how soon after the beginning of the work shift does not happen?	a. Right away OR bhours after	(x)
32.	If it starts or gets worse after work, how many hours after work does this happen?	hours after	

					ID	#		
33a.	Does wheezing and/or chest tightness ever wake you up from your sleep?	5			1. Yes	2. N	'o	(x)
	IF YES TO 33a, ANSWER b:							
b.	How often does this happen?	B. C. D. E.	Almost e A few ti A few ti Only ond Never.	mes mes	each mo each ye			(x)
34a.	Is your wheezing and/or chest tightness worse at different times of the year?				1. Yes	2. N	0	(x)
						Go t	o Q 35	r
	_IF YES TO 34a, CIRCLE THE MONTHS IN WHEEZING AND/OR CHEST TIGHTNESS	WH	ICH YOU	ARE M	OST TRO	UBLED	ву	
ъ.	Jan Feb Mar Apr May Jun	Ju!	i Aug	Sep	Oct	Hov	Dec	(x)
	1 2 3 4 5 6	7	8	9	10	11	12	
35.	Is your wheezing and/or chest tightness better, the same or worse when on vacation or not working?	b.	Better The same Worse	e				(x)
36.	Have you ever had 2 or more attacks of wheezing that has made you feel short of breath?				1. Yes	: 2. N	io	(x)
SHOR	TNESS OF BREATH:							
37.	Have you ever been troubled by shortness of breath?				1. Yes	: 2. B	lo	
38.	Are you troubled by shortness of breath when hurrying on level ground or walking up a slight hill?				1. Yes	2. E	io	
39.	Do you get short of breath walking with other people of your own age on level ground?				1. Yes	2. E	īo	
40.	Do you have to stop for breath while walking at your own pace on level ground?				l. Yes	. 2. E	i o	
41.	Do you get short of breath dressing or walking about the house?				l. Yes	. 2. I	īo	

		ID #
	_IF YES TO Q 38, 39, 40 OR 41, ANSWE	TP A 42.
<u>42</u>	For how long have you had this shor	
7.0	of breath?	Years
	Do you get short of breath while	
٠	at work, performing your job?	1. Yes 2. No
	GO WOLL, POSTOCIALING JULY JULY	J. 335 1. 10
448.	Do you get short of breath during	
	or after exposure to grain dust?	1. Yes 2. No (x)
		Go to Q 45a
	_IF YES TO Q 44a, ANSWER b, c, d AND) e:
ħ	In your opinion, which grain dusts	are most (x)
υ.	likely to bring on shortness of bre	
	make it worse? (May circle more th	
	A. Durum wheat	G. Soybean
	B. Spring wheat	H. Linseed
	C. Rye	I. Sunflower seed
	D. Oats	J. Beets
	E. Barley	K. Halt
	F. Corn	L. Other
		(Specify)
c.	When is your shortness of breath	(x)
	most likely to get worse? (Circle	A. During work
	only one)	B. After work
	•	C. Either during or after work
đ.	If it starts during work, how soon	(x)
•	after the beginning of the work	A. Right away
	shift does this happen?	OR
	and the property of the proper	B hours after
e.	If it starts <u>after</u> work, how many hours after work does this happen?	(x) hours after
	more area work aves this happen.	
	IN YOUR WORK YOU ARE EXPOSED TO GITIONS, IF NOT, GO TO Q 50.	RAIN DUST, PLEASE ANSWER THE WEXT WORK
4 022	<u> </u>	
<u>FEVE</u>	R AND/OR CHILLS (SHIVERING):	
45a.	Have you ever had fever and/or	(x)
	chills during exposure, or after	1. Yes 2. No
	being exposed to grain dust?	
		Go to Q 48
ъ.	If yes to 45a, did you have:	A. Only fever?
	• • • • • • • • • • • • • • • • • • • •	B. Only chills?
		C. Mostly fever?
		D. Mostly chills?
		P Both favor and chille?

		ID #	
46.	When have you noticed the fever and/or chills? (Circle only one.)	A. During work. B. After work. C. Either during or after work.	(x)
	_IF IT STARTS AFTER WORK:		
47a.	About how many hours after work did this (these) happen?	hours after work	(x)
ъ.	About how many hours did this (these) last?	hours	
c.	How many times in your work life as a grain handler have you had fever and/or chills after work?	times	
d.	When have you experienced this fever and/or chills?	A. On first day back to work.B. Any other day at work.C. On either the first day back on any other day.	
e.	If on the first day back to work, how long had you been off work?	number of days	
48.	<u>During</u> exposure to grain dust have you ever had:		(x)
	a. Eyes burning, watering or itchi	ng? 1. Yes 2. No	
	b. Stuffy nose?	1. Yes 2. No	
	c. Throat sore or burning?	1. Yes 2. No	
	_IF YES TO Q 48a, b OR c, ANSWER d:		
đ.	In your opinion, which grain dusts likely to bring on these symptoms worse? (May circle more than one.)	or make them	(x)
	A. Durum wheat	G. Soybean	
	B. Spring wheat	H. Linseed	
	C. Rye D. Oats	I. Sunflower seed J. Beets	
		J. Beets K. Malt	
	E. Barley F. Corn	L. Other	
		(Specify)	
49a.	During or immediately after exposur dust, have you ever had <u>itching</u> on		(x)

					ID	#	
	IF YES TO 49a, ANSWER b AND c:	<u> </u>		· · · · ·			
b.	How many times in a year is this likely to happen?		ti	mes			(x)
c.	In your opinion, which grain dusts likely to bring on the skin itching circle more than one.)						(x)
	A. Durum wheat B. Spring wheat C. Rye D. Oats E. Barley F. Corn	H. I. J. K. L.	Soybean Linseed Sunflower Beets Malt Other pecify)	seed			
TOBA	CCO SMOKING				-		
50.	Have you <u>ever</u> smoked cigarettes? (If you have smoked <u>less than</u> 20 poof cigarettes in your lifetime, choose		o.)	1.	Yes	2. No	
51a.	Do you <u>now</u> smoke cigarettes? (Answer "yes" if you currently smoyou stopped smoking within the las			1.	Yes	2. No Go to	a.
	IF YOU SMOKE REGULARLY NOW:		_				
b.	Do you inhale the cigarette smoke?			1.	Yes	2. No	(x)
c.	How old were you when you began to smoke cigarettes?				Ag	;e	(x)
đ.	How many cigarettes do you usually smoke each day at the present time (Please give best estimate: one p contains 20 cigarettes.)	?		_		garett er day	(x)
e.	What is the usual number of cigare you have smoked per day since you to smoke? (Please give best estimone pack contains 20 cigarettes.)	began	1	_		garett er day	(x)
f.	If there have been periods when you abstained from smoking, please ent total years of abstinence from smo (If less than one year, do not fil	er king.		_	3	ears/	(x)
IF Y	OU HAVE COMPLETED THIS SECTION, GO	TO Q	53a.				

			I	D #			
52a.	Did you used to smoke cigarettes?	1.	Yes	2.	No		(x)
	_IF YOU DO NOT SMOKE CIGARETTES REGULARLY NOW, BUT SMOKE THEM: (If you have not smoked at least 20 packs of cigarettes in your lifetime, check here:						
b.	how old were you when you began to smoke cigarettes?			Year	s		(x)
c.	How old were you when you stopped smoking cigarettes regularly?			Age			(x)
đ.	What was the usual number of cigarettes you smoked per day? (Please give best estimate: one pack contains 20 cigarettes.)			ciga per			(x)
e.	If there have been periods when you abstained from smoking, please enter total number of years of abstinence from smoking. (If less than one year, do not fill in.)			Year	s		(x)
53a.	Do you now smoke pipes or cigars?	1.	Yes	2. Go		Q 54	
ъ.	Do you usually inhale when you smoke either pipes or cigars?	1.	Yes	2.	No		(x)
PEST	ICIDES:						
54.	Have you <u>ever</u> been exposed to pesticides?	1.	Yes	2.	No		
				Go	to	Q 63	a
55.	During or immediately after exposure to pesticides, have you ever had any health problems or symptoms?	1.	Yes	2.	No		(x)
				Go	to	0 63	a

		ID #
	_IF YES TO Q 55, ANSWER THE NEXT QUES	STIONS
56.	Where did this (these) exposures happen?	a. At work b. At home c. On a farm d. Other (Specify)
57.	What kind of health problems did you have?	a. Weakness b. Fainted c. Dizziness d. Headache e. Convulsions f. Trouble breathing g. Wausea and/or vomiting h. Stomach pain i. Diarrhea j. Muscle twitching, cramps k. Blurred vision l. Jaundice m. Other (Specify)
58.	How many days did these problems last?	Days
59.	How many times have you had these problems?	Times
60.	Have you ever been ill following the exposure to pesticides that you couldn't do your regular job?	1. Yes 2. No
61.	Have you ever had to go or be taken to a doctor or hospital because of these problems?	1. Yes 2. No
62.	<u>What</u> pesticides caused you to have symptoms?	a. Do not know b. Carbon tet (weevilcide) c. Malathion d. Methyl bromide e. Phostoxin f. Other (Specify)

ID #			
	ID	#	

THE	NEXT	SET	OF	QUESTIONS	IS	ABOUT	ILLNESSES	YOU	HAVE	HAD	OR	HAVE	CURRENTLY	۲.
WHEN	RECO	RDING	G AG	E. WRITE	IN T	HE YOU	NGEST AGE.	AT W	HICH T	CHE 1	LLN	ESS O	CCURRED.	

63a.	During the past 3 years, how much trouble have you had with illnesses such as chest colds, bronchitis or pneumonia?	B. C. D.	Muc	tle erate	•	(x)
ъ.	During the past 3 years, how often were you unable to do your usual activities because of illnesses such as chest colds, bronchitis or pneumonia?	B.	2-5	time time		es
64.	Has a doctor ever told you that you had any of the following:					<u>A</u> GE
	a. Bronchitis (or bronchial trouble)	1.	Yes	2.	No	
	b. Emphysema	1.	Yes	2.	No	
	c. Pleurisy	1.	Yes	2.	No	
	d. Tuberculosis of the lung	1.	Yes	2.	No	
	e. Cancer of the lung	1.	Yes	2.	No	_
	f. Chest surgery (including heart surgery)	1.	Yes	2.	No	
	g. Chest injury	1.	Yes	2.	No	
	h. Sinus trouble	1.	Yes	2.	No	
	i. Farmer's Lung Disease	1.	Yes	2.	No	
65a.	Has a doctor ever said you had: Pneumonia or broncho-pneumonia?	1.	Yes	2. Go	No to Q 66:	a
	_IF YES TO Q 65a, ANSWER b AND c:				•	
ъ.	How many times have you had pneumonia?			Time	s	(x)
c.	Your age (or ages) when this (these happened?	•		Year	·s	(x)
66a.	Has a doctor ever said you had bronchial asthma?	1.	Yes			
				Go	to Q 67	

					Pa	ge 210)
				ID #	·		_
	_IF YES TO 66a, ANSWER b,	c AND d:					
ъ.	How old were you when you	r asthma started?		Age starte	ıd	()	:]
c.	Do you still have asthma?		1. Y	es 2.	No	()	r)
d .	If no, how old were you wasthma stopped?	hen your	_	Age stoppe	:đ	(2	E]
67.	Has a doctor ever told yo had any of the following?	-					
	a. Heart trouble		1. Y	es 2.	No		
	b. High blood pressure		1. Y	es 2.	No		
	c. Allergic reaction in y such as hay fever	our nose,	1. Y	es 2.	No		
	d. Kidney trouble		1. Y	es 2.	No		
	e. Liver trouble or jaund	ice	1. Y	es 2.	No		
	f. Diabetes		1. Y	es 2.	No		
68.	Have you ever had a serio rash in infancy (eczema)?		1. Y	es 2.	No		
69.	Have you ever suffered fr	rom skin	1. 1	es 2.	No		
	Lasiies:			Go	to Q	71	
70a.	If yes, have you ever suf skin rashes lasting longe weeks?		1. Y	es 2.	No		
				Go	to Q	71a	
	_IF YES TO Q 70a, ANSWER b	:					_
ъ.	What area was involved?					(;	•
	A. Face	F. Chest					
	B. Ears	G. Back					
	C. Scalp	H. Abdomen					
	D. Hands	I. Legs					

J. Feet

71a. Have you ever suffered with painful or swollen joints?

E. Arms

1. Yes 2. No

					ID #	
	IF YES TO Q 71a, ANSWER b	AND c:				
ъ.	Which joints were involved					(x)
•	william journey					
	A. Fingers			Spine		
	B. Wrists			Hips		
	C. Elbows			Knees Ankles		
	D. Shoulders		п.	Ankles		
c.	Were the joints swollen?		_		1. Yes 2. No	(x)
72.	Do you have frequent "chil					
	fever, sweating and perhap	s shaking	?		1. Yes 2. No	
73.	Do you have swelling of bo	th ankles	?		1. Yes 2. No	
74.	Has any member of your <u>imm</u> (blood relative) had any o diseases?				RELATIVE	
	a. Chronic bronchitis	1. Yes	2.	No		
	b. Emphysema	1. Yes	2.	No		
	c. Asthma	l. Yes	2.	No		
	d. Hay fever	1. Yes	2.	No		
	e. Cystic fibrosis	1. Yes	2.	No		
	f. Cancer of the lung	1. Yes	2.	No		
	g. Farmer's Lung Disease	1. Yes	2.	No		
	h. Other lung disease (Specify)	1. Yes	2.	No		
75a.	Have you ever had a chest in the past?	x-ray			1. Yes 2. No	
	_IF YES TO Q 75a, ANSWER b	and c:				
ъ.	. Where was the last chest x	-ray tak	en?			
			_in	·	in 19	
	(Hospital)			(City)		
	OR					
	(Bartanta - CC) - 1	<u> </u>	ir	(0)	in 19	
	(Doctor's office)			(City)		
c.	. Have you ever been told you abnormal chest x-ray?	ou had an			1. Yes 2. No	
	aunurmai Chest K-Fay!				1. 155 C. AU	

ID # ____

76.	Are you taking any drugs or medications? (Prescribed or not)	1. Yes 2. No	
	If yes, please list the medications here:		
77.	When was the last time you were exposed to your working environment?	a. Today b. Yesterday c. 2 days ago d days a	ago
(Dat	<u>.</u> e)	(Signature)	

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DEPARTMENT OF HEALTH, EDUCATION AND WELFARE

Public Health Service

Center for Disease Control

National Institute for Occupational Safety and Health
Appalachian Laboratory for Occupational Safety and Health

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HEALTH STATUS OF GRAIN HANDLERS

Identification No.	Interviewer Code
Location	Date of Interview