In order to use the National Survey of Lead Hazards and Allergens in Housing: Resident Questionnaire, you must agree that if you use the questionnaire or any part of the questionnaire for research purposes, your research will credit the developers of this survey and their sponsors: U.S. Department of Housing and Urban Development and the National Institute of Environmental Health Sciences.

Form D-20 OMB # 2539-0012 Expires: 4/30/2001

HU #				
Date: Time Begun: _	_/	/	(AN	Л/PIV
Interviewer Nan	ne:			

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES NATIONAL SURVEY OF LEAD HAZARDS AND ALLERGENS IN HOUSING

RESIDENT QUESTIONNAIRE

INTRODUCTION: Hello. We made an appointment to do some environmental testing here today. Is (MR./MS. NAME OF CONTACT) here?

My name is (INTERVIEWER NAME). This is (NAME OF TECHNICIAN). We are with Westat. We spoke to (you/MR. /MS. NAME OF RESPONDENT, SEE CONTACT RECORD) last week and invited your household to participate in a research study for the United States Department of Housing and Urban Development and the National Institute of Environmental Health Sciences. (SHOW ID BADGE, ASK TO GO INSIDE)

Box A

IF THE CONTACT IS NOT AT HOME, ATTEMPT TO CONDUCT THE SURVEY WITH THE PERSON ANSWERING THE DOOR, IF AT LEAST18 YEARS OLD AND A RESIDENT OF THE HOME.

- IF THE RESIDENT SPEAKS MAINLY SPANISH, READ THE SPANISH QUESTIONNAIRE.
- IF THE RESIDENT HAS ANY COMMUNICATION PROBLEM (E.G., AUDITORY OR VISUAL DISABILITY, OR SPEAKS A LANGUAGE OTHER THAN ENGLISH OR SPANISH), ASK TO SPEAK WITH ANOTHER ADULT IN THE HOUSEHOLD. IF NOT, ASK PERMISSION TO GET A NEIGHBOR OR NEARBY FRIEND OR RELATIVE TO ASSIST.
- IF THE PERSON WILL NOT ALLOW THE SURVEY ASK WHEN THE CONTACT WILL BE HOME:

IF THE PERS	ON WILL NOT ALLOW THE	SURVEY, ASK WHEN THE CONTACT WI	LL BE HOME:
	TIME:	DAY:	
IF LATER THE SA APPOINTMENT B	•	RN THEN. IF ANOTHER DAY, RE-ARRANG	GE THE
NEW APPO	INTMENT DATE:	TIME:	
COMPLETE THE	RECORD OF CONTACT TO	O DOCUMENT THIS/THESE ACTIVITY(IES	5).

Before we can begin our work I would like to ask you to please read and sign the informed consent form which explains the study in detail and gives us permission to collect dust and soil samples in this home. I will go over each item of the form with you so that you know exactly what we are going to do. You will be given a copy of the informed consent to keep. (NAME OF TECHNICIAN) will be preparing our sampling equipment and forms in the meantime.

WAIT FOR THE RESPONDENT TO READ EACH ITEM ON THE CONSENT FORM. ANSWER ANY QUESTIONS THEY MAY HAVE REGARDING THE STUDY AND WORK YOU ARE DOING. THEN SIGN BOTH COPIES AND ASK THE RESPONDENT TO ALSO SIGN AND DATE BOTH COPIES OF THE CONSENT FORM. AFTER CHECKING THE SIGNATURE AND DATE, PROVIDE RESPONDENT WITH ONE COPY AND PROCEED. DO NOT BEGIN ANY WORK UNTIL RESPONDENT GIVES PERMISSION.

We would like to save time and do the data collection in the most efficient way. We do not have to sample in every room in the house, so it would be best to select the rooms for the dust collection now. I need to record on the room inventory list the number and types of rooms you have. After that, I will ask you a few questions about your house/apartment, while [NAME OF TECHNICIAN] uses this list to determine which rooms we will need for the dust and data collection. Is that all right with you?

Box C

INTERVIEWER: COMPLETE THE ROOM INVENTORY FORM WITH THE RESPONDENT. BE SURE THAT YOU ASK THE RESPONDENT TO VERIFY THE NUMBER OF ROOMS RECORDED FOR EACH FLOOR. ALSO VERIFY AGE(S) OF CHILD/REN IF PRESENT FOR EACH CHILD'S BEDROOM.

NOW I	would like to begin with some questions about your nouse/apartment.
Q1.	What year was your residence/apartment built?
	YEAR OF CONSTRUCTION
	DON'T KNOW9998
	HAND RESPONDENT CARD WITH BUILDING DATE CATEGORIES.
Q2.	Which category of years on this card do you think most closely matches when the building was built?
	1978 TO 1998
Q3.	How long have you or anyone in your household lived in this home?
	NUMBER YEARS 1 WEEKS 2 MONTHS 3 (CIRCLE UNIT)
Q4.	How many stories are in the house/building, including the basement? (IF SPLIT LEVEL, OR PARTIAL BASEMENT, COUNT THE GREATEST NUMBER OF STORIES ON TOP OF EACH OTHER.)
	NUMBER OF STORIES

Q5.	How many apartments/housing units are in this building?
	NUMBER OF HOUSING UNITS \rightarrow (Q7)
	DON'T KNOW9998
Q6.	Would you say that there are 4 or fewer units, or 5 units or more, in the building?
	4 OR FEWER UNITS
	BOX D
BUILDI BUILDI	VIEWER: IF THE RESPONDENT DOES NOT KNOW HOW MANY UNITS ARE IN THE NG, VERIFY BY SOME OTHER MEANS (E.G. BY LOOKING AT THE MAILBOXES FOR THE NG). RECORD DK IF YOU CANNOT DETERMINE THE NUMBER. RD NUMBER OF HOUSING UNITS IN THE BUILDING:
The ne	xt series of questions are to collect information that can affect the levels of allergens in your home
Q7.	What is the <u>main</u> heating source in your home? Is it (READ CATEGORIES AND CIRCLE <u>ONE</u>)
	Radiators (steam or hot water)
Q8.	Are there any <u>other</u> sources you use for heat? (READ CATEGORIES ONLY IF RESPONDENT DOES NOT KNOW THE ANSWER. CIRCLE <u>ALL THAT APPLY</u>)
	Radiators (steam or hot water)

Q9a.	What kind of air conditioning system does your home have? Do you have
	Central air conditioning,
	Window units, or
	DON'T KNOW
	DON I KNOW
Q9b.	Which rooms in your house/apartment have window air conditioning units? (CIRCLE ALL THAT APPLY)
	Common living area(s) 1
	Bedroom(s)
	Kitchen 3
	Bathroom(s)
	Some other room 5
	(SPECIFY)
	DON'T KNOW 8
Q9c.	How many total window air conditioning units do you have in this house?
	(NUMBER OF UNITS)
Q9d.	How often have you used air conditioning in the past month? Would you say
	Everyday, 1
	20 to 30 days, 2
	10 to 20 days, 3
	1 to 9 days, or 4
	Not at all? 5
	DON'T KNOW 8
Q10.	In the past month, approximately how many hours a day did you keep the windows or doors open in your home? Was it
	Less than 1 hour per day 1
	1-3 hours per day,
	4-12 hours per day,
	more than 12 hours per day, or
	DON'T KNOW
	DON I KNOW
Q11.	What kind of cooking stove do you have?
	Gas1
	Floatric
	NO STOVE
	OTHER4
	(SPECIFY)

Q12.	Is there a fan that draws air from the stove out of the building	g?
	YES	
	NO DON'T KNOW	
	DON I KNOW	0
Q13a.	Do you have an air filtration device in your home, such as filter?	a HEPA filtration system or some other special
	YES	1
	NO	
	DON'T KNOW	8
Q13b.	Please describe your filtration system and where it is located	d.
		
Q13c.	How often do you change or wash the air filter(s)? Is it ever	y
	Once a week,	1
	1 – 4 months,	2
	5 – 12 months, or	
	more than 12 months? DON'T' KNOW	
	DON'T MIOW	0
Q14.	During the past 12 months, has there been water or dam heavy rain, or floods?	pness in your home from broken pipes, leaks,
	YES	1
	NO	
	DON'T KNOW	
Q15.	Does your home frequently have a mildew odor or musty sm	nell?
	YES	1
	NO	
	DON'T KNOW	8
Q16.	Do you use a dehumidifier in your home?	
	YES	1
	NO	
	DON'T KNOW	8

Q17.	In the <u>past six months</u> have you had any of the No for each type of pet.	he follow	ing pets	living in your home? Please answer Yes or
	YES	NO	DK	
	a.Cat1	2	8	
	b. Dog 1	2	8	
	c. Hamster 1	2	8	
	d. Gerbil1	2	8	
	e.Guinea pig1	2	8	
	f. Rabbit1	2	8	
	g. Bird1	2	8	
	h. Any other pets1 (Specify)	2	8	
IF Q17	A – Q17H ARE ALL NO, THEN SKIP TO Q19)		
Q18.	Of the pets you just mentioned, which are cu	rrently li	ving in yo	our home?
	None01			
	Cat02			
	Dog03			
	Hamster04			
	Gerbil05			
	Guinea pig06			
	Rabbit07			
	Bird08			
	Other?09			
	(SPECIFY)98			
	DON I KNOW90			
Q19.	Do you use any specific methods to "allergy-listed.	proof" yo	our home	? Please answer Yes or No to each method
		YES	NO	DK
	a. Tannic acid or other acaracide	_	2	8
	b. Impermeable mattress and or pillow cover		2	8
	c. Any other methods (specify)		2	8
Q20a.	In the last 12 months, have you had any prob	olems wi	th cockro	paches?
	YES			.1
	NO			.2) (22 72 222)
	DON'T KNOW			.8 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Q20b.	When was the last time you saw cockroaches inside your home? Was it
	Within the last week, 1 Within the last month, 2 2 to 4 months ago 3 5 – 12 months ago 4 DON'T KNOW 8 (GO TO Q21a)
Q20c.	Approximately how many cockroaches do/did you see per day on average?
	Less than 5,
Q21a.	In the past 12 months, have you used any insecticides or bug sprays in your home to control cockroaches?
	YES
Q21b.	In the past 12 months, have you used a professional exterminator in your home to control cockroaches?
	YES
Q22.	In the past 12 months have you had any problems with mice or rats?
	YES
Q23a.	In the past 12 months, have you used any traps, bait stations or rodenticides in your home to control mice or rats?
	YES
Q23b.	In the past 12 months, have you used a professional exterminator in your home to control mice or rats?
	YES
Now I r	need to ask a few questions about the people who live in this home.
Q24.	How many people live in this household?
	NUMBER OF PEOPLE REFUSED 97 DON'T KNOW 98

Q25. For each person, please tell me his or her first name, gender, and age. I will then need to record whether each person is Hispanic or Latino, his or her race, level of education and finally if each person has allergies. Let's begin with you. (ASK ALL QUESTIONS ACROSS A ROW FOR EACH PERSON BEFORE PROCEEDING THE NEXT PERSON)

	a.	b.	C.	d.		e.	f.		g			h			i.			j.			k.	
	First Name	Gender	Age	Ethni H/L	city Non- H/L	Race Code(s)	Level of Education Codes	diagr	nosed	ctor ever you/(next) illergies?	(n Aller	you/do ext) har gic Rhi ay Feve	ve nitis	ha	u/does (ave skir lergies	n	h	u/does (ave food	d		/does any ot ergies?	ther
1.		Male 1 Female 2		1	2			Y N DK	1 2 8	} •	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8
2.	□ No other person – Go to Q26	Male 1 Female 2		1	2			Y N DK	1 2 8	} •	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8
3.	☐ No other person – Go to Q26	Male 1 Female 2		1	2			Y N DK	1 2 8	} •	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8
4.	☐ No other person – Go to Q26	Male 1 Female 2		1	2			Y N DK	1 2 8	} •	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8
5.	☐ No other person – Go to Q26	Male 1 Female 2		1	2			Y N DK	1 2 8	} •	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8
6.	☐ No other person – Go to Q26	Male 1 Female 2		1	2			Y N DK	1 2 8	} •	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8
7.	☐ No other person – Go to Q26	Male 1 Female 2		1	2			Y N DK	1 2 8	} •	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8
8.	□ No other person – Go to Q26	Male 1 Female 2		1	2			N	1 2 8	} •	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8
9.	☐ No other person – Go to Q26	Male 1 Female 2		1	2			N	1 2 8	} GO TO Q26	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8	Y 1	N 2	DK 8

	Q26.	Has a doctor ever diagnosed an	nvone in vour hou	sehold with asthma?	INCLUDE ADULTS TH	HAT HAD CHILDHOOD ASTHM
--	------	--------------------------------	-------------------	---------------------	--------------------------	-------------------------

YES1	
NO2	(GO TO Q28)
DON'T KNOW8	} (GO 10 Q28.)

Q27. Please tell me the names of the people in your household who have been diagnosed with asthma. For each person I have some questions concerning the severity of his or her asthma.

				b.		C.		d.		e.		f.	f.		
a.	Name	ha	es (nar ave ast ima in t	hma or	,	Does (n currently medicati asthm	y take on for	How often has been hospita asthma in the p	lized for	How often has visited an emerg for asthma in year?	ency room the past	How often does (name) awaken from sleep with asthma or wheezing?		How often is (name's) activity limited because o asthma	
1.		Y N DK	1 2 8	}	ĸ	Y N DK	1 2 8	Never 1 – 2 times 3 – 10 times >10 times DK	1 2 3 4 8	Never 1 – 2 times 3 – 10 times >10 times DK	1 2 3 4 8	Every night A few times a week A few times a month A few times a year Never DK	1 2 3 4 5 8	Every day A few times a week A few times a month A few times a year Never DK	1 2 3 4 5 8
2.	□ No other person – Go to Q28	Y N DK	1 2 8	}	Ľ	Y N DK	1 2 8	Never 1 – 2 times 3 – 10 times >10 times DK	1 2 3 4 8	Never 1 – 2 times 3 – 10 times >10 times DK	1 2 3 4 8	Every night A few times a week A few times a month A few times a year Never DK	1 2 3 4 5	Every day A few times a week A few times a month A few times a year Never DK	1 2 3 4 5 8
3.	☐ No other person – Go to Q28	Y N DK	1 2 8	}	SKIP TO Q 28	Y N DK	1 2 8	Never 1 – 2 times 3 – 10 times >10 times DK	1 2 3 4 8	Never 1 – 2 times 3 – 10 times >10 times DK	1 2 3 4 8	Every night A few times a week A few times a month A few times a year Never DK	1 2 3 4 5 8	Every day A few times a week A few times a month A few times a year Never DK	1 2 3 4 5

Q28.		people who live here use any of the following No for each product.	tobacco	produc	ts in the ho	me? Please
	answer res or	No lor each product.	YES	<u>NO</u>	<u>DK</u>	
	a.	Cigarettes		2	8	
	b.	Cigars		2	8	
		Pipes		2	8	
	c. d.	Snuff		2	8	
		Chewing tobacco		2	8	
	e.	Criewing tobacco	1	۷	0	
Q29.	your household	ead a list of work activities. For each activity, diparticipates in that activity at work. In the labu or anyone in your household work on (at the	ast six m	nonths o	r since you	
	2	Paint removal including coroning and	<u>YES</u>	<u>NO</u>	<u>DK</u>	
	a.	Paint removal including scraping and	1	2	0	
	h	sanding		2	8	
	b.	Building demolition		2	8	
	C.	Welding or torch cutting		2	8	
	d.	Plumbing		2	8	
	e.	Sandblasting		2	8	
	f.	Glass work		2	8	
	g.	Lead smelter work		2	8	
	h.	Foundry work		2	8	
	i.	Oil refinery work		2	8	
	j.	Car radiator repair		2	8	
	k.	Battery manufacturing or salvage work		2	8	
	I.	Work at a firing range or police work		2	8	
	m.	0 1 0		2	8	
	n.	Explosive or ammunition work		2	8	
	0.	Other lead-related industry work		2	8	
	p.	Extermination of pests		2	8	
	q.	Animal care worker/veterinarian	1	2	8	
	IF ALL ARE "N	O" (2) ABOVE, SKIP TO Q32.				
Q30.	How often does	s anyone who does this work wear or bring hi	s or her	work cl	othes home	
		•				
		NEVER		(Q32)		
		RARELY				
		OFTEN	_			
		ALWAYS		(-)		
		DON'T KNOW	8 →	(Q32)		
Q31.	Do you usually	wash or clean these work clothes here at the	home?)		
		VEC	4			
		YES				
		NO DON'T KNOW				
		DOIN I KINOW	0			

Q32.	In the last six months or since you moved to this address, h	ave v	/OU	or anvo	ne in vour	househ	old	
~~ -	participated in any of the following activities here at home?		,	o. a, o	,			
	Please answer Yes or No to each type of activity I read to y	ou. I	Did :	you or a	inyone in	our hou	ısehold	
		ΥE	<u>s</u>	<u>NO</u>	<u>DK</u>			
	Remove paint from furniture			2	8			
	b. Remove paint from any part of the house	1		2	8			
	 c. Sand or paint any part of the house 	1		2	8			
	d. Paint cars or bicycles	1		2	8			
	e. Solder pipes or metal	1		2	8			
	f. Solder electronic parts			2	8			
	g. Work with stained glass			2	8			
	h. Use artists' paint (jewelry, pictures)			2	8			
	i. Work with pottery or glazes			2	8			
	, , ,			2	8			
	,							
	k. Make bullets or fishing sinkers	1		2	8			
My last	t few questions are general questions to categorize your hom	ne for	the	survey.				
Q33.	Do you own or rent this home?							
	OWN	1	\rightarrow	(Q35)				
	RENT		-	(4,5 5)				
	REFUSED							
	DON'T KNOW	0						
Q34.	Is this house/apartment privately owned or does a public house	ousing	g au	thority o	own it?			
	OWNED PRIVATELY	1						
	PUBLIC HOUSING		\rightarrow	(O36)				
	REFUSED			(000)				
	DON'T KNOW							
	DON I KNOW	0						
Q35.	Does the government pay some of the cost of the unit?							
	V=0							
	YES	• • • •						
	NO		\rightarrow	(Q37)				
	REFUSED	7						
	DON'T KNOW	8						
Q36.	Do the people living here have to report the household's incoset the rent or mortgage?	come	to s	ome ag	jency ever	y year s	o they o	can
	YES	1						
	NO							
	REFUSED							
	DON'T KNOW	8						

Q37.	I need to ask about your 1997 household income.	This information will never be associated with your
	household. Was the total 1997 income for the house	sehold below or above \$35,000?

BELOW \$35,000	1	\rightarrow	(INCOME CARD A)
\$35,000 OR MORE	2	\rightarrow	(INCOME CARD B)
DON'T KNOW	8		

HAND RESPONDENT CARD WITH INCOME CATEGORIES AS SPECIFIED IN Q37 ABOVE.

Q38. Which category on the card should I circle? (Was your household income in 1997 . . .)

We have just a few more questions about the rooms where we will sample dust and paint: (TECHNICIAN WILL NAME THE SELECTED ROOMS – INTERVIEWER WILL WRITE IN THE ROOM NUMBER CODES ON THE QUESTION 39 MATRIX)

Q39. We are trying to understand how long people are likely to be exposed to lead hazards or allergens in their homes.

On average, how many hours per day does [NAME OF HH MEMBER] spend in [NAME OF ROOM]?

[INCLUDE TIME SLEEPING – HAND RESPONDENT THE TIME CODES CARD AND HAVE THEM SELECT THE APPROPRIATE CATEGORY.]

				T				T
		a.	b.	C.	d.	e.	f.	g.
		KITCHEN	COMMON LIVING AREA	BEDROOM #1	OTHER ROOM #1	BASEMENT	BEDROOM #2	OTHER ROOM #2
	ROOM INVENTORY AND SELECTION FORM CODE	1	2	3	4	49	3	4
	HOUSEHOLD MEMBER NAME							
1								
2								
3								
4	ļ							
5	5							
6	6							
7								
8	3							
9								
	When was the floor/carpet last cleaned?							
	How was the floor/carpet last cleaned? (SHOW CARD)							
	When was the last time the carpet/rug was shampooed or steamed cleaned?							
	When was the last time the upholstered sofa/chair was shampooed or steam cleaned?							
	When was the bedding last washed?			Days Weeks			Days Weeks	
	What was the wash water temperature?			Hot 1 Warm 2 Cold 3			Hot 1 Warm 2 Cold 3	

-							
Thank you	now we will begin	i sambling dust i	and baint V	Ne would verv	much appreciate i	IT IT VOU COU	ild accompany us.
riiaini jou,		i oampiing aact	ana pant. T	110 110 414 1019	mach approduce	, oa ood	na accompany ac.

TIME ENDED:		(AM/PM)
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