

ATTACHMENT 2

Library of Chemical Exposure Questions

Library of Chemical Exposure Questions

(Revised June 2009)

Note: Each survey will have the following format.

Form Approved
OMB NO.: 0923-0040
EXPIRATION DATE: XX/XX/XXXX

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: CDC/ATSDR Reports Clearance Officer; 1600 Clifton Road, MS D-74, Atlanta, GA 30333, ATTN: PRA (0923-0040).

Example Script for Environmental and/or Biologic Sampling Events

Sample Introduction for Environmental Investigation:

Hello, my name is **SAY NAME**. We are doing an Exposure Investigation for ATSDR. ATSDR is a sister agency to the Centers for Disease Control and Prevention. As part of the investigation, we will be asking you some common questions like your name and address. We will also ask questions on your contact with chemicals. We are asking these questions to better understand all the data we collect.

The questions should take less than thirty minutes. After that, we will be offering free **FILL IN TYPE(S)** = [FOR ENVIRONMENTAL-air, soil, water, foods testing] Once we are done with this investigation, you will be given a copy and details of -your location or the exposure location test results. Generally, we are able to get results to you within (**FILL IN ADJUSTED TIME FRAME OR INSERT 4 – 8 WEEKS**).

Sample Introduction for Biologic Investigation:

Hello, my name is **SAY NAME**. We are doing an Exposure Investigation for ATSDR. ATSDR is a sister agency to the Centers for Disease Control and Prevention. As part of the investigation, we will be asking you some common questions like your name and address. We will also ask questions on your contact with chemicals. We are asking these questions to better understand all the data we collect.

The questions should take less than thirty minutes. After that, we will be offering free **FILL IN TYPE(S)** = [FOR BIOLOGIC-blood, urine, hair, nails, other testing for all people who live in your home]. Once we are done with this investigation, you will be given a copy and details of -you and your minor children's (if you have them) test results]. Generally, we are able to get results to you within (**FILL IN ADJUSTED TIME FRAME OR INSERT 4 – 8 WEEKS**).

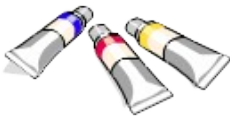
Questionnaire Library Categories

Confounders for Biologic Samples:

For each chemical being investigated, what other sources of that chemical could the participant be encountering?



Occupation



Hobbies



Medicines



Health Conditions

Lifestyle



Household Uses or House Construction

Foods



Exposure Factors ;
What activities would cause someone to have more exposure than another?



Soils:
Gardening, Playing, Pets

Foods:
Garden Veg, Fish, Game, Domestic



Water:
DW source, Plumbing

Air:
Indoor/Outdoor
Odors, Symptoms, Length of time indoors, House construction, etc

General Information Questions

Example Script: Now I want to ask you questions about how I can contact you. I may also be asking how long you have lived at or visited certain places. This is needed to find out how long you may have had contact with chemicals and how long it may have lasted. We may also ask your age, race, weight and height, and about your jobs. This is useful to put your test results side by side with others like you to see what is typical.

NOTE: It is recommended that you ask the general questions last.

(Name of Survey Taker HERE :)			
(Investigation ID)	(For ATSDR, use Cost Recovery Number plus auto generated 2 digit hyphenated add on)		
(Participant ID Number)	(May need a drop down if participant has been in a previous investigation)		
(Relationship/Household ID)	(Use some way to connect participants to a location, family name, etc. Choose by keying in one of the following or some other where a drop down list appears to connect people): <ul style="list-style-type: none"> • First Name/Last Name • Street and #, City, St • Exposure Location (Street. City, St or intersection) • Building • Room 		
(Laboratory ID)	(Given by lab. May be multiple if sample is split or divided into aliquots)		
NOTE TO SURVEYOR: The following abbreviations and acronyms are used throughout.			
DK-Don't know			
NA-Not applicable			
Mm/dd/year-2 digit month, 2 digit day, 4 digit year			
Ft-feet			
In-inches			
(First name of person answering questions for minor child)			
(Last name of person answering questions for minor child)			
General Information			
Please spell your first name: (if minor child, put child's name here)			
Please spell your last name:			
Middle Initial:			
What is your Street Address?			
If this is an apartment, or the address has another defining number or letter, please provide that now:			
City:			
County:			
State: (We want to generally have this already pre-programmed unless the investigation crosses states)			
Zip Code:			
Do you (or household head) rent or own this property?	Own	Rent	NA
If your mailing address is different from your street address, what is your mailing address?			
City:			
State:			
Zip Code:			
How long have you lived at this address?	<6months	6mos-<2yrs	2-5 yrs
	6-10 yrs	>10 yrs	
How long have you lived at this address? (Note: use this question if you need a more exact date)	mm/year		

How long have you lived in (Fill in Town, Neighborhood, or City of Interest)?	<6 months	6mos-<2 yr	2-5 yrs
	6-10 yrs	>10 yrs	
Previous Address			
Surveyor, ask for previous address if they have lived at current address less than a period you determine as a cut off. (6mos, 1 yr).			
What was your previous street address:			
City:			
State:			
Zip Code:			
Years at that address?			
Please provide a phone number where we can reach you.	Home:	Work:	Cell: Other:
Is there an email address where we can reach you? If yes, what is it?	No		Yes: _____
What is the primary language spoken in your home? (ONE ANSWER ONLY)	English	FILL IN OTHERS	
What is the occupation of the adults in the household? (Note to surveyor: You may want to ask this question here or with the list of jobs in the confounder section but probably not in both sections)	Animal Control Worker, Animal Scientist, Veterinarian Airport or Aircraft Worker Arts & Media Assemblers & Fabricator Car Repair, Mechanic Chemical Industry Worker (mixer, processor, researcher) Child Care Worker Cleaning homes or offices Construction Crop & Livestock Production Dentist, Dental Hygienist Detective and Criminal Investigator Disabled & stay at home Dry Cleaning Worker Fire Fighter Electrician, Electrical worker Engineering, Sciences & Education Equipment Operator Etcher or Engraver Extractive (e.g., mine machines, drills) Explosives Worker Farmworker Fishing & Hunting Floor Finisher Food Processor Food Service Furniture Finisher Grounds Maintenance Worker Hairdresser, Hair Stylist &/or Cosmetologist Health Care Worker Home Care Taker Installation, Maintenance & Repair Worker Jeweler Logging, Forest & Conservation Worker Machinist Material Moving Metalworking & Plasticworking Miner Miscellaneous Production Worker Manicurist Mortician and Embalmer Office Worker Painter Pest Control Worker		

	Petroleum worker Photo processing, photographer Physician, Anesthesiologists Pilot Police or Sheriff Patrol Officer Printing Worker Retired Roofer Textile, Apparel & Furnishing Worker Utilities & Transportation Worker Welder including soldering & brazing Woodworker Other: List: _____ None
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Demographic Questions
Script: The next questions are about your own qualities and will help us compare your test results.

Surveyor, please indicate whether the person is a male or female. If this questionnaire is for a minor child, be sure to ask their gender.

Gender:	M	F		
Date of Birth: dd/mm/yr(yyyy)				
What is your ethnicity ?	Hispanic or Latino	Non Hispanic or Latino	Don't Know (DK)	Refused
Choose the race that best characterizes you (or your minor child)	White	Black or African American	Asian	
	Native Hawaiian or Other Pacific Islander	American Indian or Alaskan Native		
What is your current height ?	Ft	in		
What is your current weight ?	lbs			
(If female) Are you pregnant? If yes, in what month of pregnancy?	No	Yes: 0-3 4-6 7-9		

Household Characteristics
Script: The next set of questions is about the number of people in the household and how long you have lived here.

How many people live here fulltime since (INSERT TIMEFRAME), including yourself? (# People in Household)				
Are there any children under the age of 18 who live in the household? [if NO skip the next questions]	Yes	No		
How many children are between the ages of 0-6 years old?				
How many children are between the ages of 7-12 years old?				
How many children are between the ages of 13-18 years old?				
Do they play or ride bikes in bare soil?	Never Do This	Seldom Do This	Sometime Do This	Always Do This
If there are children who regularly (Choose a timeframe: daily/weekly) visit the household, what are the ages of children under 18?				
Please estimate to the nearest hour approximately how long each person was present in the home in the last (INSERT TIMEFRAME).	Person 1	Person 2	Person 3	
	Person 4	Person 5	Person 6	

Exposure Location

Note to Surveyor: If the potential exposure location is different than the household address, ask the following questions. Also fill in the exposure location by address, long/lat, or some other way.

Did the potential exposure take place away from home?	Yes	No
If yes, where? (Building Name)		
(Room Number)		
(Exposure Location- Street Address)		
(Street Address 2 for intersections)		
(City)		
(State)		
(Zip Code)		
How long have you been visiting or going to the (Fill in Location Name)?	mm/year	
When was the last time you were at the (Fill in Location Name)?	mm/dd/year	
What do you do or were you doing at the (Fill in Location Name) exposure location (for example, work, hunt or fish, etc.)?		

Exposure Location Information from ATSDR's Rapid Response Registry

At the time of the event on [specify day and time], what address were you [was the registrant] at or what was the name of the building or intersection closest to you [the registrant]?				
Were you [was the registrant] present at [the event site]?	Yes	No	DK	Refused
If yes, were you [was the registrant]:	inside a building or structure inside a car or other vehicle	Outside	Other	Specify:
	Don't Know (DK)	Refused		
Did you [the registrant] get an injury or any illness as a result of the event?	Yes	No	DK	Refused
If Yes, what illness or injury did you [the registrant] get? (List all)			DK	Refused
Before the event, did you [the registrant] have a:	Chronic illness	Physical Disability	Other Disability	
	Unsure	Refused		
Are you [is the registrant] pregnant? [or "Were you (was the registrant) pregnant at the time of the event?"]	Yes	No	DK	Refused
Are you [is the registrant] in need of:	Medications/supplies	Medical care	Utilities	
	Food	Shelter	DK	
	Refused			
	DK	Refused		

Indoor Air

Script: These questions will help us determine the possible sources of air pollutants in your household and any symptoms or conditions that would make breathing pollutants more harmful to you.

Time Indoors

How many hours per day do you spend inside your home in a usual weekday? (24 hours is one day)	Less than 8 hours Between 8 and 14 hours Between 15 and 24 hours
How many hours per day do you spend inside your home in a usual weekend? (24 hours is one day)	Less than 8 hours Between 8 and 14 hours Between 15 and 24 hours
How many fewer hours do you spend indoors during the warmer months? (How much additional time are you outside)?	Same Between 1 and 3 more hours 4 or more hours

Confounders and Other Sources

Script: These questions relate to other things that may trigger symptoms similar to air pollutants.

Note to surveyor: Confounders to symptoms are listed here. Chemical specific confounders are listed under the chemical you are investigating.

Are there any smokers in the household (not including you) [if 'no' skip]?	Yes	No			
Do you currently smoke?	Yes	No	Refused		
[If there are any smokers in the house] How many people smoke?					
How many cigarettes per day are usually smoked anywhere inside the home by anyone? (20 in a pack)	none	1-5	6-10	11-20	>20
How many cigars per day are usually smoked anywhere inside the home by anyone?	None	1		>1	
How many pipes per day are usually smoked anywhere inside the home by anyone?	None	1		>1	
Do you have any pets?	Yes		No		
What types of indoor pets do you have in your home?	Dog		Cat		
	Rodents: hamster, mice, rat, gerbil, guinea pig		Rabbit		
	Ferret		Other: list		

Fuels Used Indoors

Do you use any of the following in your home?	Natural gas used for heating Natural gas used for cooking Propane gas used for heating Propane gas used for cooking Kerosene Coal used for heating Coal used for cooking Wood Burning Stove used for heating Wood Burning Fireplace used for heating Wood Burning Fireplace used for cooking Gasoline Solar Artificial Logs (disposable store bought e.g., Duraflame) None
During which month do you (or does the building) usually start using those fuels?	If 'none' skip next two questions. <i>Start Month:</i> Jan Feb March April May June July August Sept Oct Nov Dec

During which month do you usually (or the building) stop using those fuels?	Stop Month: Jan Feb March April May June July August Sept Oct Nov Dec
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Symptoms/Conditions

Script: Individuals with certain conditions may be more sensitive to the effects of chemicals. I would like to ask you questions about your health.

Is anyone in the household pregnant?	Yes	No	DK
If yes, in what month of pregnancy?	0-3	4-6	7-9

Adults

Have you ever been told by a health professional that you have any chronic heart or lung conditions, such as coronary artery disease, asthma, or emphysema? [if 'no' go to the next section]	Yes	No	Refused
Do you currently have that condition?	Yes	No	Don't Know
If yes, please describe the health condition(s).			
Are there any adults with chronic heart or lung conditions, such as coronary artery disease, asthma or emphysema?	No	Yes	DK
Are there times when your condition(s) gets worse? (e.g., night, day weekend, weekday)	Yes When?	No	
Are there any places when your condition(s) get worse? (e.g., home, work, school)	Yes When?	No	
Are there any seasons when your condition(s) get worse? (e.g., spring, summer, fall, winter)	Yes When?	No	

Children

Are there any children (under the age of 18 years old) with chronic heart or lung conditions, such as congenital heart disease, asthma or cystic fibrosis?	Yes	No	Don't Know
If yes, what are the ages of these children?			
Please describe the condition(s).			
Are there times when your condition(s) gets worse? (e.g., night, day weekend, weekday)	Yes When?	No	
Are there any places when your condition(s) get worse? (e.g., home, work, school)	Yes When?	No	
Are there any seasons when your condition(s) get worse? (e.g., spring, summer, fall, winter)	Yes When?	No	

Odors/Fumes

Have you or your household members noticed odors or fumes in your home or in common areas where you spend the most time (bedroom, living room, kitchen)?	Yes	No	DK
If yes, please describe the odors/fumes, as well as their location, when they occur (times of the day, days of the week, seasons of the year), and duration:	Describe odor:		
	When: Time of day Day of week Season		
	How long:		

Have you been told you have the following:

Condition	Yes/No	Were you told you had this by a doctor or nurse? Yes/No	How old were you when a doctor or nurse first told you
Asthma, allergies			
Chronic bronchitis or emphysema?			
Angina			

Attributes of the Structure or Home

The following questions are about the qualities and characteristics of your home.

Do you live in an:	Apartment	Single Family Home	Townhouse or Condominium	
	Mobile Home	Other (Specify)		
If you live in an apartment, town home, or any multistory structure, how many floors are there?	Number of floors in building _____			
If you live in an apartment, town home, or any multistory structure, what floor do you live on?	Participant floor number _____			
About when was the building built?	2000-present 1990-1999 1985-1989 1980-1984 1970-1979 1960-1969 1950-1959 1940-1949 1939 or earlier DK			
What is the condition of your home or building?	Good	Fair	Poor	
Is the home or building built on a slab?	Yes	No	DK	
Does the home or building have a basement?	Yes	No	DK	
Does the home or building have a crawlspace?	Yes	No	DK	
Do the windows (e.g., sills) have peeling paint?	Yes	No	DK	
Is there peeling paint in other places?	Yes	No	DK	
Do you currently have mold in your home on an area greater than the size of a dollar bill?	Yes	No	DK	Refused
Do you have a woodstove or fireplace?	Yes		No	
Does smoke enter the room when you use it?	No	Yes	DK	
Are there any chemicals or open containers stored in or near the living spaces of your home?	Yes	No	DK	
Do you use pesticides in your home?	Yes	No	DK	
Other				
Is there anything you want us to know that we did not ask about?				

Water

Script: These questions will help us determine the overall quality of your water as it relates to your exposure or use.

<p>What is your main source of drinking water in your home?</p>	<p>City or county (public) Private well Spring Pond Cistern Community well Bottled Other Specify: _____ Don't know</p>		
<p>(If a water company) What is the name of the water company that provided the water (the place where you send in your water bill)? <i>(Interviewer may want to get the usage off the water bill)</i></p>			
<p>If you have a private well, has it been tested?</p>	Yes	No	DK
<p>If 'yes' do you know the date it was tested, who did the testing, whether it was tested for bacterial and/or chemical contamination, and the results?</p>	<p>Date: Company: Bacteria / Chemical Results:</p>		
<p>What is your main source of water used for cooking?</p>	<p>City or county (public) Private well Spring Pond Cistern Community well Bottled Other Specify: _____ Don't know</p>		
<p>What is your main source of water for bathing and showering?</p>	<p>City or county Private well Spring Pond Cistern Community well Bottled Other Specify: _____ Don't know</p>		
<p><i>Surveyor, the next three questions are for suspect Volatile Organic Compounds (VOCs) in water:</i></p>			
<p>Do you limit time showering and bathing?</p>	Never	Sometimes	Always
<p>Do you shower or bathe in cool water?</p>	Never	Sometimes	Always
<p>Do you limit steam exposure (e.g., from dishwasher, boiling)?</p>	Never	Sometimes	Always
<p>What is your main source of water for pools and hot tubs?</p>	<p>City or county Private well Spring Pond Cistern Community well Bottled Other Specify: _____ Don't know</p>		

<p>List all of the water treatment devices for your drinking water or water used for mixing drinks (e.g., formula, juices).</p>	<p>None Charcoal Filter/Granular Activated Carbon (GAC) Ceramic Filter Reverse Osmosis Water Softener Boil Water Distillation Aerator Water Filter System (Brita, Pur, etc)</p>			
<p>List all of the water treatment devices for your water used for cooking.</p>	<p>None Charcoal Filter/GAC Ceramic Filter Reverse Osmosis Water Softener Boil Water Distillation Aerator Water Filter System (Brita, Pur, etc)</p>			
<p>List all of the water treatment devices for your bathing and showering water.</p>	<p>None Charcoal Filter/GAC Ceramic Filter Reverse Osmosis Water Softener Boil Water Distillation Aerator Water Filter System (Brita, Pur, etc)</p>			
<p>Do you use water filters in your home?</p>	Yes	No	DK	
<p>If you have filters, do you regularly replace and maintain filters?</p>	Never	Sometimes	Always	DK
<p>Do you follow drinking water recommendations?</p>	Never	Sometimes	Always	DK
<p><u>Plumbing</u></p>				
<p>Do you have copper pipes?</p>	Yes	No	DK	
<p>Does your plumbing have lead solder?</p>	Yes	No	DK	

Soils

Script - If chemicals are in the soils, you can get them on your skin by gardening, playing, touching your pets, walking barefoot on exposed dirt (no grass, mulch, etc).

If the question is not applicable to you , please answer "Never Do This."

Soils Information –Contact

How often do you work in soil IN YOUR YARD (e.g., gardening, digging, building, repairing)?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
<i>If "Never Do This", skip next 5 questions</i>				
If so, how frequently do you work in soil in your yard?	Daily		Weekly	Monthly
How often do you use gloves and protective clothing when you work in soil? (e.g. working, playing outdoors, gardening, yardwork)	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
How often do you change clothes immediately after outdoor activity (e.g. working, playing outdoors, gardening, yard work)	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
How often do you wash hands, face, and/ or other exposed skin immediately after outdoor activity (e.g., working, playing outdoors, gardening, yard work)?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
How often do you wash dirty clothes immediately after wear (e.g., work clothes, yard work clothes)?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
Soil Information (Tracking inside home)				
How often do you remove shoes before entering your home?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
How often do you cover bare soils with turf or mulch?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
How often do you wet-down disturbed soils (e.g. gardening, digging, building)?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
When you go outside, how often do you have contact with dirt without shoes?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
Pets (Tracking dirt inside and dander)				
Do you have any pets?	Yes		No	
What types of indoor pets do you have in your home?	Dog	Cat	Rodents: (hamster, mice, rat, gerbil, guinea pig)	Rabbit
	Ferret	Other:		
When your pets go outdoors, how often do they track dirt into the house?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
List the number of indoor pets that regularly go outdoors.				
Note to surveyor - The pets questions can be asked of one person in the household and don't have to be repeated for each person.				
House Cleaning Frequency				
Script –This next set of questions is about the cleaning habits in your home by you or someone else.				
<i>Note to surveyor: The home cleaning questions can be asked of one person in the household and don't have to be repeated for each person.</i>				
How often does anyone wet mop your home?	Twice a week	Once a week	Less than once a month	Never
How often does anyone dry dust your home?	Twice a week	Once a week	Less than once a month	Never
How often does anyone broom sweep your home?	Twice a week	Once a week	Less than once a month	Never

How often does anyone vacuum your home? [if never go to next section]	Twice a week	Once a week	Less than once a month	Never
Does your vacuum have a bag?	Yes		No	
Does your vacuum have a high efficiency particulate air (HEPA) filter?	Yes	No	Don't Know	
Was (INSERT TYPE OF CLEANING, OR SAY ANY CLEANING) done in rooms where the samplers were placed?	Yes		No	
If yes, what type of cleaning?	Vacuum		Damp mop	Wet mop
	Dry mop or dust		Sweep	Other:

If you currently have children \leq 18 in your home, please respond to the following statements. If not, please skip to the next section.

Do you keep children from playing, biking, or doing other activities in areas with possible soil contamination?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
Do you keep children from eating dirt?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This
Do you keep children from putting their fingers and hands in their mouths?	Never Do This	Seldom Do This	Sometimes Do This	Always Do This

Garden

Script: The next questions are about your contact with fresh fruits and /or vegetables

Does anyone, including you or a lawn service, use chemicals on your lawn or garden?	Yes	No	Don't know	
Do you or your neighbor grow fruits and vegetables in the yard?	Yes		No	
What vegetables/fruits do you grow and eat from you or your neighbor's garden?				
When was the last time you ate that vegetable and/or fruit?	Days	Weeks	Months	Years ago
When you eat those fruits and/or vegetables, how often do you eat them?	Daily	Weekly	Monthly	
How often do you wash the vegetables and/or fruit before you eat them?	Never	Sometimes	Always	
How often do you wash the vegetables and /or fruit before you cook them?	Never	Sometimes	Always	
<i>(Note to surveyor: Process can include pressure cooking (can or bag, hot water (can or bag), freezing, or drying)</i>				
Do you process your fruit and vegetables or your neighbor's? [if 'no' go to next section]	Yes	No	Don't Know	
When was the last time you ate your processed fruit or vegetables?	Days	Weeks	Months	
How often do you or your family eat the vegetables and/or fruit you processed from your garden?	Daily	Weekly	Monthly	
How often do you or your family eat the vegetables and/or fruit you processed from your neighbor's garden?	Daily	Weekly	Monthly	

Foods

Fish

Script: These questions will help us determine if eating locally caught fish may increase your contact with chemicals.

First for the following questions, when I say “fish”, I mean any type of seafood, including shellfish, squid, crab, sea urchins or seaweed

Does anyone in your household currently catch fish (of any kind) from [LIST WATERBODY]?	Yes	No	DK
Does anyone in your household eat the fish caught from [LIST WATERBODY]?	Yes	No	DK
How long have you eaten fish? (RECORD IN YEARS)			
<i>Script: When I say “fish meals”, I mean any meal you had which consisted of the entire fish or parts of fish</i>			
What kind of fish and how many fish meals have you eaten in [INSERT TIME FRAME OR USE the last 30 days]? (RECORD NUMBER for each)			
How many ounces of fish do you usually eat in one meal? (Surveyor: USE A MODEL FOR SIZE IF POSSIBLE)	1-4oz	5-8oz	>8oz
What is your primary source of fish? In other words, where do you usually get the fish that you eat? Do you... (SURVEYOR: READ LIST. ONE ANSWER ONLY)	Catch fish yourself or get it from a household member Purchase from a roadside vendor or flea market Purchase from a fisherman’s co-op Purchase from a supermarket Purchase from a restaurant Receive from family and friends Other (SPECIFY)		
In the last 30 days, how often did you eat fish caught from <u>LIST WATERBODY(IES) OF INTEREST?</u>			
For (AREAS MENTIONED ABOVE), what type(s) of fish did you USUALLY catch, take home and eat?			
Did you eat fish within the last [INSERT TIME FRAME OR USE seven days]?	Yes	No	
Where did you get the fish that you ate within the last [INSERT TIME FRAME OR USE seven days]? In other words, where do you usually get the fish that you eat? Do you... (READ, CIRCLE ALL THAT APPLY)	Catch fish yourself or get it from a household member Purchase from a roadside vendor or flea market Purchase from a fisherman’s co-op Purchase from a supermarket Purchase from a restaurant Receive from family and friends Other (SPECIFY)		
(FOR EACH FISH EATEN) Which parts of this fish do you usually eat? (CHECK ALL THAT APPLY)	Whole Eyes	Filet Skin	Head Fish eggs (roe)
FOR EACH FISH EATEN) How do you usually prepare this fish? Do you skin it, trim the fat, gut it, a combination of, or some other way?	Skinning Combination	Trimming fat Other	Gutting
What is your PRIMARY cooking method for this fish?	Raw Stewed	Pan Fried Grilled	Deep Fried Baked Other

Communication/Education

Before taking this survey, were you aware of the LIST ADVISORY that has been issued for the LIST AREA?

Yes

No

<p>Which of these information sources made you aware of the ADVISORY OR WARNING? (CHECK ALL THAT APPLY)</p>	<ul style="list-style-type: none"> <input type="radio"/> A story in the newspaper <input type="radio"/> A print advertisement in the newspaper <input type="radio"/> Television broadcast <input type="radio"/> Radio talk show or radio news <input type="radio"/> Posted signs and notices <input type="radio"/> Meeting <input type="radio"/> Family and friends <input type="radio"/> Church announcement/church bulletin or newspaper <input type="radio"/> Word of mouth <input type="radio"/> Other
<p>Since you learned about the ADVISORY OR WARNING, have you made any changes in either the way you eat the fish you catch or in your fishing habits?</p>	<p>No, I have not made any changes in my fishing or eating habits.</p> <p>Yes</p>
<p>If 'yes', which of these apply to you?</p>	<ul style="list-style-type: none"> <input type="radio"/> I no longer eat any fish from the Advisory or Warning area <input type="radio"/> I eat less fish now than before the Advisory or Warning. <input type="radio"/> I eat more fish now because I can choose fish from areas outside the Advisory or Warning area. <input type="radio"/> I have reduced the size of my fish meal portions. <input type="radio"/> I have changed the way I prepare locally caught fish before I eat it. <input type="radio"/> I have changed the way I cook locally caught fish before I eat it. <input type="radio"/> I have changed my fishing locations. <input type="radio"/> I have changed the species I fish for because of the Advisory or Warning. <input type="radio"/> Other
<p>How would you like to be informed of any future advisories or notices?</p>	<ul style="list-style-type: none"> <input type="radio"/> Newspaper article <input type="radio"/> Newspaper advertisement <input type="radio"/> Television news broadcast <input type="radio"/> Radio talk shows/news <input type="radio"/> Posted signs and notices in areas that you fish <input type="radio"/> Meetings <input type="radio"/> Family and friends <input type="radio"/> Church announcement/church newspaper <input type="radio"/> Word of mouth <input type="radio"/> Other

Domestic Animals

Script: These questions will help us determine if eating locally raised domestic animals may increase your contact with chemicals.

First for the following questions, domestic animals are defined as locally raised animals that are used as a source of meat (such as cattle or chicken). Also the products of these domesticated animals such as milk or eggs are to be included in this survey

Do you currently eat locally raised domestic animals (of any kind)?	Yes	No	
If yes, what type and how are they used for food?	<p><i>Domestic Animal</i></p> <p><i>Food</i></p> <p><i># meals in last 30 days</i></p> <p><i>Source (see list)</i></p> <hr/> <p>Cattle: Beef Milk* **Organs Chicken: Meat Eggs Organs Goat: Meat Milk* Organs Sheep/Lamb: Meat Milk* Organs Pigs/Boar: Meat Organs Turkey: Meat Eggs Organs Ostrich: Meat Eggs Organs Other: List</p> <p>* Milk and milk products including milk, butter, cheese, yogurt, etc) **Indicate if the milk products are pasteurized.</p> <p>Source List: Where do you usually get the domestic animals that you eat? Do you... (READ LIST. ONE ANSWER ONLY)</p> <ol style="list-style-type: none"> 1. Raise domestic animals yourself or get it from a household member 2. Purchase from a roadside vendor or flea market 3. Purchase from a domestic animal co-op 4. Purchase from a supermarket 5. Purchase from a restaurant 6. Receive from family and friends 7. Other (SPECIFY) 		

Game
Script: Game refers to wild animals such as deer which are hunted and used as a source of food.

Do you currently eat game (of any kind)?	No, NEVER I do not currently eat game, nor have I ever eaten game.	No, PREVIOUS but I have previously eaten game.	Yes
How long have you eaten game? (RECORD IN YEARS)			
Do you hunt or is game given to you to eat?	Yes		No
Where do you hunt? (RECORD LOCATION)			

Check the game you consume and list how often (weekly, monthly, yearly) and the primary place you get the game (READ LIST. ONE ANSWER ONLY):

<i>Game</i>	<i>Frequency</i> <i>(Weekly, Monthly, Yearly)</i>	<i>Source</i> <i>(see list)</i>
Deer		
Rabbit		
Quail		
Duck		
Dove		
Turkeys		
Elk		
Caribou		
Alligator		
Other: List		

Where do you usually get the game that you eat? Do you...

1. Hunt game yourself or get it from a household member
2. Purchase from a roadside vendor or flea market
3. Purchase from a game co-op
4. Purchase from a supermarket
5. Purchase from a restaurant
6. Receive from family and friends
7. Other (SPECIFY)

Confounders/Other Possible Sources of Exposure Questions

Script: For the next set of questions, we will be asking you about other ways or places you may have come in contact with chemicals.

Occupational Questions

Script: Answer the following questions about the kinds of jobs you have had.

What is the name of your current employer (s)?	Job1	Job2	Job3
Which best describes your current employment status?	Employed for wages	Self-employed	Out of work for more than 1 year
	A Homemaker	A Student	Retired
<p>Out of work for less than 1 year</p> <p>Unable to Work</p> <p>At your present work:</p> <p>What best describes the type of work you are doing (at Job 1, Job2, Job3 etc.)?</p> <p>(Note to surveyor: This is an example of an industry or occupation list. It should be edited to only include jobs of interest to your investigation (e.g., jobs that may include chemical use similar to what you are investigating. If you want to include an exhaustive list of occupations or industries, you can use the U.S. Census list found at http://www.census.gov/hhes/www/ioindex/overview.html</p> <p>If you want to narrow the list to jobs or industries with chemical of interest, consider searching “agents” @ http://hazmap.nlm.nih.gov/, then look at processes, industries, and activities with risk of exposure. You can also search it backward when you know a job and it will tell you the hazards associated with that job.)</p>	Animal Control Worker, Animal Scientist, Veterinarian Airport or Aircraft Worker Arts & Media Assemblers & Fabricator Car Repair, Mechanic Chemical Industry Worker (mixer, processor, researcher) Child Care Worker Cleaning homes or offices Construction Crop & Livestock Production Dentist, Dental Hygienist Detective and Criminal Investigator Disabled & stay at home Dry Cleaning Worker Fire Fighter Electrician, Electrical worker Engineering, Sciences & Education Equipment Operator Etcher or Engraver Extractive (e.g., mine machines, drills) Explosives Worker Farmworker Fishing & Hunting Floor Finisher Food Processor Food Service Furniture Finisher Grounds Maintenance Worker Hairdresser, Hair Stylist &/or Cosmetologist Health Care Worker Home Care Taker Installation, Maintenance & Repair Worker Jeweler Logging, Forest & Conservation Worker Machinist Material Moving Metalworking & Plasticworking Miner Miscellaneous Production Worker Manicurist Mortician and Embalmer Office Worker Painter Pest Control Worker Petroleum worker Photo processing, photographer Physician, Anesthesiologists Pilot		

	Police or Sheriff Patrol Officer Printing Worker Retired Roofer Textile, Apparel & Furnishing Worker Utilities & Transportation Worker Welder including soldering & brazing Woodworker Other: List: _____ None					
What is your current job title?	Job1		Job2		Job3	
What are your main job tasks?	Job1		Job2		Job3	
When did you start to work for your current employer(s)? (Note: try to get month and year or at least year) or “current job”)	mm/dd/year					
<i>For the following questions, “contact” means touching, breathing, or eating/ ingesting/swallowing</i>						
Do you have contact with harmful chemicals, physical debris, dusts or mists, or hazardous powders at your current job?	Yes Job1 Job2 Job3		No		DK	
If yes to the above question, please describe the hazard (Surveyor, list the hazards and circle the response).	Solvents	Breathing	Physical	Dusts	Fume	Breathing
		Touching		Gas		Touching
		Swallowing		Liquid		Swallowing
		Other (list)		Mists		Other (list)
	Asbestos		Silica		Lead	
Have you or could you have contact with radiation at your job?	Yes Describe:		No		DK	
Have you or could you have contact with [INSERT CHEMICAL OR COMPOUNDS OF INTEREST] at your job (e.g., lead, asbestos, silica)?	Yes Job1 Job2 Job3 Describe:		No		DK	
Are you required to wear protective equipment at your current job? [if ‘no’ skip to the next section]	Yes			No		
Do you wear protective equipment such as gloves, dust mask or respirator, hood, etc at work?	Always		Sometimes		Never	
What type of equipment was worn?	Gloves	Always	Dust Mask	Always	Respirator	Always
		Sometime		Sometime		Sometime
		Never		Never		Never
	Coverall/Chaperon	Always	Eye Protection	Always	Hood	Always
		Sometime		Sometime		Sometime
		Never		Never		Never
Do you wear your work clothes home?	Always		Sometimes		Never	
Do you wear your work shoes home?	Always		Sometimes		Never	
Do you shower and/or change clothes before coming home from work?	Always		Sometimes		Never	
Have you ever been off work from your current job for more than a day because of an illness or injury related to your work?	Yes Describe: When:			No		

At your past work:	<i>Job</i>	<i>Time Period</i>	Months
What jobs or industries have you worked in the past (Surveyor: insert 1, 2, 5, 10 or other timeframe of interest) year(s)?			Years
			Months
Note when (approximate year or timeframe) and approximately how long (months or years) by each.			Years
			Months
<i>Example: Welding and soldering metals, 1989- Construction, 1987, years</i>			Years
			Months
What is the longest job held? When? How long?			

Have you ever been in the military?	Yes Main Job Tasks: When: How long:	No
Have you ever worked on a farm or done seasonal farm work?	Yes Main Job Tasks: Describe: When: How long:	No
At your past work, have you ever worked at a facility that [INSERT (processed, machined, used)] [INSERT CHEMICAL OR COMPOUND]?	Yes Job Tasks: Describe: Job Title: When: How Long: or Year Began: Year End:	No
Have you ever been off work from a past job for more than a day because of an illness or injury related to your work?	Yes Describe: When:	No
Have you ever changed jobs or work assignments because of work-related health problems or injuries?	Yes Describe: When:	No

Occupational/Take Home Questions

Script: Answer the following questions about the jobs people in or visiting the household have had.

Has anyone in the household worked in [list industry]?	Yes		No	
<i>Surveyor: If more than one person has contact with chemicals, ask these questions for each separately.</i>				
Did that person come home from work without showering?	Always	Sometimes	Never	DK
If they worked in the past: Did that person wear work clothing home after working?	Always	Sometimes	Never	DK
Did that person wear protective equipment such as gloves, dust mask or respirator, hood, etc at work?	Always	Sometimes	Never	DK
Did they wear their work shoes home?	Always	Sometimes	Never	DK
If they are currently working: Does that person wear work clothing home after working?	Always	Sometimes	Never	DK
Do they wear their work shoes home?	Always	Sometimes	Never	DK
Does that person shower before they come home from work?	Always	Sometimes	Never	DK
Does that person wear protective equipment such as gloves, masks, hood, etc at work?	Always	Sometimes	Never	DK

Hobbies Questions

Script: A hobby is considered an activity or interest pursued outside one's regular occupation and engaged in primarily for enjoyment. Answer the following questions about your hobbies and activities at home.

What **hobbies** do you or your household members engage in **AT home**?

(List hobbies (excluding sports). Example: woodworking, stained glass, etc.)

(*Note to surveyor:* If you want to narrow the list to hobbies with chemical of interest, consider searching the tab "ingredients" @ <http://hpd.nlm.nih.gov/index.htm> , then list the chemical and it will provide a list of products that contain it. You can also search "products" and choose "arts and crafts" to display the chemicals associated with the hobby.)

Batik printing
Candle-making
Ceramics making
Dye Use
Electronics
Epoxy Use
Enameling
Fishing gear (making) sinkers, etc
Glassblowing
Home remodeling
Intalagio printing
Jewelry making
Leather crafting
Lithography printing
Lost wax casting
Metal work
Model making
Painting
Preparing, stuffing, and mounting animal skins (taxidermy)
Soap making
Staining
Sculpturing plastics
Sculpturing stone containing crystalline silica, e.g., granite
Stained glass making
Woodworking
None

What **hobbies** do you or your household members engage in **AWAY** from home?

(List hobbies (excluding sports). Example: woodworking, stained glass, etc.)

Batik printing
Candle-making
Ceramics making
Dye Use
Electronics
Epoxy Use
Enameling
Fishing gear (making) sinkers, etc
Glassblowing
Home remodeling
Intalagio printing
Jewelry making
Leather crafting
Lithography printing
Lost wax casting
Metal work
Model making
Painting
Preparing, stuffing, and mounting animal skins (taxidermy)
Soap making
Staining
Sculpturing plastics
Sculpturing stone containing crystalline silica, e.g., granite
Stained glass making
Woodworking
None

Do you burn, solder, or melt any products?	Yes	No
If yes, please describe:		
On average, for the past month, how many days did you use lead solder to join pieces of stained glass?	<input type="radio"/> Never <input type="radio"/> 1-3 days per month <input type="radio"/> 1-2 days per week <input type="radio"/> 3-6 days per week <input type="radio"/> Daily <input type="radio"/> Don't know	
On average, for the past month, how many days did you use lead based oil paint to paint pictures or jewelry?	<input type="radio"/> Never <input type="radio"/> 1-3 days per month <input type="radio"/> 1-2 days per week <input type="radio"/> 3-6 days per week <input type="radio"/> Daily <input type="radio"/> Don't know	
Do you use any alternative healing or cultural practices?	Yes	No
	Describe:	
Household Chemical Uses and House Construction Questions		
<i>Script: To the best of your ability, answer the following questions about the household products you are using and/or that were used in the construction of your home.</i>		
Fuels		
Have you recently (within the past X days) used or been near <u>fuels</u> ?	Yes	No
Is any gasoline, diesel, fuel oils, or kerosene being stored in any room or basement of your home or in an attached garage or carport?	Yes	No
Are any devices with gasoline or diesel engines such as lawn mowers being stored in any room or basement of your home or in an attached garage or carport?	Yes	No
Landscape or Yard Products		
Have you recently (within the last X days or weeks) used any <u>landscape or yard products</u> such as fertilizer, lawn care, swimming pool products, etc?	Yes	No
If so, list the commercial or brand name of those		
Cleaning Products		
Have you recently (within the last X days or weeks) used any <u>cleaning products</u> inside the home? Example: air fresheners, bleach, toilet bowl cleaner, etc	Yes	No
If so, list the commercial or brand name of those.		
Yesterday or INSERT TIMEFRAME , did any activities in the home or elsewhere involve working with or being near stain or spot removers?	Yes	No
If so, list the commercial or brand name of those.		
Auto Products		
Have you recently (within the last X days or weeks) used any <u>auto products</u> such as brake fluid, de-icer, lubricant, sealant, etc?	Yes	No
If so, list the commercial or brand name of those.		
Home Maintenance and Renovations		
Have you recently (within the last X days or weeks) used any <u>home maintenance products</u> such as caulk, grout, insulation, paint, putty stain, etc?	Yes	No

If so, list the commercial or brand name of those.

Are any paints or varnishes being stored in any room or basement or your home or in an attached garage or carport?	Yes		No	
Are any woodworking solvents, paint stripping fluids or adhesives stored in any room or basement of your home or in an attached garage, or carport?	Yes		No	
On average, for the past month, how many days did you paint walls, furniture, cars, or other objects?	<input type="radio"/> Never <input type="radio"/> 1-3 days per month <input type="radio"/> 1-2 days per week <input type="radio"/> 3-6 days per week <input type="radio"/> Daily <input type="radio"/> Don't know			
On average, for the past month, how many days did you use chemical paint strippers?	<input type="radio"/> Never <input type="radio"/> 1-3 days per month <input type="radio"/> 1-2 days per week <input type="radio"/> 3-6 days per week <input type="radio"/> Daily <input type="radio"/> Don't know			
On average, for the past month, how many days did you remove paint by other methods such as scraping, heat gun, or sanding?	<input type="radio"/> Never <input type="radio"/> 1-3 days per month <input type="radio"/> 1-2 days per week <input type="radio"/> 3-6 days per week <input type="radio"/> Daily <input type="radio"/> Don't know			
In the last 6 months or INSERT TIMEFRAME , have you or anyone else renovated your home in any way? This would include indoor painting, refinishing floors, adding rooms to the house or laying new carpet.	Yes		No	
In the last 6 months or INSERT TIMEFRAME , was any indoor painting done?	Yes		No	
In the last 6 months or INSERT TIMEFRAME , have the floors in your home been refinished?	Yes		No	
In the last 6 months or INSERT TIMEFRAME , have you had new carpet installed?	Yes		No	
If you have had new carpet, was glue used or was it tacked down?	Glue	Tacked	Other	DK
In the last 6 months or INSERT TIMEFRAME , were additions constructed to the house or building?	Yes		No	
Pesticides, Herbicides Have you recently (within the last X days or weeks) used any <u>pesticides</u> including animal repellent, fungicide, herbicide, insecticide, etc to get rid of insects, rodents or other pests?	Yes		No	
Was that done:	Inside	Outside	Both	
If so, list the commercial or brand name of those				
How many times in the (<i>insert time period</i>) were pesticides applied by a PROFESSIONAL?	1-2	3-5	6-9	10+
How many times in the last (<i>insert time period</i>) did you PERSONALLY apply pesticides?	1-2	3-5	6-9	10+
In the past month , were any chemicals used to treat this home to control fleas, roaches, ants, termites, or other	Yes		No	DK

insects?							
Pet Products Have you recently (within the last X days or weeks) used any <u>pet care products</u> such as flea & tick control, litter/stain/odor remover?	Yes	No					
If so, list the commercial or brand name of those.							
Arts and Crafts Have you recently (within the last X days or weeks) used any <u>arts and crafts products</u> such as adhesive, glaze, glue, primer, varnish, etc?	Yes	No					
If so, list the commercial or brand name of those.							
Drinking Water Have you had your <u>drinking water</u> tested?	Yes	No	DK				
If so, what did the results show?							
On average, for the past month, how many days did you use lead solder to solder pipes, do electric repairs?	<input type="radio"/> Never <input type="radio"/> 1-3 days per month <input type="radio"/> 1-2 days per week <input type="radio"/> 3-6 days per week <input type="radio"/> Daily <input type="radio"/> Don't know						
Lifestyle Questions							
<i>Script: Sometimes our lifestyle can contribute to an increase or decrease in the chemical levels found our body. Answer the following questions about lifestyle.</i>							
Have you had a meal high in fat (fried fish, hamburgers, etc) in the X days?	Yes	No					
Medicine Questions							
<i>Script: Some medicines may contain small amounts of chemicals and can affect your test results. Please answer the following questions about medicines you are taking.</i>							
Please list the prescription medications you now take.	<hr/> <hr/> <hr/>						
Please list any over the counter medications such as vitamins, supplements (herbal and nutritional), acetaminophen (Tylenol) taken on a daily basis.	<hr/> <hr/> <hr/>						
For medicines you do <u>not</u> take frequently (in the past few days), when was the last time you took that medicine?							
Frequency of Contact Questions							
<i>Script: Script - You may have had contact with chemicals from more than one place. Please answer these questions on where you believe you had the most contact with chemicals. "Contact" means breathing, touching, swallowing/eating/ingesting. "Chemicals" means (dust, paints, glues, cleaning fluids, pesticides, weed killer, etc.)</i>							
Answer the following questions on a scale of 1 to 4, 1 meaning "less" and 4 meaning "more." Where do you believe you have more frequent contact with chemicals?	Work	Less	1	2	3	4	More
	Hobbies		1	2	3	4	
	Home		1	2	3	4	
	Lifestyle		1	2	3	4	
	Foods		1	2	3	4	

Answer the following questions on a scale of 1 to 4, 1 meaning "less" and 4 meaning "more." Where do you believe you have the most amount of contact with chemicals?

Work	<i>Less</i>	1	2	3	4	<i>More</i>
Hobbies		1	2	3	4	
Home		1	2	3	4	
Lifestyle		1	2	3	4	
Foods		1	2	3	4	

Confounders/Other Possible Sources of Exposure Questions Chemical-Specific Set

Food, Drink, Medicines

Script: Sometimes chemicals are naturally found, can accumulate in, or are added to foods. Answer the following questions about food, drinks, or medicines you have had recently.

Arsenic

Have you eaten seafood (finfish, shellfish like oysters, crabs, mussels, lobster, or other like octopus, squid, etc) in the past 3-4 days?	Yes	No
Have you used any herbal supplements or remedies imported from India (containing ayurvedic medicine) or imported from South Asia in the past X days? <i>(Note: Asian herbal remedy Kushtay may contain Ar)</i>	Yes If yes, please list them:	No

Mercury

When was the last time you ate fish?	Days	Weeks	Months
Have you used any herbal supplements or remedies imported from India (containing ayurvedic medicine) or imported from South Asia in the past X days?	Yes If yes, please list them:		No
Do you or your family members use mercury for medicinal or ceremonial purposes?	Yes	No	

PCBs

When was the last time you ate seafood (finfish, shellfish like oysters, crabs, mussels, lobster, or other like octopus, squid, etc)?	Days	Weeks	Months	Years
---	------	-------	--------	-------

PAHs

In the last month, have you eaten any food that was blackened, charred, or roasted through cooking?	Yes		No		
How many servings?	1-2	3-5	6-10	11-19	20+

Fluoride, other Chemicals?

Do you or your family members drink tea?	Yes	No
--	-----	----

Lead

Have you eaten candies produced in Mexico in the past 2 months?	Yes	No
Have you used any herbal supplements or remedies imported from India (containing ayurvedic medicine) or imported from South Asia in the past X days? <i>(Note: Bint al Thahab, some calcium supplements, Chinese herbal medicine, surma)</i>	Yes If yes, please list them:	No

Lifestyle Questions

Script: Sometimes our lifestyle can contribute to an increase or decrease in the chemical levels found in our body. Answer the following questions about lifestyle.

Cadmium

Cadmium is a heavy metal that is found in cigarette smoke, semiconductor manufacturing, welding, battery manufacturing, and metal smelting operations.

Have you or could you have had contact with Cadmium at your job?	Yes	No		
Do you smoke cigarettes now?	Yes	No		
How often do you smoke cigarettes?	Daily	Weekly	Monthly	
How many cigarettes do you smoke per day?	1-5 day	6-10 day	11-20 day	>20
Does anyone smoke cigarettes inside your home including household members and frequent guests?	Yes	No		
How often do household members or guests smoke cigarettes in your home?	Daily	Weekly	Monthly	

PAHs

Do you smoke cigarettes now?	Yes	No
------------------------------	-----	----

How often do you smoke cigarettes?	Daily	Weekly	Monthly
How many cigarettes do you smoke per day?	1-5 day	6-10 day	11-20 day >20
Does anyone smoke cigarettes inside your home including household members and frequent guests?	Yes		No
How often do household members or guests smoke cigarettes in your home?	Daily	Weekly	Monthly

Health Conditions

...may be used for lead, uranium, cadmium

Script: Sometimes a health condition can contribute to an increase or decrease in the chemical levels found in our body. Answer the following questions about your health conditions.

Do you or have you had any of the medical problems below?	Diabetes Kidney disease High Blood Pressure Anemia, from low iron Bone problems or disease (like osteoporosis or "brittle bones") Chronic Respiratory Illness such as Asthma and Chronic Obstructive Pulmonary Disease (COPD)		
If yes, give details			
Are there times when your condition gets worse? (e.g., night, day weekend, weekday)	When?	Yes	No
Are there any places when your conditions get worse? (e.g., home, work, school)	When?	Yes	No
Are there any seasons when your conditions get worse? (e.g., spring, summer, fall, winter)	When?	Yes	No