



German Environmental Survey for Adults

Note: This document specifies the content and wording of the interview. As this is a CAPI interview (computer-assisted personal interview), layout divergences may occur for technical reasons.

PM_{2.5} Fine Dust - Part II: Documentation and Implementation

IDNO of participant	
Date of interview	. .20
UBA employee ID (AP or TN)	

Questions with a coloured background and in **blue font**: the questions in **blue font** and in the fields with a **grey background** are addressed to the interviewer and are not read out to the respondent.

Questions in black and without a colour background are to be read out to the respondent

Documentation of contact with the participant(s)

The first contact is always by telephone. Up to 5 contact attempts on different days and at different times of the day (up to max. 20:00 or 8pm) are to be made by UBA before an address is documented as a "failure".

A callback by telephone or e-mail from the participant is recorded as the xth contact. Several contact fields are therefore provided.

1st contact	Contact type		Outcome and/or appointment made	
	Phone	@		
	Engaged	Not reached	Left TAD/voicemail message	Reached
				E-mail
Date: on □□.□□.□□	Time: at □□:□□	□ □ □ □ /	No	on
			□ □□.□□.□□	at □□:□□
			Another outcome, please specify: _____	

2nd contact	□□.□□.□□	□□:□□	□ □ □ □ □	□ □□.□□.□□ □□:□□
			Another outcome, please specify: _____	

3rd contact	□□.□□.□□	□□:□□	□ □ □ □ □	□ □□.□□.□□ □□:□□
			Another outcome, please specify: _____	

4th contact	□□.□□.□□	□□:□□	□ □ □ □ □	□ □□.□□.□□ □□:□□
			Another outcome, please specify: _____	

5th contact	□□.□□.□□	□□:□□	□ □ □ □ □	□ □□.□□.□□ □□:□□
			Another outcome, please specify: _____	

6th contact	Contact type Phone @	Outcome and/or appointment made
Date: on Time: at	Engaged Not reached Left TAD/voicemail message Reached E-mail	No on at
. . :	☐ ☐ ☐ ☐ ☐	☐ . . : Another outcome, please specify: _____

7th contact . . :	☐ ☐ ☐ ☐ ☐	☐ . . : Another outcome, please specify: _____
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8th contact . . :	☐ ☐ ☐ ☐ ☐	☐ . . : Another outcome, please specify: _____
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Installation – Indoor Air Sampling Device

To UBA interviewer: stationary sampling takes place in the living room of the household and in the vicinity of the home (if possible, directly in front of the living room).

Start of fine dust sampling: please go into the living room and have the following materials ready:

- Indoor PM_{2.5} fine dust sampling unit
- Outdoor PM_{2.5} fine dust sampling unit
- 2 fibreglass filters
- Tweezers
- Extension cable, distributor/multiple socket outlet
- Information sheet on fine dust sampling

Was a PM_{2.5} sampling unit set up indoors?

FD01. To UBA interviewer: if there are multiple reasons for not being able to set up the sampling unit, please record the most important reason.

No ☐ Reason:

a) No suitable place found for installation

☐

☞ No sampling, end

b) Confined living conditions, unreasonable.....

☐

☞ No sampling, end

c) Household appears unable to follow the sampling instructions (do not disconnect the unit from the power supply! Do not move the unit!).

☐

☞ No sampling, end

e) Household refuses installation

☐

f) Other reason, please specify:

☐

☞ No sampling, end

Yes ☐

FD02. Please note the sampling start date and time.

		Date						Time			
on			20			at			:		
	Day	Month		Year			Hour	Minute			

Living Room Features - Indoor Air Sampling Unit

FD03. Does the living room have **windows facing a street?**

Yes ☐

No ☐

☞ Continue with question FD05

FD04. How **busy** is the street in front of this window?

To UBA interviewer: If there are windows facing several streets, the UBA interviewer will determine the street with the heaviest traffic.

Please give an assessment at the time of the home visit.

Not very busy

Moderately busy

Busy

Extremely busy

☐
☐
☐
☐

FD05. How many **square metres** does the living room measure? If you do not know exactly, please estimate.

To UBA interviewer: please round off the participant's figure to the nearest whole number and enter it in m².

 m²

don't know ☐

declined to respond ☐

FD06. What is the **ceiling height** of the living room?

To interviewer: this refers to the clearance in a room, i.e. between the upper edge of the floor and the lower edge of the ceiling. *Source: GerES I - V*

 cm

don't know ☐

declined to respond ☐

FD07. Is there a **sloped ceiling** in the living room? *Source: new question*

Yes ☐

No ☐

don't know ☐

declined to respond ☐

FD08. On which **floor** is the living room located?

To interviewer: only one response possible. If the living room is directly under the roof, tick "attic/top floor".

Internal note: sequence of response options has also been changed for FD15

Basement

☐

Ground floor

☐

Storey

Attic/top floor

☐

declined to respond ☐

Installation - Outdoor Air Sampling Unit	
Was a PM_{2.5} sampling unit set up outdoors? FD09. <u>To UBA interviewer:</u> if there are multiple reasons for not being able to set up the sampling unit, please record the most important reason. No ☐ Reason: a) No suitable place found for installation b) Constrained conditions, unreasonable... c) Household seems unable to follow the sampling instructions (Do not disconnect the unit from the power supply! Do not move the unit!). e) Household refuses installation f) Other reason, please specify: _____ ☐ ➡ No sampling, end ☐ ➡ No sampling, end ☐ ➡ No sampling, end ☐ ➡ No sampling, end ☐ ➡ No sampling, end Yes ☐	
FD10. Please note the sampling start date and time. Date on 20 Day Month Year at Hour Minute	

Features of Measurement Site - Outdoor Air Sampling Unit	
FD11.	Is the measurement site sheltered from the wind? <u>To UBA interviewer:</u> ask household, if necessary, if you cannot assess this yourself. Yes ☐ No ☐
FD12.	Is the outdoor air measurement site in front of the living room where indoor air sampling is taking place? No ☐ Yes ☐ ➡ Continue with question FD15
FD13.	Is there a street in the immediate vicinity of the outdoor air measurement site (i.e. at a distance of max. 100 m)? Yes, the same street on to which the living room windows face, which is indicated in question FD04 ☐ ➡ Continue with question FD15 Yes, another street..... ☐ No ☐ ➡ Continue with question FD15
FD14.	How busy is this street in front of the outdoor air measurement site? <u>To UBA interviewer:</u> if there are several streets, the UBA interviewer will determine the street with the heaviest traffic. Please provide an assessment at the time of the home visit. Not very busy ☐ Moderately busy ☐ Busy ☐ Extremely busy ☐
FD15.	On which floor is the outdoor air measurement site located? Basement ☐ Ground floor ☐ Storey Attic/top floor ☐

Completion of Installation of the Two Units

FD16. Please arrange an **appointment** with the household to **collect** the fine dust sampling equipment. Note the date on the information sheet and hand the completed information sheet to the participant.

If possible, the collection date should be on the same weekday as the installation date.

Date Time

on 20 at :

Day Month Year Hour Minute

FD17. Have you noted the collection date on the information sheet?

No ☐ → Please rectify Yes ☐

FD18. Have you given the information sheet to the respondent?

No ☐ → Please rectify Yes ☐

Collection - Indoor Air Sampling Unit			
To UBA interviewer: 1. On the agreed collection date about a week later, reaccess the "Fine Dust" programme section to document collection of the fine dust sampling equipment. To do this, the programme starts on the exact page where you paused Fine Dust Sampling. 2. Select "Fine Dust Continuation" to continue. Start collecting the fine dust sampling equipment: please go to the living room and have the following materials ready: - Petri dish and Petri dish holder - Tweezers - List booklet To complete collection of the PM_{2.5} sampling unit, press the inside middle grey pushbutton and read the time when sampling ended and the volume of air that has passed through in the display (please note the reading in "L" and not the one in "NL"). Then open the sampling head, remove the filter from its holder with tweezers and note the filter number. Then place the filter in a Petri dish secured in a transportation fixture. The stop time, the filter volume and the filter number should be entered in the documentation sheet.			
FD19. Please note the time when indoor air sampling ended. Date on 20 Day Month Year Time at Hour Minute			
FD20. Please enter the air volume in litres. Note the specification in "L". L			
FD21. Please enter the filter number. G			
FD22. Was the indoor air PM_{2.5} unit still in operation at the time of collection? Yes ☐ No, it switched <u>itself</u> off ☐ No, a <u>household member</u> switched it off ☐ Reason: a) It was too loud b) It took up too much space..... c) Worry that the unit could be damaged d) Other reason, please specify: _____ ☐ ☐ ☐ ☐ don't know ☐ declined to respond ☐			
FD23. How long was the sampling period, i.e. how long was the PM_{2.5} sampling unit in operation in total? Hours Minutes			
FD24. Did household members move the unit during sampling? No ☐ Yes ☐ Reason: a) It was too loud b) It took up too much space c) Worry that the unit could be damaged d) Other reason, please specify: _____ ☐ ☐ ☐ ☐ don't know ☐ declined to respond ☐			

Collection - Outdoor Air Sampling Unit									
FD25. When collecting the outdoor PM _{2.5} fine dust sampling unit, please proceed in the same way as for the indoor PM _{2.5} fine dust sampling unit. Please note the time when outdoor air sampling ended .									
Date at 20 Day Month Year Time at Hour Minute									
FD26. Please enter the air volume in litres. Note the specification in "L". L									
FD27. Please enter the filter number. G									
FD28. Was the outdoor air PM _{2.5} unit still in operation at the time of collection?									
Yes ☐									
No, it had switched <u>itself</u> off ☐									
No, a <u>household member</u> switched it off ... ☐									
Reason: a) It was too loud b) It took up too much space c) Fear that the unit could be damaged..... d) Other reason, please specify: _____ ☐ ☐ ☐ ☐ don't know ☐ declined to respond ☐									
FD29. How long was the sampling period , i.e. how long was the PM _{2.5} sampling unit in operation in total?									
 Hours Minutes									
FD30. Did household members move the unit during sampling?									
No ☐									
Yes ☐ Reason: a) It was too loud ☐ b) It took up too much space ☐ c) Worry that the unit could be damaged ☐ d) Other reason, please specify: _____ ☐									
don't know ☐ declined to respond ☐									

Interview on Activities during Sampling

Finally, I have a few questions about activities in your household and what happened in the living room while the unit was in operation.

To UBA interviewer: present list F31 and leave until question F46.

First, please tell me...	Daily	About every 2 days	About twice during the sampling period	About once during the sampling period	Not at all
FD31. How often did people spend time in the living room?	☐	☐	☐	☐	☐
FD32. How often was tilt ventilation used?	☐	☐	☐	☐	☐
FD33. How often was shock ventilation used?	☐	☐	☐	☐	☐
FD34. How often were candles lit?	☐	☐	☐	☐	☐
FD35. Is there a fireplace? No ☐					
FD36. Yes ☐ How often was the chimney in operation? ..	☐	☐	☐	☐	☐
FD37. Is there a gas cooker in the living room (e.g. in a kitchenette)? No ☐					
FD38. Yes ☐ How often was the cooker in operation?	☐	☐	☐	☐	☐
FD39. Is there an electric cooker in the living room (e.g. in a kitchenette)? No ☐					
FD40. Yes ☐ How often was the cooker in operation?	☐	☐	☐	☐	☐
FD41. How often was dust vacuumed?	☐	☐	☐	☐	☐
FD42. How often was dust wiped with a dry cloth or feather duster?	☐	☐	☐	☐	☐
FD43. How often were chip-generating DIY activities, such as sawing, grinding or drilling etc., undertaken?	☐	☐	☐	☐	☐
FD44. How often was a laser printer in operation?	☐	☐	☐	☐	☐
FD45. How often was a 3D printer in operation?	☐	☐	☐	☐	☐
don't know ☐					
declined to respond ☐					

Is also an option with every item
Is also an option with every item

-end of documentation-