



The German Longitudinal Environmental Study (GLEN)

Codebook Inter-Wave Survey 2025a
Survey mode: CAWI
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Preface

Notation

The following information is included for each question:

- Variable name
- Question text and, if applicable, instructions for completion
- Response format; at the end of the question, special features in the answer format are noted, for example, mandatory responses, permitted value ranges for open entries and dropdown menus
- Filters, including splits

Question display

The presentation of questions in the codebook is not identical to the respondents' view of the questionnaire. All questions were programmed with responsive design, meaning that scales are displayed differently on large and small screens. On large screens, most scales are displayed horizontally, while on small screens (for example, smartphones) they appear vertically. Item batteries are split into single items on small screens with answer scales displayed vertically. For an impression of the questionnaire layout, please refer to the screenshots.

Experiments

The assignment to the experimental groups (splits) within the survey experiments was randomized during the survey.

- **Content split on climate change scepticism (content_split1):** 25% of respondents (split 1a; content_split1 = 1) were asked questions about climate change scepticism (att4), while 75% (split 1b; content_split1 = 2) were asked questions about their online behavior (web3, web4, web5).
- **Content split on carbon pricing (content_split2):** 90% of respondents (split 1a; content_split2 = 1) received questions on carbon pricing (vig2q1, vig2q2, vig2q3, pol14 – pol17), while 10% (split 1b; content_split2 = 2) were asked questions about cultural programs and locus of control (lsr3 - pys7).
- **Vignette study on carbon pricing (vig2q1–vig2q3):**
Questions vig2q1 to vig2q3 contain a factorial vignette experiment in which different designs of carbon pricing policies were varied. In addition, information treatments were experimentally shown or withheld. The outcomes measured were perceived fairness, perceived effectiveness, and overall support for the respective policy. The experiment is documented in a dedicated technical report: Wolter, F., Auspurg, K. & Diekmann, A. (2026). Public Support for Different CO₂ Pricing Policies: A Factorial Survey Experiment in the German Longitudinal Environmental Study (GLEN). GLEN Technical Report No. 3.

Codebook

Welcome to the study "Quality of Life and Environment"!

Thank you for sharing your opinions and experiences with us once again.

You will receive a thank-you gift at the end of the survey to make it worth your while!

Information on data protection can be found here [\[link to the LUM data protection page\]](#). For answers to frequently asked questions (FAQ), please click here [\[link to the LUM FAQ page\]](#).

We thank you very much for your support!

1. val2

Concerning where you live, how important are the following things to your quality of life?

- | | | |
|----------------------------|---|----------------------------|
| val2i1 | Good neighborly relations | |
| val2i2 | Short distances, for example, to shopping facilities | |
| val2i3 | Good Internet connection | |
| val2i4 | Plenty of space, for example, large apartment, garden | |
| val2i5 | Wide range of free time activities | |
| Not important at all | | ☐ 1 |
| Not important | | ☐ 2 |
| Neutral | | ☐ 3 |
| Quite important | | ☐ 4 |
| Very important | | ☐ 5 |

2. lsr1

How often have you engaged in the following activities during your free time in the past 4 weeks?

- | | | |
|-----------------------------|--|----------------------------|
| lsr1i8 | Meeting friends | |
| lsr1i9 | Relaxing, doing nothing | |
| lsr1i3 | Watching TV, movies, series, or videos | |
| lsr1i10 | Indoor sports, exercise | |
| lsr1i11 | Outdoor sports, exercise | |
| lsr1i12 | Other outdoor activities, e.g., walking, gardening | |
| (Almost) daily | | ☐ 1 |
| Several times a week | | ☐ 2 |
| Once a week | | ☐ 3 |
| Several times a month | | ☐ 4 |
| Less often | | ☐ 5 |
| (Almost) never | | ☐ 6 |

3. job1

Are you currently employed?

Yes ☐ 1

No ☐ 0

4. job2

How true are the following statements for you?

job2i1 My work involves strenuous physical labor.

job2i2 I often feel exhausted from work.

job2i3 My occupation provides me with interesting tasks.

job2i4 I work mainly outdoors in the summer.

Not true at all ☐ 1

Not true ☐ 2

Neutral ☐ 3

True ☐ 4

Completely true ☐ 5

Filter: If employed (job1=1)

5. att4

There are currently many different views on climate change. We are interested in hearing your personal opinion on this topic.

To what extent do you agree with the following statements?

- att4i1 The evidence for climate change is unreliable.
- att4i2 Climate change is just a natural fluctuation in the earth's temperatures.
- att4i3 Too much fuss is made about climate change.
- att4i4 Trying to solve climate change is a waste of time.

[Screen 2:] And now back to the same topic.

To what extent do you agree with the following statements?

- att4i6 I am uncertain about whether climate change is really happening.
- att4i7 Claims that human activities are changing the climate are exaggerated.
- att4i8 It is too early to say whether climate change is really a problem.
- att4i9 Human behavior has little effect on climate change.

[Screen 3:] And to what extent do you agree with the following statements?

- att4i10 There is too much conflicting evidence about climate change to know whether it is actually happening.
- att4i11 Many leading experts still question if human activity is contributing to climate change.
- att4i12 The media is often too alarmist about issues like climate change.
- att4i13 There is not much we can do that will help solve climate change.

- Strongly disagree ☐ 1
- Disagree ☐ 2
- Neutral ☐ 3
- Agree ☐ 4
- Strongly agree ☐ 5

Filter: Only respondents with split 1a (content_split1 = 1)

Items 10 to 13 are only displayed if not N/A for all items 1 to 9. (att4i1 - att4i9 ≠ -2)

PLEASE NOTE

Split 1:

25% of respondents (split 1a; content_split1 = 1) were asked questions about climate change scepticism (att4), while 75% (split 1b; content_split1 = 2) were asked questions about their online behavior (web3, web4, web5).

6. web3

Let's talk about the Internet.

Have you used the Internet for any of the following activities in the last 4 weeks?

Please indicate all that apply.

- web3i1 Listening to music, watch videos
- web3i2 Buying or selling products
- web3i3 Using AI platforms (for example, ChatGPT, Deepseek, Gemini)
- web3i4 Reading or listening to news (for example, daily newspaper, podcasts)
- web3i5 Searching for information
- web3i6 Taking care of administrative matters, for example, applying for a passport, filing a tax return
- web3i7 None of the above

Mentioned ☐ 1

Not mentioned ☐ 0

Filter: Only respondents with split 1b (content_split1 = 2)

Response format: web3i7 cannot be combined with other responses

7. web4

To what extent do you agree with the following statements?

- web4i1 I prefer meeting people online rather than in person.
- web4i2 Without the Internet, I would feel lonely.
- web4i3 I often spend too much time on the Internet.

Strongly disagree ☐ 1

Disagree ☐ 2

Neutral ☐ 3

Agree ☐ 4

Strongly agree ☐ 5

Filter: Only respondents with split 1b (content_split1 = 2)

8. web5

How much do you trust the people you communicate with on the Internet but have never met in person?

Don't trust at all 0 1 2 3 4 5 6 7 8 9 10 Trust completely

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Does not apply ☐ -1

Filter: Only respondents with split 1b (content_split1 = 2)

9. ewe3

The following questions concern the summer of 2025.

In general, how did you personally feel about the temperatures in your place of residence this summer?

- Very cold ☐ 1
Rather cold ☐ 2
Somewhat cool, somewhat warm ☐ 3
Rather hot ☐ 4
Very hot ☐ 5

10. ewe4

In the summer of 2025, did you feel physically strained due to daytime temperatures?

Please refer to the place you lived at that time.

- Not at all ☐ 1
Slightly ☐ 2
Neutral ☐ 3
Quite ☐ 4
Very ☐ 5

11. ewe5

Did you sleep poorly at night due to the temperatures in the summer of 2025?

Please refer to the place you lived at that time.

- (Almost) always ☐ 1
Often ☐ 2
Sometimes ☐ 3
Rarely ☐ 4
(Almost) never ☐ 5

I slept poorly, but not due to the temperature. ☐ -1

12. ewe6

Did anyone in your family or circle of friends experience health problems due to the temperatures in the summer of 2025?

- Yes ☐ 1
No ☐ 0

Don't know ☐ -1

13. ewe2

Now we are interested in your attitude towards extreme weather events. To what extent do you agree with the following statements?

ewe2i1 I often think about extreme weather events.

ewe2i2 I feel worried when I think about extreme weather events.

- Strongly disagree ☐ 1
Disagree ☐ 2
Neutral ☐ 3
Agree ☐ 4
Strongly agree ☐ 5

PLEASE NOTE

Split 2:

90% of respondents (split 2a; content_split2 = 1) received questions on carbon pricing (vig2q1, vig2q2, vig2q3, pol14 - pol17), while 10% (split 2b; content_split2 = 2) were asked questions about cultural programs and locus of control (lsr3 - pys7).

14. vig2q1

The following section deals with the carbon price set by politicians and added to every liter of fuel, natural gas, and heating oil that is purchased. The aim is to reduce carbon emissions and limit climate change.

The government revenue from the carbon price could be refunded to all residents of Germany as an annual relief payment. Those who use less fuel, natural gas, and heating oil than the average resident could be reimbursed more than they initially paid toward the carbon price.

To illustrate the effects of such a carbon price, we will present you with a hypothetical example. This example refers to carbon emissions for heating and personal vehicles only. We are interested in your personal opinion.

[Screen 2:] Please evaluate the following example:

Mr. Schmidt has a monthly net income of €7.000.

He generates average carbon emissions from driving and heating. The carbon price would result in monthly costs of €100.

Mr. Schmidt could most effectively reduce his carbon emissions and thus his costs by investing several thousand euros in a more economical heating system.

At the end of the year, every resident of Germany receives a fixed amount of €1.200 as relief for the carbon price. This relief would completely offset Mr. Schmidt's monthly carbon costs.

How fair do you find the monthly carbon price of €100 that Mr. Schmidt would need to pay for the carbon emissions generated by his heating and personal vehicle?

Please give your opinion using numbers between +3 (unfairly high) and -3 (unfairly low).

- | | |
|------------------------|-----------------------------|
| +3 Unfairly high | ☐ 1 |
| +2 | ☐ 2 |
| +1 | ☐ 3 |
| 0 Fair | ☐ 4 |
| -1 | ☐ 5 |
| -2 | ☐ 6 |
| -3 Unfairly low | ☐ 7 |
| Don't know | ☐ -1 |

Filter: Only respondents with split 2b (content_split2 = 1)

PLEASE NOTE

Vignette study on carbon pricing:

Questions vig2q1 to vig2q3 contain a factorial vignette experiment in which different designs of carbon pricing policies were varied. In addition, information treatments were experimentally shown or withheld. The outcomes measured were perceived fairness, perceived effectiveness, and overall support for the respective policy. The experiment is documented in a dedicated technical report: Wolter, F., Auspurg, K. & Diekmann, A. (2026). Public Support for Different CO₂ Pricing Policies: A Factorial Survey Experiment in the German Longitudinal Environmental Study (GLEN). GLEN Technical Report No. 3.

15. vig2q2

Repetition of example: [Example vignette from vig2q1 is displayed once again]
How likely is it that, under these conditions, Mr. Schmidt will reduce his carbon emissions?

- Not at all likely ☐ 1
- Rather not likely ☐ 2
- Neither, nor ☐ 3
- Rather likely ☐ 4
- Very likely ☐ 5

- Don't know ☐ -1

Filter: Only respondents with split 2b (content_split2 = 1)

16. vig2q3

Repetition of example: [Example vignette from vig2q1 is displayed once again]
Are you generally for or against the carbon pricing regulation described in the example?

Reminder: Example vig2q1 is displayed

- Strongly against ☐ 1
- Rather against ☐ 2
- Neither, nor ☐ 3
- Rather in favor ☐ 4
- Strongly in favor ☐ 5

- Don't know ☐ -1

Filter: Only respondents with split 2a (content_split2 = 1)

17. pol14

We would like to ask you some questions about a possible increase in the carbon price in Germany. How well are you informed about the current carbon pricing regulations?

- | | |
|-----------------------------|-----------------------------|
| Completely uninformed | ☐ 1 |
| Somewhat informed | ☐ 2 |
| Neutral | ☐ 3 |
| Well informed | ☐ 4 |
| Very well informed | ☐ 5 |
| Don't know | ☐ -1 |

Filter: Only respondents with split 2a (content_split2 = 1)

18. pol15

In your opinion, would an increase in the carbon price be effective in reducing carbon emissions?

- | | |
|----------------------------|-----------------------------|
| Not effective at all | ☐ 1 |
| Not very effective | ☐ 2 |
| Neutral | ☐ 3 |
| Effective | ☐ 4 |
| Very effective | ☐ 5 |
| Don't know | ☐ -1 |

Filter: Only respondents with split 2a (content_split2 = 1)

19. pol16

When you consider the entire population, how many people in Germany do you think are in favor of increasing the price of the carbon price?

- | | |
|--|-----------------------------|
| Almost no one | ☐ 1 |
| Less than half of the population | ☐ 2 |
| Half the population | ☐ 3 |
| More than half the population | ☐ 4 |
| Almost everyone | ☐ 5 |
| Don't know | ☐ -1 |

Filter: Only respondents with split 2a (content_split2 = 1)

20. pol17

In your opinion, what should be done with the government revenue from the carbon price?

- pol17i1 Payment as a fixed amount per person to all residents in Germany
- pol17i2 Payment to low-income households
- pol17i3 Reduction of electricity prices
- pol17i4 Promotion of climate protection projects
- pol17i5 Promotion of protective measures against extreme weather events
- pol17i6 Use for the general government budget

- Strongly opposed ☐ 1
- Somewhat opposed ☐ 2
- Neutral ☐ 3
- Somewhat in favor ☐ 4
- Strongly in favor ☐ 5
- Don't know ☐ -1

Filter: Only respondents with split 2a (content_split2 = 1)

21. lsr3

Now let's turn to recreational activities and cultural programs.

To what extent do you agree with the following statements?

- lsr3i1 I don't have enough free time to do everything I want to do.
- lsr3i2 It's important to me to use my free time wisely.
- lsr3i3 I enjoy not having to do anything in my free time.
- lsr3i4 Many cultural programs are not intended for people like me.
- lsr3i5 I cannot afford to participate in many events.
- lsr3i6 Too much free time can also lead to boredom.

- Strongly disagree ☐ 1
- Disagree ☐ 2
- Neutral ☐ 3
- Agree ☐ 4
- Strongly agree ☐ 5

Filter: Only respondents with split 2b (content_split2 = 2)

22. lsr4

Which of the following events have you attended in the last 4 weeks?

- lsr4i1 Cinema
- lsr4i2 Art exhibitions
- lsr4i3 Classical music concerts
- lsr4i4 Pop or rock concerts by international stars or well-known artists
- lsr4i5 Pop or rock concerts by local or lesser-known artists
- lsr4i6 Other cultural events with an admission fee
- lsr4i7 Other cultural events without an admission fee
- lsr4i8 City festivals, folk festivals, or similar events
- lsr4i9 Sporting events (as a spectator)
- lsr4i10 None of the above

Mentioned ☐ 1
Not mentioned ☐ 0

Filter: Only respondents with split 2b (content_split2 = 2)

23. lsr5

How much do you support or oppose the following services being financed by public funds?

- lsr5i1 Classical music concerts
- lsr5i2 Concerts by local or lesser-known artists
- lsr5i3 Art exhibitions
- lsr5i4 The production of films by directors from Germany
- lsr5i5 Adult education centers
- lsr5i6 Swimming pools

Strongly opposed ☐ 1
Somewhat opposed ☐ 2
Neutral ☐ 3
Somewhat in favor ☐ 4
Strongly in favor ☐ 5

Don't know ☐ -1

Filter: Only respondents with split 2b (content_split2 = 2)

24. lsr6

In your opinion, which of the following groups of people should receive discounts on cultural programs?
Please select all that apply.

- lsr6i1 Senior citizens
- lsr6i2 Children and teens
- lsr6i3 Students
- lsr6i4 Trainees
- lsr6i5 Low-income individuals
- lsr6i6 Unemployed individuals
- lsr6i7 Everyone, regardless of their personal life
- lsr6i8 None of these groups

Mentioned ☐ 1
Not mentioned ☐ 0

Filter: Only respondents with split 2b (content_split2 = 2)

25. psy7

Let's focus on your personal beliefs. How true are the following statements for you personally?

- psy7i1 I am my own boss.
- psy7i2 If I work hard, I will succeed.
- psy7i3 Whether at work or in my private life: What I do is mainly determined by others.
- psy7i4 Fate often gets in the way of my plans.

Not true at all ☐ 1
Not true ☐ 2
Neutral ☐ 3
True ☐ 4
Completely true ☐ 5

Filter: Only respondents with split 2b (content_split2 = 2)

26. surv3

Finally, we would like to know which topics you are interested in:
How much do you enjoy answering questions on the following topics?

- surv3i1 Health and well-being
- surv3i2 Everyday life
- surv3i3 Nature and the environment
- surv3i4 Politics
- surv3i5 Climate change
- surv3i6 Free time and recreation

- Not at all ☐ 1
- Not very much ☐ 2
- Somewhat ☐ 3
- Quite a lot ☐ 4
- Very much ☐ 5

27. surv1

How did you like the survey?
The questionnaire was ...

- surv1i1 Interesting
- surv1i2 Long
- surv1i3 Difficult

- Strongly disagree ☐ 1
- Disagree ☐ 2
- Neutral ☐ 3
- Agree ☐ 4
- Strongly agree ☐ 5

28. surv2

Is there anything else you would like to add?

29. newad1

If your contact details have changed since the last survey, or will change soon, you can note this here.

It is important to the study to collect information on your current address. The place you live is a relevant piece of information for several questions in our study.

New residential address

Street, house number: _____

Postal code, city: _____

Valid from: _____

No change ☐ 0

New e-mail address:

- Please send an e-mail from your new e-mail address to umfrage@lum-studie.de.

- **Important:** Please state your previous e-mail address or your name in the e-mail, to enable us to update your data.

30. incent1

We sincerely thank you for your participation.

How would you like to receive a thank-you gift?

You can make this choice again in every survey.

Please read the information carefully before proceeding.

3 euro transfer

Bank transfer to your account (IBAN)

(To make the transfer, you will need to provide your account details. We can only transfer to accounts held at German banks). ☐ 1

3 euro voucher

Amazon (redeemable online at www.amazon.de only) ☐ 2

REWE supermarket (redeemable in-store only) ☐ 4

3 euro donation to a non-profit organization

(without an individual donation receipt)

Aktion Deutschland Hilft e.V. ☐ 5

Deutsche Welthungerhilfe e.V. ☐ 6

Filter: If taken recruitment survey online

Are you sure that you do not want to receive a thank-you gift?

If you would like to correct your entry, click „Back“. Otherwise, click „Next“.

Filter: If no incentive selected (incent1 = -2)

Thank you very much for your donation!

We will transfer the donated amounts of all participants collectively at the end of the month.

A confirmation of the donation will be published on our website. Please note that we cannot issue individual donation confirmations.

What happens next?

We will contact you again in spring 2025 and invite you to a short survey. We would be delighted if you would participate again.

You can now close this window.

Filter: If donation of the incentive selected (incent1 = 5|6)

[if REWE voucher selected:

Please download your REWE voucher (PDF file) using the button below.

Open voucher]

[if Amazon voucher selected:

Below you will find your Amazon voucher code worth 3 euro.

Please save this code so that you can use it for your next purchase on Amazon.

Your Amazon voucher code:

VoucherAMAZON5]

Thank you very much for participating in the survey!

What happens next?

We will contact you again in spring 2025 and invite you to a short follow-up survey. We would be delighted if you would participate again.

You may now close this window.

Filter: If voucher selected (incent1 = [2;4])

31. incent2

Please enter the account details where you would like us to transfer a 3 euro thank-you gift.

After entering your IBAN, you can check the BIC and the name of your bank using the „Test IBAN“ button. Confirm your entry by clicking „Next“.

Please note:

- Transfers are only possible to bank accounts in Germany.
- The data transfer is conducted via a secure connection. Your account details are stored separately from the survey data, so no link to your survey responses can be made.
- The bank transfer is carried out by Novalnet AG (<https://www.novalnet.de>). Your name and account details will be provided to Novalnet AG for the purpose of processing the transfer.
- It may take up to three weeks for the transfer to be completed.

Account holder (Last name, First name): _____

IBAN: _____

Your bank's name and BIC will be displayed for verification after entering a valid IBAN and clicking on „Test IBAN“. Depending on the branch, the last 3 digits of the BIC may vary.

Bank name: _____

BIC: _____

Filter: If bank transfer of the incentive was selected (incent1 = 1)

Thank you very much for participating in this survey!

What happens next?

We look forward to welcoming you back for our next survey. You can now close the window.

Filter: If transfer or no incentive selected (intmode = 1 & incent1 = 1|-2)