

Appendix

Appendix A

Questionnaire used for the visitor survey (English translation). Footnotes denote items used in studies prior to the current survey.

How much do you like this forest?

Dear Participant

Thank you for taking the time to complete this questionnaire. We would like to know which forest people like best. It will take you only about 5–10 minutes to fill in the questionnaire.

- 1. How long did it take you to get from home or some other starting point (e.g. your workplace) to this forest?^b**

_____ minutes

- 2. Is this the forest you visit most often?^b**

☐ yes

☐ no

- 3. How often do you normally come to this forest outside holiday time?^{b, c, d}**

	Hardly ever	Less than once a month	1–3 times a month	1–2 times a week	3–7 times a week
In spring, summer, autumn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In winter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- 4. How often do you visit this forest per year?^{d, e}**

_____ times

5. Please follow our instructions and look in the direction requested. How much do you like the forest on a scale from 1 to 10?^{b, c, d}

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1	2	3	4	5	6	7	8	9	10
Not at all									Very much

6. Which kinds of forest do you generally prefer (irrespective of the forest you are looking at now)?

Forests with	Does not prefer at all	Hardly prefer	Undecided	Rather prefer	Strongly prefer
Predominantly conifers ^{a, c, d}	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Predominantly deciduous trees ^{a, c, d}	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conifers and deciduous trees mixed ^{a, d}	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Many bushes/shrubs and young trees ^{a, c, d}	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Many branches and piles of branches on the ground ^{a, c, d}	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Many fallen trees ^{c, d}	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Many leaves on the ground ^f	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6b. What else do you like about forests, what not?

Forests with	Do not prefer at all	Hardly prefer	Undecided	Rather prefer	Strongly prefer
Many needles on the ground ^f	0	0	0	0	0
Ground covered with vegetation ^d	0	0	0	0	0
Moss on stones and trees ^{d, f}	0	0	0	0	0
Ivy on the trees ^d	0	0	0	0	0
Ferns ^d	0	0	0	0	0
Lichens on the trees	0	0	0	0	0
High visibility/when you can see far into the forest ^g	0	0	0	0	0

7. Why do you go to the forest? How strongly do the following statements apply on a scale of 1–5?

	1 Does not apply at all	2	3	4	5 Fully applies
To enjoy peace and quiet ^d	0	0	0	0	0
To have fun ^a	0	0	0	0	0
To spend time with my family ^{b, d}	0	0	0	0	0
To experience nature ^{a, d}	0	0	0	0	0
To meet my friends ^{b, d}	0	0	0	0	0
In order to be unobserved ^{d, i}	0	0	0	0	0
To do sports ^a	0	0	0	0	0
For health reasons ^a	0	0	0	0	0
To walk the dog ^j	0	0	0	0	0

8. Are there things you dislike about the forest (on a scale of 1–5)?

	1 Does not apply at all	2	3	4	5 Fully applies
I dislike mosquitoes, ticks and other creepy- crawlies ^{d, k}	0	0	0	0	0
In the forest I sometimes meet weird people ^{d, h, k}	0	0	0	0	0
I am afraid of poisonous plants ^{d, k, l}	0	0	0	0	0
I am afraid of unleashed dogs ^{d, k,}	0	0	0	0	0
I feel disturbed by other forest visitors, e.g. bikers ^m	0	0	0	0	0
I dislike logging activities ^j	0	0	0	0	0
I dislike logging residues ^j	0	0	0	0	0

Finally, a few personal details:

9. Gender^{a, c, d}

- ☐ female
- ☐ male

10. Year of birth^{a, c, d}

11. Your postcode^{a, c, d}

12. In which country did your parents grow up?^{a, c, d}

13. What was the last level of school you attended?^{a, c, d}

- ☐ None/Primary school
- ☐ Secondary school/Junior high school
- ☐ Apprenticeship, Vocational training
- ☐ A-Levels, Teacher training, Vocational school leaving certificate
- ☐ University of Applied Sciences, Teacher training college
- ☐ Federal Institute of Technology, University
- ☐ Doctorate

14. How many children live in your household?^d _____

15. Are you a member of an environmental or nature conservation organisation, e.g. Pro Natura, WWF or Greenpeace?^{b, c, d}

- ☐ yes
- ☐ no

16. Are you restricted in your everyday life and leisure time by a disability or chronic illness?^{d, n}

☐ yes

☐ no

17. How important was the forest for you in your childhood?^{a, c, d}

☐

Unimportant

☐

Not very
important

☐

Undecided

☐

Quite important

☐

Very important

18. When you were a child, did you spend your free time (not organised) regularly in the forest?^d

☐ yes

☐ no

19. Are you (or have you ever been) a member of a youth group (e.g. scouts/guides)?^d

☐ yes

☐ no

20. Do you or any of your close relatives own any forest?^{a, c, d}

☐ yes

☐ no

Comments:

21. Many thanks for taking the time to respond to this survey. We wish you an enjoyable time in the forest!

To be completed by the interviewer:

Activity of the respondent:^{c, d}

- | | | |
|---|--|--------------------------------------|
| <input type="radio"/> Walking without dog | <input type="radio"/> Hiking without dog | <input type="radio"/> Jogging |
| <input type="radio"/> Walking with dog | <input type="radio"/> Hiking with dog | <input type="radio"/> Nordic walking |
| <input type="radio"/> Cycling | <input type="radio"/> Biking | <input type="radio"/> |

Weather conditions:

- ☐ sunny
☐ cloudy
☐ raining
☐ snow on the ground
☐ snowing

Location/plot:

Date and time:

Interviewer:

^aWaMos2: Hunziker, M., von Lindern, E., Bauer, N., & Frick, J. (2012). *Das Verhältnis der Schweizer Bevölkerung zum Wald. Waldmonitoring soziokulturell: Weiterentwicklung und zweite Erhebung - WaMos 2*. Retrieved from Birmensdorf:
https://www.dora.lib4ri.ch/wsl/islandora/object/wsl%3A10268/datastream/PDF/Hunziker-2012-Das_Verhältnis_der_Schweizer_Bevölkerung-%28published_version%29.pdf

^bWaMos2, adapted to field situation

^cPilot study: Hegetschweiler, K. T., Plum, C., Fischer, C., Brändli, U.-B., Ginzler, C., & Hunziker, M. (2017b). Towards a comprehensive social and natural scientific forest-recreation monitoring instrument—A prototypical approach. *Landscape and Urban Planning*, 167, 84-97. doi:10.1016/j.landurbplan.2017.06.002

^dOnline study: Hegetschweiler, K. T., Fischer, C., Moretti, M., & Hunziker, M. (2020). Integrating data from National Forest Inventories into socio-cultural forest monitoring – a new approach. *Scandinavian Journal of Forest Research*, 35(5-6), 274-285. doi:10.1080/02827581.2020.1799066

^eAdded for international comparability, see: Jensen, F. S., & Koch, N. E. (2004). Twenty-five Years of Forest Recreation Research in Denmark and its Influence on Forest Policy. *Scandinavian Journal of Forest Research*, 19(sup004), 93-102. doi:10.1080/14004080410034173

^fVega-Garcia, C., Burriel, M., & Alcazar, J. (2011). Valoración social de las propiedades estéticas de los hayedos en Cataluña (Social valuation of scenic beauty in Catalanian beech forests). *Forest Systems*, 20(2), 195-208.

- ^g Gundersen, V. S., & Frivold, L. H. (2008). Public preferences for forest structures: A review of quantitative surveys from Finland, Norway and Sweden. *Urban Forestry & Urban Greening*, 7(4), 241-258. doi:10.1016/j.ufug.2008.05.001
- ^h Bell, S., Thompson, C. W., & Travlou, P. (2003). Contested views of freedom and control: Children, teenagers and urban fringe woodlands in Central Scotland. *Urban Forestry & Urban Greening*, 2(2), 87-100. doi:10.1078/1618-8667-00026)
- ⁱ Mäkinen, K., & Tyrväinen, L. (2008). Teenage experiences of public green spaces in suburban Helsinki. *Urban Forestry & Urban Greening*, 7(4), 277-289. doi:10.1016/j.ufug.2008.07.003
- ^j Added after pretest
- ^k Oppliger, J., Lieberherr, E., & Hegetschweiler, K. T. (2019). Factors influencing teenagers' recreational forest use in a densely-populated region in Switzerland. *Journal of Outdoor Recreation and Tourism*, 27. doi:10.1016/j.jort.2019.100225
- ^l Lyytimäki, J., & Sipilä, M. (2009). Hopping on one leg – The challenge of ecosystem disservices for urban green management. *Urban Forestry & Urban Greening*, 8(4), 309-315. doi:10.1016/j.ufug.2009.09.003
- ^m Requested by the Federal Office for the Environment
- ⁿ Added for international comparability in COST Action FP1204, see: De Vreese, R., O'Brien, L., Panagopoulos, T., Atmiş, E., Olafsson, A. S., Sievänen, T., . . . Kern, M. (2016). *Socio-environmental justice – diversity in access to and benefits from green infrastructure and urban forests in Europe*. Paper presented at the 19th European Forum on Urban Forestry, Ljubljana, Slovenia.