

Appendices

Raw data tables were not included as appendices but can be provided on request to the author. Below is a list over not included material.

- Total plant lists for the investigated enclosures, and plants found within the documentation circles at September 2017 and May/June 2018.
- Table containing raunkjaer registrations at September 2017 and May/June 2018.
- Table containing animal units, total area (Ha), AU/Ha, Simpsons dominance, Simpsons richness, Simpsons evenness, species number, Shannon Wiener H', animal, number of years grassed, habitat, water content (%), N (%), C (%), C/N ratio, pH, number of animals, Ellenberg L, Ellenberg F, Ellenberg R, Ellenberg N, species index, structure index, nature conservation status index, for the complete dataset.
- Table containing Ellenberg L, Ellenberg F, Ellenberg R, Ellenberg N. habitat, species index, structure index, nature conservation status index, years grazed, animal, water content (%), N (%), C (%), C/N ratio, pH, for September 2017 and May/June 2018.
- Table containing, biological status at the 38 subareas in total and for September 2017 and May/June 2018.
- Table containing the ordinal regression results based on the CLM model, when using 10% threshold reduction.

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Appendix 1

This appendix contains sampling procedures and post processing for chapter 4.3.1 *Nature condition and potential*.

Ellenberg values

Ellenberg indicator values do not indicate conditions at a specific time in the lifecycle or at the year but present a regression of values over time. Ellenberg values can be used in combination with other species related indices in the assessment of nature quality. Ellenberg defined seven major scales of properties which plants requires, of which five were applied here. The two absent were, T (temperature) and K (continentality), as either T nor K values are suitable in an oceanic climate. The five remaining values light (L), soil moisture (F), reaction referring to soil or water acidity (R) and nitrogen (N). The Ellenberg values are defined on a reference scale from 1-9, except F which range on a scale from 1-12 (Bunce et al. 1999).

Soil sampling

Water content total N, total C and pH was found from the soil samples. 15-20 g of soil were taken from the original sample and oven dried at 105 °C in approx. 36 hours before measuring dry weight. The dried soil samples were sieved to remove stones and roots and pulverized using a laboratory grinder. Finally, approx., 4 micrograms were enclosed in a tin capsule for the measurements of total N and C. The C and N measurements were performed, on a EuroVector CU-10 elemental analyser, by laboratory technician Gosha, from Department of Biology, Terrestrial Ecology.

pH was measured from 9.5-10.5 g samples mixed with 50 mL double distilled water and shaken with 200 revolutions in 30 minutes. After at least 1 hour. When the soil had settled, the pH was measured.

Simpsons diversity index

Simpsons dominance (D) are the probability that two random samples from the same community, belongs to the same species. Where p was the proportion of individuals belonging to the ith species.

$$D = \sum p_i^2$$

As dominance (D) in a community increases the diversity in the community decreases. Simpson diversity index is $1 - D$ or Simpsons reciprocal index $\frac{1}{D}$. $1 - D$ range between 0-1 where 1 is the most diverse community, and 0 is the least diverse. For $\frac{1}{D}$ the community also becomes more diverse with an increasing value, maximum is defined by the number of species in the sample.

Simpsons evenness (SE) is a distribution measure. Where S is number of species and D is dominance.

$$SE = \left(\frac{1 - D}{1 - \left(\frac{1}{S}\right)} \right)$$

Shannon index

Shannon index (H') predicts what the next species in a sample would be. It is a diversity index combining richness and evenness, where richness weights highest. Where p_i is the proportion of individuals belonging to the i th species.

$$H' = - \sum p_i \ln(p_i)$$

The Shannon index has a max score at 5, which rarely occur. The higher the score, the more difficult it becomes to predict the next species in the sample.

Species index

In calculation of the species index, species was assigned a species score between -1 and 7, according to *table 45 p. 58-89* in *Beregning af naturtilstand ved brug af simple indikatorer, 2006*. Contributing species was assigned a score between 1-7. They are naturally belonging in the natural habitat conveying positive information. Problematic species was assigned the score -1, they are not or only a sparse part of the natural habitat, conveying information about negative impacts. Zero species was assigned 0, they do not normally occur and are considered as random guests.

Species score index (A_s):

$$A_s = 1 / ((1 + \exp e(m(a))) \exp e(1.60(1 - m)))$$

Where m was the adjusted middle score (Fredshavn and Ejrnæs 2006 p. 18), the middle score of the species scores. $m(a)$, a table values (Fredshavn and Ejrnæs 2006, p. 18, table 1).

Species diversity index (A_d):

$$A_d = (ab/at)(1 - (1/\exp e(s/d)))$$

Where s was the species sum. $d = 0.8 m(a)n(a)$, where $m(a)$: was the average mean score and $n(a)$ is the average number of species for the habitat type (Fredshavn and Ejrnæs 2006 p. 18, table 1). ab/at was the relative number of contributing species (species score >0) to all species in the 5-meter documentation circle.

The species index was calculated as a weighted mean of species-score index (As) and species diversity index (Ad) (Fredshavn and Ejrnæs 2006). All based on the assigned species scoring from the 5-meter documentation circle.

$$A = 0.75A_s + 0.25A_d$$

Structure index

The structural elements were observed directly at the location and put into five categories. Every category has one or more indicators assigned (Naturkvalitetsplanlægning. 2017). The elements roughly categorizing the structure in the area, were:

1. Vegetation structure.
2. Hydrology and coastal protection.
3. Grassing/nature management.
4. Impact from agricultural management.
5. Habitat type characteristic structures.

Category and indicators were assigned a score, in advance. High scores indicated optimal conditions for the indicator in the given habitat type. The indicators were weighted to fit the evaluated habitat type. For detailed description of how to weight values see: *Beregning af naturtilstand ved brug af simple indikatorer, 2006 p. 11-12.*

The structure index was calculated as the average of the weighted indicator scores for each indicator and each category, adapted to the chosen habitat (Fredshavn and Skov 2005).

$$S = \left(\sum_{ijk} W_k W_j X_{ij} \right) / \sum_{kj} W_k W_j$$

X_{ij} was the points from the ith category for the jth indicator. W_j was the weighted jth indicator. The jth indicator was part of the kth indicator group. W_k was the weight of the kth indicator group in the overall index. Only the indicators affecting the formula was assigned any weighting (Fredshavn and Ejrnæs 2006, p. 12).

Nature conservation status index

The nature conservation status index is a weighted combination of the structure index (S) and the species index (A). The lowest contributing index will be weighted highest to avoid that a rich species community covers poor structure or vice versa (Fredshavn and Ejrnæs 2006).

When the structure index was larger than the species index or the species index was larger than the structure index:

$$N = 0.4S + 0.6A \text{ or } N = 0.4A + 0.6S$$

Appendix 2

Table 1: The conversion from Nature-conservation index to status class, definition is based on EU Water Framework Directives description.

Nature conservation status index	Status class	Definition
0-0.2	V: Bad ecological status	Seriously levels of anthropogenic changes. Large parts of what normally defines the habitat type does not occur.
0.2-0.4	IV: Poor ecological status	Major levels of anthropogenic changes to the biological quality parameters. The biological community differ from what is expected at untouched conditions.
0.4-0.6	III: Moderate ecological status	Medium levels of anthropogenic changes in the biological quality parameters. Significant changes from what applies to this nature type under untouched conditions.
0.6-0.8	II: Good ecological status	Low levels of anthropogenic changes in the biological quality parameters for the natural habitat type, but it differs slightly from what normally apply to this natural habitat under untouched conditions
0.8-1	I: High ecological status	There are none or very little anthropogenic changes in the physicochemical and hydro-morphological quality parameters for the natural habitat. What usually applies to this natural habitat under untouched conditions.

Appendix 3

Motivation among members of grazing organizations

Background information

* Required

1. Which organization do you belong to *

Mark only one oval.

- Arrenaes grazing organization (AN)
- Bondemosens grazing organization (BM)
- Copenhagen grazing organization (CPH)
- Dalbyhoj grazing organization (DH)
- Furesoe grazing organization (FS)
- Hjortespring nature conservation association (HS)
- Hojmosen grazing organization (HM)
- Jyllinge Hojme sheep association (JH)
- Kasted fen grazing and conservation organization (KF)
- Kelleris grazing organization (KR)
- Kodriverne (KD)
- Korusseme (KN)
- Munksoegaard grazing organization (MSG)
- Nivaa sheep breeding association (NSBA)
- Petersminde grazing organization (PM)
- Saerlose grassland forest boar and grazing organization (SG)
- Slaglunde grazing organization (SL)
- Slotsmosens grazing organization (SLM)
- Soellerod nature conservation- & grazing organization (SOR)
- Sondermarkens grazing organization (SOM)
- Soroe grazing organization (SR)
- Svogerslev grazing organization (SVL)
- Taarnby conservation organization (TB)
- The grazing organization of Avedoere salt meadow (AS)
- Utterslev grazing organization (UG)

2. What is your gender? *

Check all that apply.

- Male
- Female

3. What is your age? *

Mark only one oval.

- 16-20
- 21-30
- 31-40
- 41-50
- 51-60
- 71-80
- Older than 81

4. What is your civil status? *

Check all that apply.

- Single/Divorced
- Married
- Widowed
- Other: _____

5. What is the age of your youngest child living at home? *

Mark only one oval.

- 0-5 years
- 6-11 years
- Older than 12 years
- I have no children living at home
- Other: _____

6. What is your occupation? *

Mark only one oval.

- Studying
- Part-time employed
- Full-time employed
- Unemployed
- Retired

7. What is your educational level? *

Mark only one oval.

- Skilled
- Unskilled
- Short higher education
- Intermediate higher education
- Long higher education

8. Where did your upbringing mainly take place? *

Mark only one oval.

- In the countryside
- In the city
- In the suburbs
- Other: _____

9. How much time do you use at transportation?(from you leave your door til you are at the enclosures) *

Mark only one oval.

- Less than 5 minutes
- 5-15 minutes
- 16-30 minutes
- 31 minutes to an hour
- More than an hour

10. How much time do your weekly spent, from you leave your home till you are home again, disribitutes across the year? *

Mark only one oval.

- Less than an hour
- One hour
- Two hours
- Three hours
- More than three hours

11. In the grazing organization, I am: *

Mark only one oval.

- Member
- Chairman
- Vice chairman
- Cashier
- Support member (do not buy meat)

12. In percentages how much time do you spent on:

Mark only one oval per row.

	0- 20%	20- 40%	40- 60%	60- 80%	80- 100%	Ved ikke
Paperwork	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Activities in and around the enclosure (incl. working days, animal supervision, social activities etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. How many years have you been part of the grazing organization?

Mark only one oval.

- I have been here since the beginning
- More than 5 years
- 1-5 years
- less than 1 year

14. Are you at the moment, member of another organization, doing voluntary work?

Mark only one oval.

- Yes
- No

Motivation

Please rate the following statements on a scale from 'strongly disagree' to 'strongly agree'.

Strongly disagree: This statement does not at all describes me or my opinion/feeling

Disagree: I cannot or only to a small degree identify with this statement

Neither nor: I do not have an opinion on this statement

Agree; I can identify with this statement

Strongly agree: This statement precisely describes me as a person or my opinion/feeling

15. How well does following statement describe you?

Mark only one oval per row.

	Strongly disagree	Disagree	Neither nor	Agree	Strongly agree	I don't know
Through my membership, I learn about flora and fauna in Denmark	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The organizations social arrangements are important to me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel it is important to take care of / protect / improve nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Through the organization, I have been able to make a difference	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I find that, in the organization, we contribute to the local community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participating in the grazing organization gives me a new perspective on things	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By being a member of the organization I can pass something on to other people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The organization is, for me, a way to meet new people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can share and pass on my knowledge and opinions about nature and animals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am concerned about loss of nature and biodiversity in Denmark	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel we today do enough to protect nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Motivation (continued)

16. How well does following statement describe you?

Mark only one oval per row.

	Strongly disagree	Disagree	Neither nor	Agree	Strongly Agree	I don't know
I am a member of the organization because it provides good stories to tell family, friends and acquaintances	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The people close to me believes it is important to make active efforts for nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am member of the organization primarily for the meat and /or wool of the animals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
People in close to me support my decision to be a member of a grazing organization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I consider joining another organization within the next 5 years	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The organization provides an opportunity to protect and manage an area I feel linked to	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The opinions, of people in my circle, are important to me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My experiences with the organization are personally enriching	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am member of the organization, to associate with others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am a member of the organization, because I enjoy spending time outdoors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I expect to be a member of the organization, for at least the next 5 years	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Membership of the organization

You will be asked about your membership of the grazing organization.

17. My association with the organization is, that:

Check all that apply.

- Family members who are already members, encouraged me to join
- I found the organization through online, social or other media (e.. the local newspaper) and became a member
- Friends who are already members, encouraged me to join
- In advance, I had no association to the members of the organization
- Other: _____

18. I am a member of the organization, because:

Mark only one oval per row.

	Very unimportant	unimportant	Neither nor	Important	Very important	I don't know
We are actively doing something for nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
We are activity doing something for animal welfare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am generally concerned about environmental issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I want to expand knowledge about nature, nature management and protection to others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I want to conserve and protect nature, for the future generations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

19. I greatly share the organization's values according to:

Mark only one oval per row.

	Strongly disagree	Disagree	Neither nor	Agree	Strongly agree	I don't know
The social activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nature management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Animal welfare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality meat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dissemination of nature management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

20. Which of the following actions could be an additional motivation factor for continued membership?

Check all that apply.

- Sightseeing, see, meet and learn from other organizations
- Courses related to the nature (gatherer trips, botanical trips and nature management)
- Courses related to the animals (care or meat)
- More animals
- A strengthened social network/community
- Different kind of animals
- To learn something
- Other: _____

21. What have you learned by being a member?

Check all that apply.

- I have learned to manage and care for nature habitats
- I have learned about the fauna (animals)
- I have learned to take care of "our" animals
- I have learn about the flora (vegetation)
- Other: _____

22. What is your expectations, to the organization, as a member?

Mark only one oval per row.

	Strongly disagree	Disagree	Neither nor	Agree	Strongly agree	I don't know
That I have an influence in organization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
That participation and activities are flexible (time spent, knowledge)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
That I get a tangible benefit (product or better nature)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23. What has your membership of the organization, meant for your relationship to nature?

Mark only one oval per row.

	Strongly disagree	Disagree	Neither nor	Agree	Strongly agree	I don't know
That I appreciate the nature we have in Denmark more	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Generally, I find more joy in being in and using nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
That I spent more time outdoors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I do not think, that I spend more time in nature than before joining	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I do not think, that I enjoy nature more after becoming a member	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I think it is an obligation/duty to take care of	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Explanatory questions

24. Are you interested in a union for grazing organizations in Denmark? If so, what should such a union offer?

25. What is the most satisfying of being a member of the organization?

26. If you have any additional comment or opinion, feel free to share

Appendix 4

Table 2: Result for the ANOVA and linear regression model for September 2017 data.

September data											
Variable	df	S.E.	F-statistics	p value	Sign	Variable	df	S.E.	F-statistics	p value	Sign
Habitat						Total C (%)					
Ellenberg L	34	0.18	0.45	0.72		Species index	36	0.13	0.65	0.42	
Ellenberg F	34	0.73	8.85	0.0002	***	Structure index	36	0.1	0.77	0.39	
Ellenberg R	34	1.17	0.63	0.6		Nature conservation status index	36	0.09	1.28	0.27	
Ellenberg N	34	0.62	0.29	0.83		C/N ratio					
Species index	34	0.12	1.94	0.14		Species index	36	0.13	0.48	0.49	
Structure index	34	0.1	1.35	0.27		Structure index	36	0.1	2.21	0.15	
Nature conservation status index	34	0.09	0.59	0.63		Nature conservation status index	36	0.09	0.006	0.94	
Water content (%)	34	13.38	6.43	0.001	**	pH					
Total N (%)	34	0.45	6.23	0.002	**	Species index	36	0.13	1.06	0.31	
Total C (%)	34	6.41	5.67	0.003	**	Structure index	36	0.1	1.32	0.26	
C/N ratio	34	3.4	1.4	0.26		Nature conservation status index	36	0.09	2.19	0.15	
pH	34	1.42	1.45	0.24		Water content (%)					
Animal						Species index	36	0.13	0.04	0.84	
Ellenberg L	35	0.18	0.97	0.39		Structure index	36	0.1	0.2	0.7	
Ellenberg F	35	0.92	0.03	0.23		Nature conservation status index	36	0.09	0.13	0.72	
Ellenberg R	35	1.06	4.35	0.02	*	Ellenberg L					
Ellenberg N	35	0.57	3.52	0.04	*	Species index	36	0.13	0.28	0.6	
Species index	35	0.12	3.94	0.06		Structure index	36	0.1	2.49	0.12	
Structure index	35	0.1	2.03	0.15		Nature conservation status index	36	0.09	0.07	0.8	
Nature conservation status index	35	0.05	3.29	0.05		Ellenberg F					
Water content (%)	35	15.79	1.61	0.21		Species index	36	0.13	2.67	0.11	
Total N (%)	35	0.53	1.28	0.29		Structure index	36	0.1	0.82	0.37	
Total C (%)	35	7.48	1.19	0.32		Nature conservation status index	36	0.09	0.96	0.33	
C/N ratio	35	3.37	1.93	0.16		Ellenberg R					
pH	35	1.43	1.53	0.23		Species index	36	0.12	6.46	0.02	*

Total N (%)					Structure index	36	0.1	2.97	0.09	
Species index	36	0.13	0.09	0.76	Nature conservation status index	36	0.08	10.59	0.003	**
Structure index	36	0.1	1.56	0.22	Ellenberg N					
Nature conservation status index	36	0.09	0.73	0.39	Species index	36	0.1	30.69	2.87E-06	***
					Structure index	36	0.1	0.64	0.43	
					Nature conservation status index	36	0.07	28.09	6.00E-06	

Table 3: Post hoc results for the ANOVA and linear regression on September 2017 data.

Post hoc September data													
Comparison	Variable	Estimate	S.E.	t value	Pr(> t)	Sign	Comparison	Variable	Estimate	S.E.	t value	Pr(> t)	Sign
Habitat and Ellenberg F						Animal and Ellenberg R							
	Grassland	5.46	0.18	29.85	5.65E-26	***		Cattle	5.10	0.19	26.83	6.22E-25	***
	Fen	1.80	0.46	3.91	0.0004	***		Both	1.28	1.07	1.19	0.24	
	Meadow	1.06	0.25	4.23	0.0002	***		Sheep	1.31	0.47	2.78	0.008	**
	Salt meadow	1.34	0.75	1.77	0.09		Animal and Ellenberg N						
Habitat and water content													
	Grassland	21.25	3.34	6.35	3.00E-07	***		Cattle	5.23	0.10	51.28	1.59E-34	***
	Fen	19.08	8.42	2.27	0.03	*		Both	-0.13	0.58	-0.22	0.82	
	Meadow	19.12	4.60	4.16	0.0002	***	Ellenberg R and Species index						
	Salt meadow	-0.95	13.7	-0.07	9.45			Ellenberg R	-0.04	0.02	-2.54	0.02	*
Habitat and total N (%)						Ellenberg R and Nature conservation status index							
	Grassland	0.24	0.11	2.18	0.04	*		Ellenberg R	-0.04	0.01	-3.25	0.002	**
	Fen	0.76	0.28	2.69	0.01	*	Ellenberg N and Species index						
	Meadow	0.60	0.15	3.91	0.0004	***		Ellenberg N	-0.14	0.03	-5.54	2.87E-06	***
	Salt meadow	-0.04	0.46	-0.09	0.92		Ellenberg N and Nature conservation status index						
Habitat and total C (%)													
	Grassland	3.59	1.60	2.24	0.03	*		Ellenberg N	-0.09	0.02	-5.30	6.00E-06	***
	Fen	8.11	4.03	2.01	0.05								
	Meadow	8.77	2.20	3.98	0.0003	**							
	Salt meadow	1.21	6.60	0.18	0.86								

Table 4: Result for the ANOVA and linear regression model for May/June 2018 data.

May/June data											
Variable	df	S.E.	F-statistics	p value	Sign	Variable	df	S.E.	F-statistics	p value	Sign
Habitat						C/N ratio					
Ellenberg L	34	0.2	0.4	0.75		Species index	36	0.15	0.86	0.36	
Ellenberg F	34	0.64	15.54	1.55E-06	***	Structure index	36	0.11	8.18	0.007	**
Ellenberg R	34	0.91	0.54	0.66		Nature conservation status index	36	0.12	3.64	0.06	
Ellenberg N	34	0.49	0.56	0.65		pH					
Species index	34	0.14	2.68	0.06		Species index	36	0.15	4.75	0.03	*
Structure index	34	0.1	3.39	0.03	*	Structure index	36	0.11	1.82	0.18	
Nature conservation status index	34	0.1	2.82	0.05		Nature conservation status index	36	0.11	1.37	0.25	
Water content (%)	34	18.86	9.86	8.02E-05	***	Water content (%)					
Total N (%)	34	0.45	7.26	7.00E-04	***	Species index	36	0.12	28.01	6.14E-06	***
Total C (%)	34	5.93	7.82	4.00E-04	***	Structure index	36	0.11	2.92	0.1	
C/N ratio	34	2.08	0.46	0.64		Nature conservation status index	36	0.08	27.57	6.97E-06	***
pH	34	0.75	1.31	0.29		Ellenberg L					
Animal						Species index	36	0.16	0.08	7.80E-01	
Ellenberg L	35	0.19	2.46	0.1		Structure index	36	0.12	0.09	0.77	
Ellenberg F	35	0.92	2.02	0.15		Nature conservation status index	36	0.11	0.13	7.20E-01	
Ellenberg R	35	0.84	3.24	0.05		Ellenberg F					
Ellenberg N	35	0.46	2.76	0.08		Species index	36	0.13	18.68	1.00E-04	***
Species index	35	0.15	2.21	0.13		Structure index	36	0.11	1	0.32	
Structure index	35	0.11	2.61	0.09		Nature conservation status index	36	0.09	15,61	3.00E-04	***
Nature conservation status index	35	0.1	3.8	0.03	*	Ellenberg R					
Water content (%)	35	24.95	0.66	0.52		Species index	36	0.16	0.06	8.10E-01	
Total N (%)	35	0.55	1.37	0.27		Structure index	36	0.11	3.94	0.05	
Total C (%)	35	7.39	0.99	0.38		Nature conservation status index	36	0.11	0.98	3.30E-01	
C/N ratio	35	1.99	3.11	0.09		Ellenberg N					
pH	35	0.77	0.64	0.53		Species index	36	0.11	26.8	8.75E-06	***
Total N(%)						Structure index	36	0.11	0.04	0.84	

Species index	36	0.14	11.34	0.002	**	Nature conservation status index	36	0.09	15,85	3.00E-04	***
Structure index	36	0.11	3.49	0.07							
Nature conservation status index	36	0.1	13.79	6.90E-04	***						
Total C (%)											
Species index	36	0.14	10.35	0.003	**						
Structure index	36	0.11	2.26	0.14							
Nature conservation status index	36	0.1	11.37	0.002	**						

Table 5: Post hoc results for the ANOVA and linear regression on May/June 2018 data.

Post hoc May/June data											
Variable	Estimate	S.E.	t value	Pr(> t)	Sign	Variable	Estimate	S.E.	t value	Pr(> t)	Sign
Habitat and Ellenberg F						pH and Species index					
Grassland	5.53	0.16	34.69	4.00E-28	***	pH	0.07	0.03	2.18	0.04	*
Fen	2.37	0.40	5.90	1.18E-06	***	Water content (%) and Species index					
Meadow	1.06	0.22	4.85	2.68E-05	***	Water content (%)	0.004	7.78E-04	5.29	6.14E-06	***
Salt meadow	1.38	0.66	2.10	0.04	**	Water content (%) and Nature conservation status index					
Habitat and Structure index						Water content (%)	0.003	5.67E-04	5.25	6.97E-06	***
Grassland	0.79	0.03	30.16	4.02E-26	***	Ellenberg F and Species index					
Fen	0.03	0.07	0.44	0.66		Ellenberg F	0.10	0.02	4.32	1.17E-04	***
Meadow	0.11	0.04	3.09	0.004	**	Ellenberg F and Nature conservation status index					
Salt meadow	-0.01	0.11	-0.12	0.91		Ellenberg F	0.07	0.02	3.95	3.48E-04	***
Habitat and Water content (%)						Ellenberg N and Species index					
Grassland	12.31	4.72	2.61	0.01	*	Ellenberg N	-0.21	0.04	-5.18	8.74E-06	***
Fen	61.42	11.87	5.18	1.02E-05	***	Ellenberg N and Nature conservation status index					
Meadow	19.56	6.48	3.02	0.005	**	Ellenberg N	-0.13	0.03	-3.98	3.19E-04	***
Salt meadow	24.19	19.44	1.24	0.22		Total N (%) and species index					
Habitat and total N (%)						Total N (%)	0.13	0.04	3.37	0.002	**
Grassland	0.38	0.11	3.33	0.002	**	Total N (%) and Nature conservation status index					
Fen	1.20	0.29	4.21	1.77E-04	***	Total N (%)	0.11	0.03	3.71	6.90E-04	***
Meadow	0.44	0.16	2.80	0.008	**	Total C (%) and species index					
Salt meadow	-0.22	0.47	-0.48	0.64		Total C (%)	0.01	0.003	3.22	0.003	**

Habitat and total C (%)						Total C (%) and nature conservation status index					
Grassland	5.24	1.48	3.54	0.001	**	Total C (%)	0.01	0.002	3.37	0.002	**
Fen	16.90	3.73	4.53	6.88E-05	***	C/N ratio and structure index					
Meadow	5.40	2.04	2.65	0.01	*	C/N ratio	-0.02	0.01	-2.86	0.007	**
Salt meadow	-1.92	6.11	-0.31	0.75							
Animal and Nature conservation status index											
Cattle	0.51	0.02	27.06	4.67E-25	***						
Sheep and Cattle	-0.06	0.11	-0.58	0.57							
Sheep	-0.13	0.05	-2.73	0.01	**						

Table 6: Result for the ANOVA and linear regression model for the total dataset.

Total data set											
Variable	df	S.E.	F-statistics	p value	Sign	Variable	df	S.E.	F-statistics	p value	Sign
Habitat						Ellenberg F					
Ellenberg L	20	0.14	1.08	0.39		Simpsons richness	23	0.19	0.62	0.44	
Ellenberg F	20	0.61	6.59	0.002	**	Simpson dominance	23	0.03	1.19	0.29	
Ellenberg R	20	0.85	0.62	0.65		Simpsons evenness	23	0.19	0.61	0.44	
Ellenberg N	20	0.42	0.1	0.98		Shannon index	23	0.38	0.23	0.63	
Simpsons richness	20	0.02	3.36	0.03	*	Species number	23	30.55	0.46	0.51	
Simpson dominance	20	0.03	1.36	0.28		Species index	23	0.09	3.82	0.06	
Simpsons evenness	20	0.2	0.33	0.86		Structure index	23	0.1	0.3	0.59	
Shannon index	20	0.4	1.27	0.32		Nature conservation status index	23	0.07	3.51	0.07	
Species index	20	0.1	1.37	0.28		Ellenberg R					
Structure index	20	0.1	1.96	0.14		Simpsons richness	23	0.02	1.23	0.28	
Nature conservation status index	20	0.08	1.12	0.38		Simpson dominance	23	0.03	0.14	0.72	
Water content (%)	20	11.94	3.76	0.02	*	Simpsons evenness	23	0.19	0.32	0.57	
Total N (%)	20	0.39	2.75	0.06		Shannon index	23	0.38	0.35	0.85	
Total C (%)	20	5.14	2.79	0.05		Species number	23	30.82	0.04	0.85	
C/N ratio	20	1.77	0.66	0.58		Species index	23	0.1	0.28	0.6	
pH	20	1.08	1.83	0.16		Structure index	23	0.1	0.01	0.26	
Animal						Nature conservation status index	23	0.08	0.99	0.33	

Ellenberg L	22	0.39	1.81	0.19	Ellenberg N				
Ellenberg F	22	0.83	1.4	0.27	Simpsons richness	23	0.02	0.58	0.45
Ellenberg R	22	0.72	0.24	0.02 *	Simpson dominance	23	0.03	0.01	0.91
Ellenberg N	22	0.33	5.02	0.02 *	Simpsons evenness	23	0.19	0.9	0.35
Simpsons richness	22	0.02	0.13	0.88	Shannon index	23	0.37	1.29	0.27
Simpson dominance	22	0.03	0.2	0.82	Species number	23	30.57	0.42	0.52
Simpsons evenness	22	0.19	0.11	0.9	Species index	23	0.09	6.84	0.02 *
Shannon index	22	0.34	2.93	0.74	Structure index	23	0.1	0.75	0.39
Species number	22	30.69	0.62	0.55	Nature conservation status index	23	0.07	1.94	0.18
Species index	22	0.09	3.66	0.04 *	Water content (%)				
Structure index	22	0.09	1.98	0.16	Simpsons richness	23	0.02	0.66	0.42
Nature conservation status index	22	0.06	3.45	0.04 *	Simpson dominance	23	0.03	0.59	0.45
Water content (%)	22	13.84	2.05	0.15	Simpsons evenness	23	0.19	0.11	0.74
Total N (%)	22	0.44	1.69	0.21	Shannon index	23	0.38	0.28	0.6
Total C (%)	22	5.72	1.58	0.23	Species number	23	30.51	0.52	0.48
C/N ratio	22	1.76	2.38E-06	0.99	Species index	23	0.1	0.05	0.83
pH	22	1.1	2.11	0.15	Structure index	23	0.1	1.45	0.24
Year grazed					Nature conservation status index	23	0.08	0.61	0.44
Ellenberg L	23	0.14	3.05	0.09	Total C (%)				
Ellenberg F	23	0.86	0.14	0.72	Simpsons richness	23	0.02	0.01	0.91
Ellenberg R	23	0.84	0.4	0.53	Simpson dominance	23	0.03	0.02	0.88
Ellenberg N	23	0.38	1.43	0.24	Simpsons evenness	23	0.19	0.14	0.71
Simpsons richness	23	0.02	0.8	0.38	Shannon index	23	0.38	0.28	0.6
Simpson dominance	23	0.03	0.15	0.7	Species number	23	30.85	7.56E-05	0.99
Simpsons evenness	23	0.19	0.1	0.75	Species index	23	0.1	0.86	0.36
Shannon index	23	0.37	0.78	0.39	Structure index	23	0.09	2.68	0.12
Species number	23	29.59	1.99	0.17	Nature conservation status index	23	0.07	2.51	0.13
Species index	23	0.1	2.28	0.14	Total N (%)				
Structure index	23	0.1	0.69	0.41	Simpsons richness	23	0.02	0.17	0.68
Nature conservation status index	23	0.08	0.55	0.47	Simpson dominance	23	0.03	0.005	0.94
Water content (%)	23	14.73	0.06	0.81	Simpsons evenness	23	0.19	0.32	0.58

Total N (%)	23	0.46	0.11	0.75	Shannon index	23	0.38	0.22	0.65
Total C (%)	23	5.97	0.12	0.74	Species number	23	30.05	0.002	0.97
C/N ratio	23	2.2	0.87	0,36	Species index	23	0.1	1.03	0.32
pH	23	1.14	1.31	0.26	Structure index	23	0.1	1.95	0.18
AU pr. HA					Nature conservation status index	23	0.07	2.35	0.14
Ellenberg L	23	0.15	0.19	0.66	C/N ratio				
Ellenberg F	23	0.86	0.12	0.73	Simpsons richness	23	0.02	0.04	0.84
Ellenberg R	23	0.82	0.01	0.26	Simpson dominance	23	0.03	0.35	0.56
Ellenberg N	23	0.39	0.06	0.81	Simpsons evenness	23	0.19	0.44	0.51
Simpsons richness	23	0.02	0.02	0.9	Shannon index	23	0.38	0.002	0.97
Simpson dominance	23	0.03	0.007	0.93	Species number	23	30.8	0.08	0.78
Simpsons evenness	23	0.19	9.90E-10	1	Species index	23	0.1	0.93	0.35
Shannon index	23	0.37	0.74	0.4	Structure index	23	0.09	6.19	0.02 *
Species number	23	30.68	0.25	0.62	Nature conservation status index	23	0.08	0.15	0.7
Species index	23	0.1	0.21	0.65	pH				
Structure index	23	0.1	0.75	0.39	Simpsons richness	23	0.02	0.72	0.4
Nature conservation status index	23	0.08	0.007	0.93	Simpson dominance	23	0.03	0.6	0.44
Water content (%)	23	14.71	0.13	0.73	Simpsons evenness	23	0.19	0.09	0.76
Total N (%)	23	0.45	0.36	0.55	Shannon index	23	0.38	0.4	0.53
Total C (%)	23	5.95	0.21	0.65	Species number	23	29.2	2.67	0.11
C/N ratio	23	2.25	0.00027	0.99	Species index	23	0.1	1.39	0.25
pH	23	1.15	1.19	0.29	Structure index	23	0.09	5.01	0.03 *
Ellenberg L					Nature conservation status index	23	0.08	0.02	0.88
Simpsons richness	23	0.02	0.0003	0.99					
Simpson dominance	23	0.03	0.21	0.65					
Simpsons evenness	23	0.19	0.54	0.47					
Shannon index	23	0.37	0.56	0.46					
Species number	23	30.27	0.89	0.35					
Species index	23	0.1	2.7	0.11					
Structure index	23	0.1	0.54	0.47					
Nature conservation status index	23	0.08	0.71	0.41					

Table 7: Post hoc results for the ANOVA and linear regression on the total dataset.

POST HOC											
Variable	Estimate	S.E.	t value	Pr(> t)	Sign	Variable	Estimate	S.E.	t value	Pr(> t)	Sign
Habitat and Ellenberg F						Animal and Ellenberg N					
Grassland	5.44	0.20	26.76	3.91E-17	***	Cattle	5.11	0.07	68.19	4.25E-27	***
Combi	0.74	0.37	2.01	0.06		Cattle and Sheep	-0.15	0.34	-0.43	0.67	
Fen	2.33	0.64	3.63	0.002	**	Sheep	0.57	0.18	3.09	0.005	**
Meadow	1.17	0.28	4.19	4.52E-04	***	Animal and Species index					
Salt meadow	1.41	0.64	2.20	0.04	*	Cattle	0.24	0.02	11.76	5.86E-11	***
Habitat and Simpsons richness						Cattle and Sheep	0.11	0.09	1.18	0.25	
Grassland	0.92	0.01	177.56	1.85E-33	***	Sheep	-0.11	0.05	-2.32	0.03	*
Combi	-0.02	0.01	-1.72	0.1		Animal and Nature conservation status index					
Fen	-0.06	0.02	-3.43	0.003	**	Cattle	0.49	0.02	31.56	8.13E-20	***
Meadow	-0.01	0.01	-1.48	0.16		Cattle and Sheep	0.01	0.07	0.13	0.9	
Salt meadow	0.00	0.02	-0.07	0.95		Sheep	-0.10	0.04	-2.60	0.02	*
Habitat and water content						Ellenberg N and Species index					
Grassland	22.72	3.98	5.71	1.39E-05	***	Ellenberg N	-0.12	0.05	-2.62	0.02	*
Combi	13.75	7.18	1.92	0.07		C/N ratio and structure index					
Fen	6.05	12.59	0.48	0.64		C/N ratio	-0.02	0.01	-2.49	0.02	*
Meadow	20.12	5.49	3.67	0.002	**	pH and Structure index					
Salt meadow	-2.46	12.59	-0.20	0.84		pH	-0.04	0.02	-2.24	0.04	*
Animal and Ellenberg R											
Cattle	5.46	0.16	33.83	1.82E-20	***						
Cattle and Sheep	0.98	0.74	1.33	1.97E-01							
Sheep	1.14	0.40	2.89	0.009	**						

Appendix 5

Table 8: Learned from membership, data from the online questionnaire, complete sample (n = 347).

Variables	Total sample	
	Count	Percentages
What have you learned doing membership		
I have learned about the flora (vegetation)	12	3.5
I have learned about the fauna (animals)	7	2.0
I have learned to manage and care for nature habitats	12	3.5
I have learned to take care of our animals	106	30.5
Combination: I have learned about the flora (vegetation), I have learned to take care of our animals	16	4.6
Combination: I have learned about the fauna (animals), I have learned to take care of our animals	5	1.4
Combination: I have learned to manage and care for nature habitats, I have learned to take care of our animals	36	10.4
Combination: I have learned about the flora (vegetation), I have learned to manage and care for nature habitats, I have learned to take care of our animals	12	3.5
Combination: I have learned about the flora (vegetation), I have learned about the fauna (animals), I have learned to take care of our animals	11	3.2
Combination: I have learned about the flora (vegetation), I have learned to manage and care for nature habitats, I have learned to take care of our animals, Other	1	0.3
Combination: I have learned about the flora (vegetation), I have learned about the fauna (animals)	5	1.4
Combination: I have learned to manage and care for nature habitats, Other	1	0.3
Combination: I have learned to take care of our animals, Other	3	0.9
Combination: I have learned about the flora (vegetation), I have learned about the fauna (animals), Other	1	0.3
Combination: I have learned about the flora (vegetation), I have learned to manage and care for nature habitats, I have learned to take care of our animals, Other	1	0.3
Combination: I have learned about the fauna (animals), I have learned to manage and care for nature habitats, I have learned to take care of our animals	6	1.7
Combination: I have learned about the flora (vegetation), I have learned to manage and care for nature habitats	5	1.4
Combination: I have learned about the flora (vegetation), I have learned about the fauna (animals), I have learned to manage and care for nature habitats	3	0.9
All	36	10.4
Nothing	5	1.4
Other*	16	4.6
Blanks	47	13.5

*Other: The taste of nice meat, diseases (lever flukes), paper works (applications and permissions), the significant differences between city and countryside, to handle and cook all types of meat, the history behind the meadows and their use, learned about scything, board duties, grazing organizations, to enjoy the animals, learned to be outdoors and can at the same time make a difference,

learn about a) animal behaviour and b) my own skills as an animal keeper, about public bureaucracy for farmers learned that a social community is important for newcomers, learned about a local initiative, which makes me happy., expanded my contact to the local people in the area, I learn that supermarket meat is not the only kind, and I learned my kids, that animals are entitled to a good life as long as they live. to fight for what you believe in despite of obstacles.

Table 9: How did you became a member, data from the online questionnaire, complete sample (n = 347).

Variables	Total sample	
	Count	Percentages
My association with the organization:		
Friends who are already members, encouraged me to join	95	27.3
Family members who are already members, encouraged me to join	34	9.8
I found the organization through online, social or other media (e.g. the local newspaper) and became a member	45	12.9
In advance, I had no association to the members of the organization	60	17.2
Combination: I found the organization through online, social or other media (e.g. the local newspaper) and became a member, in advance, I had no association to the members of the organization	56	16.1
Combination: Friends who are already members, encouraged me to join, Family members who are already members, encouraged me to join	5	1.4
Combination: Friends who are already members, encouraged me to join, I found the organization through online, social or other media (e.g. the local newspaper) and became a member	4	1.1
I was founder/co-founder	18	5.2
Other*	30	8.6
I don't know/Blank	1	0.3

* Other: I were invited by locals, I reached out to the organization, was invited by letter, participated in an info-meeting, neighbours invited me, I were invited through my work, as member of Green forum, I invited the organization to an arrangement, and a became member., saw advertisement in the locale supermarket, saw advertisement at the enclosure, was invited by members, I were invited through the homeowner association, fen-meeting.

Table 10: What could further motivate your membership, data from the online questionnaire, complete sample (n = 347).

Variables	Total sample	
	Count	Percentages
Further motivation		
A strengthened social network/community	14	4.1
All	5	1.4
Blank	49	14.1
Courses related to the animals (care or meat)	12	3.5
Courses related to the animals (care or meat), A strengthened social network/community	3	0.9
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management)	10	2.9
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Different kind of animals	7	2.0
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Different kind of animals, A strengthened social network/community	2	0.6
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Different kind of animals, to learn something	2	0.6
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Different kind of animals, to learn something, A strengthened social network/community	2	0.6
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), More animals	2	0.6
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), More animals, Different kind of animals, to learn something	2	0.6
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations	2	0.6
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, A strengthened social network/community	1	0.3
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, Different kind of animals, to learn something	1	0.3
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, Different kind of animals, to learn something, A strengthened social network/community	2	0.6
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, Different kind of animals, to learn something, A strengthened social network/community	1	0.3

Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, More animals	1	0.3
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, more animals, Different kind of animals, to learn something	1	0.3
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, more animals, Different kind of animals, to learn something, A strengthened social network/community	1	0.3
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, more animals, to learn something	1	0.3
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, more animals, to learn something, A strengthened social network/community	1	0.3
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, to learn something	5	1.4
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, to learn something, A strengthened social network/community	4	1.2
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), To learn something	11	3.2
Courses related to the animals (care or meat), Courses related to the nature (gatherer trips, botanical trips and nature management), To learn something, A strengthened social network/community	5	1.4
Courses related to the animals (care or meat), Different kind of animals	7	2.0
Courses related to the animals (care or meat), Different kind of animals, to learn something	3	0.9
Courses related to the animals (care or meat), More animals, Different kind of animals	1	0.3
Courses related to the animals (care or meat), More animals, Different kind of animals, to learn something	1	0.3
Courses related to the animals (care or meat), More animals, Different kind of animals, to learn something, A strengthened social network/community	1	0.3
Courses related to the animals (care or meat), Sightseeing, see, meet and learn from other organizations, A strengthened social network/community	1	0.3
Courses related to the animals (care or meat), Sightseeing, see, meet and learn from other organizations, Different kind of animals	1	0.3
Courses related to the animals (care or meat), Sightseeing, see, meet and learn from other organizations, Different kind of animals, A strengthened social network/community	2	0.6
Courses related to the animals (care or meat), Sightseeing, see, meet and learn from other organizations, to learn something	1	0.3
Courses related to the animals (care or meat), Sightseeing, see, meet and learn from other organizations, to learn something, A strengthened social network/community	1	0.3
Courses related to the animals (care or meat), To learn something	5	1.4
Courses related to the nature (gatherer trips, botanical trips and nature management)	24	6.9
Courses related to the nature (gatherer trips, botanical trips and nature management), A strengthened social network/community	5	1.4

Courses related to the nature (gatherer trips, botanical trips and nature management), Different kind of animals	6	1.7
Courses related to the nature (gatherer trips, botanical trips and nature management), Different kind of animals, A strengthened social network/community	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Different kind of animals, to learn something	3	0.9
Courses related to the nature (gatherer trips, botanical trips and nature management), Different kind of animals, to learn something, A strengthened social network/community	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), More animals, Different kind of animals	5	1.4
Courses related to the nature (gatherer trips, botanical trips and nature management), More animals, Different kind of animals, A strengthened social network/community	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), More animals, Different kind of animals, to learn something	2	0.6
Courses related to the nature (gatherer trips, botanical trips and nature management), More animals, Different kind of animals, to learn something, A strengthened social network/community	2	0.6
Courses related to the nature (gatherer trips, botanical trips and nature management), More animals, to learn something	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations	4	1.2
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, A strengthened social network/community	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, Different kind of animals	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, Different kind of animals, A strengthened social network/community	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, Different kind of animals, to learn something	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, Different kind of animals, to learn something, A strengthened social network/community	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, More animals, Different kind of animals	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, more animals, Different kind of animals, A strengthened social network/community	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, more animals, to learn something	1	0.3
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, to learn something	5	1.4
Courses related to the nature (gatherer trips, botanical trips and nature management), Sightseeing, see, meet and learn from other organizations, to learn something, A strengthened social network/community	3	0.9

Courses related to the nature (gatherer trips, botanical trips and nature management), To learn something	10	2.9
Courses related to the nature (gatherer trips, botanical trips and nature management), To learn something, A strengthened social network/community	4	1.2
Different kind of animals	22	6.4
Different kind of animals, A strengthened social network/community	2	0.6
Different kind of animals, to learn something	4	1.2
Different kind of animals, to learn something, A strengthened social network/community	1	0.3
More animals	6	1.7
More animals, Different kind of animals	5	1.4
More animals, Different kind of animals, A strengthened social network/community	2	0.6
More animals, Different kind of animals, to learn something	1	0.3
More animals, to learn something	3	0.9
More animals, to learn something, A strengthened social network/community	1	0.3
None of the above	6	1.7
Other*	7	2.0
Sightseeing, see, meet and learn from other organizations	2	0.6
Sightseeing, see, meet and learn from other organizations, A strengthened social network/community	2	0.6
Sightseeing, see, meet and learn from other organizations, Different kind of animals	1	0.3
Sightseeing, see, meet and learn from other organizations, Different kind of animals, A strengthened social network/community	1	0.3
Sightseeing, see, meet and learn from other organizations, to learn something	3	0.9
Sightseeing, see, meet and learn from other organizations, to learn something, A strengthened social network/community	1	0.3
To learn something	14	4.0
To learn something, A strengthened social network/community	7	2.0

* Other: No aging, more nature friendly grazing (e.g. year-round grazing without supplementary feeding), contribute to local variety.

Appendix 6

Table 11: Demographic data from the online questionnaire, complete sample (n = 347).

	Variable	Total sample	
		Count	Percentages
Gender			
	Male	185	53.3
	Female	162	46.7
Age (years)			
	16-20	2	0.6
	21-30	13	3.7
	31-40	43	12.4
	41-50	64	18.4
	51-60	88	25.4
	61-70	94	27.1
	71-80	39	11.2
	Older than 80	4	1.2
Civil status			
	Married	275	79.3
	Relationship	9	2.6
	Cohabitants	20	5.8
	Single/Divorced	40	11.5
	Widowed	3	0.9
Children			
	I have no children	10	2.9
	I have no children living at home	204	58.8
	0-5 years	34	9.8
	6-11 years	35	10.1
	Older than 12 years	64	18.4
Education			
	Unskilled	10	2.9
	Skilled	48	13.8
	Short higher education	22	6.3
	Intermediate higher education	123	35.4
	Long higher education	144	41.5
Occupation			
	Unemployed	4	1.2
	Studying	6	1.7
	Part-time employed	38	11.0
	Full-time employed	193	55.6
	Retired	106	30.5
Upbringing			
	In the countryside	124	35.7
	In the suburbs	109	31.4
	In the city	108	31.1
	Other	6	1.7

Appendix 7

Table 12: Membership data from the online questionnaire, complete sample (n = 347).

Variables	Total sample	
	Count	Percentages
Membership status		
Chairman	18	5.2
Vice chairman	7	2.0
Cashier	10	2.9
Member	292	84.1
Support member	20	5.8
Years (of membership)		
Less than 1 year	36	10.4
1-5 years	115	33.1
More than 5 years	82	23.6
Member since the beginning	114	32.9
Time spent at enclosure related activities		
0-20%	117	33.7
20-40%	32	9.2
40-60%	29	8.4
60-80%	30	8.6
80-100%	111	32.0
I don't know/blank	28	8.1
Time spent on administration(paperwork)		
0-20%	259	74.6
20-40%	22	6.3
40-60%	10	2.9
60-80%	1	0.3
80-100%	2	0.6
I don't know/blank	53	15.3
Time spent on other activities		
0-20%	142	40.9
20-40%	17	4.9
40-60%	4	1.2
60-80%	2	0.6
80-100%	3	0.9
I don't know/blank	179	51.6
Transportation time		
Less than 5 minutes	59	17.0
5-15 minutes	172	49.6
16-30 minutes	76	21.9
31 minutes -1 hour	35	10.1
More than 1 hour	5	1.4
Time spent (incl. Transport)		
Less than 1 hour	171	49.3
1 hour	61	17.6
2 hours	33	9.5

	3 hours	14	4.0
	More than 3 hours	68	19.6
Membership of another voluntary organization			
	Yes	166	47.8
	No	179	51.6
	Blank	2	0.6
Organization			
	Arrenaes grazing organization (AN)	25	7.2
	Bondemosens grazing organization (BM)	23	6.6
	Copenhagen grazing organization (CPH)	25	7.2
	Dalbyhoj grazing organization (DH)	8	2.3
	Furesoe grazing organization (FS)	9	2.6
	Hjortespring nature conservation association (HS)	26	7.5
	Hojmosen grazing organization (HM)	26	7.5
	Jyllinge Holme sheep association (JH)	16	4.6
	Kasted fen grazing and conservation organization (KF)	31	8.9
	Kelleris grazing organization (KR)	10	2.9
	Kodriverne (KD)	2	0.6
	Konusserne (KN)	7	2.0
	Munksoegaard grazing organization (MSG)	1	0.3
	Nivaa sheep breeding association (NSBA)	23	6.6
	Petersminde grazing organization (PM)	9	2.6
	Saerlose grassland forest boar and grazing organization (SG)	12	3.5
	Slaglunde grazing organization (SL)	17	4.9
	Slotsmosens grazing organization (SLM)	3	0.9
	Soellerod nature conservation- & grazing organization (SOR)	12	3.5
	Sondermarkens grazing organization (SOM)	8	2.3
	Soroe grazing organization (SR)	19	5.5
	Svogerslev grazing organization (SVL)	8	2.3
	Taarnby conservation organization (TB)	3	0.9
	The grazing organization of Avedoere salt meadow (AS)	9	2.6
	Utterslev grazing organization (UT)	15	4.3

Appendix 8

Table 13: Responses to all opinion and attitude questions for the total sample, complete sample (n = 347).

Variables	Total sample	
	Count	Percentages
Motivation		
Q1: I am concerned about loss of nature and biodiversity in Denmark		
	Strongly agree	151 43.5
	Agree	129 37.2
	Neither nor	41 11.8
	Disagree	10 2.9
	Strongly disagree	8 2.3
	I don't know/blank	8 2.3
Q2: I feel it is important to take care of / protect / improve nature		
	Strongly agree	217 62.5
	Agree	98 28.2
	Neither nor	13 3.7
	Disagree	4 1.2
	Strongly disagree	3 0.9
	I don't know/blank	12 3.5
Q3: Through my membership, I learn about flora and fauna in Denmark		
	Strongly agree	19 5.5
	Agree	142 40.9
	Neither nor	113 32.6
	Disagree	50 14.4
	Strongly disagree	15 4.3
	I don't know/blank	8 2.3
Q4: Participating in the grazing organization gives me a new perspective on things		
	Strongly agree	41 11.8
	Agree	149 42.9
	Neither nor	104 30.0
	Disagree	21 6.1
	Strongly disagree	9 2.6
	I don't know/blank	23 6.6
Q5: I feel we today do enough to protect nature		
	Strongly agree	10 2.9
	Agree	25 7.2
	Neither nor	37 10.7
	Disagree	154 44.4
	Strongly disagree	112 32.3
	I don't know/blank	9 2.6
Q6: I can share and pass on my knowledge and opinions about nature and animals		
	Strongly agree	57 16.4
	Agree	155 44.7

	Neither nor	90	25.9
	Disagree	25	7.2
	Strongly disagree	6	1.7
	I don't know/blank	14	4.0
Q7: By being a member of the organization I can pass something on to other people			
	Strongly agree	58	16.7
	Agree	159	45.8
	Neither nor	98	28.2
	Disagree	16	4.6
	Strongly disagree	3	0.9
	I don't know/blank	13	3.7
Q8: The organization is, for me, a way to meet new people			
	Strongly agree	20	5.8
	Agree	111	32.0
	Neither nor	124	35.7
	Disagree	52	15.0
	Strongly disagree	29	8.4
	I don't know/blank	11	3.2
Q9: The organizations social arrangements are important to me			
	Strongly agree	27	7.8
	Agree	111	32.0
	Neither nor	131	37.8
	Disagree	48	13.8
	Strongly disagree	21	6.1
	I don't know/blank	9	2.6
Q10: I find that, in the organization, we contribute to the local community			
	Strongly agree	104	30.0
	Agree	149	42.9
	Neither nor	52	15.0
	Disagree	20	5.8
	Strongly disagree	3	0.9
	I don't know/blank	19	5.5
Q11: Through the organization, I have been able to make a difference			
	Strongly agree	41	11.8
	Agree	164	47.3
	Neither nor	97	28.0
	Disagree	16	4.6
	Strongly disagree	7	2.0
	I don't know/blank	22	6.3
Q12: People close to me support my decision to be a member of a grazing organization			
	Strongly agree	82	23.6
	Agree	132	38.0
	Neither nor	93	26.8
	Disagree	9	2.6

	Strongly disagree	2	0.6
	I don't know/blank	29	8.4
Q13: The people close to me believes it is important to make active efforts for nature			
	Strongly agree	58	16.7
	Agree	160	46.1
	Neither nor	86	24.8
	Disagree	19	5.5
	Strongly disagree	3	0.9
	I don't know/blank	21	6.1
Q14: I am member of the organization primarily for the meat and /or wool of the animals			
	Strongly agree	49	14.1
	Agree	96	27.7
	Neither nor	81	23.3
	Disagree	78	22.5
	Strongly disagree	37	10.7
	I don't know/blank	6	1.7
Q15: I am member of the organization, to associate/be with others			
	Strongly agree	10	2.9
	Agree	65	18.7
	Neither nor	147	42.4
	Disagree	75	21.6
	Strongly disagree	39	11.2
	I don't know/blank	11	3.2
Q16: I am a member of the organization, because I enjoy spending time outdoors			
	Strongly agree	91	26.2
	Agree	172	49.6
	Neither nor	51	14.7
	Disagree	15	4.3
	Strongly disagree	6	1.7
	I don't know/blank	12	3.5
Q17: I am a member of the organization, because it provides good stories to tell family, friends and acquaintances			
	Strongly agree	23	6.6
	Agree	105	30.3
	Neither nor	122	35.2
	Disagree	62	17.9
	Strongly disagree	22	6.3
	I don't know/blank	13	3.7
Q18: I expect to be a member of the organization, for at least the next 5 years			
	Strongly agree	121	34.9
	Agree	155	44.7
	Neither nor	32	9.2
	Disagree	9	2.6

	Strongly disagree	2	0.6
	I don't know/blank	28	8.1
Q19: I consider joining another organization within the next 5 years	Strongly agree	18	5.2
	Agree	58	16.7
	Neither nor	104	30.0
	Disagree	77	22.2
	Strongly disagree	27	7.8
	I don't know/blank	63	18.2
Q20: The organization provides an opportunity to protect and manage an area, I feel connected to	Strongly agree	111	32.0
	Agree	148	42.7
	Neither nor	49	14.1
	Disagree	19	5.5
	Strongly disagree	4	1.2
	I don't know/blank	16	4.6
Q21: My experiences with the organization are personally enriching	Strongly agree	67	19.3
	Agree	175	50.4
	Neither nor	78	22.5
	Disagree	6	1.7
	Strongly disagree	5	1.4
	I don't know/blank	16	4.6
Q22: The opinions, of people in my circle, are important to me	Strongly agree	21	6.1
	Agree	147	42.4
	Neither nor	119	34.3
	Disagree	28	8.1
	Strongly disagree	15	4.3
	I don't know/blank	17	4.9
Cause of membership:			
LQ1: We are actively doing something for nature	Very important	134	38.6
	Important	150	43.2
	Neither nor	50	14.4
	Unimportant	5	1.4
	Very unimportant	4	1.2
	I don't know/blank	4	1.2
LQ2: We are activity doing something for animal welfare	Very important	128	36.9
	Important	158	45.5
	Neither nor	48	13.8
	Unimportant	5	1.4
	Very unimportant	3	0.9

	I don't know/blank	5	1.4
LQ3: I am generally concerned about environmental issues	Very important	117	33.7
	Important	144	41.5
	Neither nor	59	17.0
	Unimportant	15	4.3
	Very unimportant	6	1.7
	I don't know/blank	6	1.7
LQ4: I want to conserve and protect nature, for the future generations	Very important	164	47.3
	Important	137	39.5
	Neither nor	33	9.5
	Unimportant	5	1.4
	Very unimportant	3	0.9
	I don't know/blank	5	1.4
LQ5: I want to expand knowledge about nature, nature management and protection to others	Very important	57	16.4
	Important	119	34.3
	Neither nor	117	33.7
	Unimportant	29	8.4
	Very unimportant	11	3.2
	I don't know/blank	14	4.0
Expectations:			
BQ1: That I have influence in organization	Strongly agree	35	10.1
	Agree	152	43.8
	Neither nor	107	30.8
	Disagree	25	7.2
	Strongly disagree	7	2.0
	I don't know/blank	21	6.1
BQ2: That participation and activities are flexible (time spent, knowledge)	Strongly agree	105	30.3
	Agree	178	51.3
	Neither nor	35	10.1
	Disagree	6	1.7
	Strongly disagree	3	0.9
	I don't know/blank	20	5.8
BQ3: That I get a tangible benefit (product or better nature)	Strongly agree	121	34.9
	Agree	172	49.6
	Neither nor	34	9.8
	Disagree	8	2.3
	Strongly disagree	3	0.9
	I don't know/blank	9	2.6

Shared values:

RQ1: The social activities

Strongly agree	52	15.0
Agree	130	37.5
Neither nor	120	34.6
Disagree	20	5.8
Strongly disagree	8	2.3
I don't know/blank	17	4.9

RQ2: Nature management

Strongly agree	171	49.3
Agree	145	41.8
Neither nor	24	6.9
Disagree	2	0.6
Strongly disagree	0	0.0
I don't know/blank	5	1.4

RQ3: Animal welfare

Strongly agree	176	50.7
Agree	147	42.4
Neither nor	17	4.9
Disagree	1	0.3
Strongly disagree	1	0.3
I don't know/blank	5	1.4

RQ4: Quality meat

Strongly agree	175	50.4
Agree	128	36.9
Neither nor	28	8.1
Disagree	3	0.9
Strongly disagree	3	0.9
I don't know/blank	10	2.9

RQ5: Dissemination of nature management

Strongly agree	117	33.7
Agree	158	45.5
Neither nor	57	16.4
Disagree	5	1.4
Strongly disagree	0	0.0
I don't know/blank	10	2.9

Nature relationship:

GQ1: That I spent more time outdoors

Strongly agree	28	8.1
Agree	117	33.7
Neither nor	144	41.5
Disagree	38	11.0
Strongly disagree	9	2.6
I don't know/blank	11	3.2

GQ2: That I appreciate the nature we have in Denmark more

	Strongly agree	51	14.7
	Agree	126	36.3
	Neither nor	131	37.8
	Disagree	24	6.9
	Strongly disagree	6	1.7
	I don't know/blank	9	2.6
GQ3: I do not think. that I enjoy nature more after becoming a member	Strongly agree	32	9.2
	Agree	81	23.3
	Neither nor	114	32.9
	Disagree	86	24.8
	Strongly disagree	22	6.3
	I don't know/blank	12	3.5
GQ4: I do not think, that I spend more time in nature than before joining	Strongly agree	44	12.7
	Agree	114	32.9
	Neither nor	86	24.8
	Disagree	85	24.5
	Strongly disagree	9	2.6
	I don't know/blank	9	2.6
GQ5: Generally, I find more joy in being in and using nature	Strongly agree	37	10.7
	Agree	106	30.5
	Neither nor	159	45.8
	Disagree	29	8.4
	Strongly disagree	7	2.0
	I don't know/blank	9	2.6
GQ6: I think it is an obligation/duty to take care of nature	Strongly agree	146	42.1
	Agree	149	42.9
	Neither nor	35	10.1
	Disagree	6	1.7
	Strongly disagree	4	1.2
	I don't know/blank	7	2.0

Appendix 9

Table 14: The loadings for all nine factors found in the factor analysis.

Question	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 6	Factor 7	Factor 8	Factor 9
Q8	0.71								
Q9	0.75								
Q15	0.08								
Q6		0.55							
Q7		0.73							
Q11		0.56							
Q13			0.95						
Q1				0.84					
Q3					0.94				
Q16						0.93			
Q21							0.5		
Q20								0.9	
Q14									0.56
Q2				0.44					
Q4		0.38							
Q5				-0.31					
Q10		0.37							
Q12							0.31		
Q17									0.38
Q18							0.45		
Q19							0.32		
Q22									0.28

Q1: I am concerned about loss of nature and biodiversity in Denmark, Q2: I feel it is important to take care of / protect / improve nature, Q3: Through my membership, I learn about flora and fauna in Denmark, Q4: Participating in the grazing organization gives me a new perspective on things, Q5: I feel we today do enough to protect nature, Q6: I can share and pass on my knowledge and opinions about nature and animals, Q7: By being a member of the organization I can pass something on to other people, Q8: The organization is, for me, a way to meet new people, Q9: The organizations social arrangements are important to me, Q10: I find that, in the organization, we contribute to the local community, Q11: Through the organization, I have been able to make a difference, Q12: People in close to me support my decision to be a member of a grazing organization, Q13: The people close to me believes it is important to make active efforts for nature, Q14: I am member of the organization primarily for the meat and /or wool of the animals, Q15: I am member of the organization, to associate/be with others, Q16: I am a member of the organization, because I enjoy spending time outdoors, Q17: I am a member of the organization because it provides good stories to tell family, friends and acquaintances, Q18: I expect to be a member of the organization, for at least the next 5 years, Q19: I consider joining another organization within the next 5 years, Q20: The organization provides an opportunity to protect and manage an area, I feel connected to, Q21: My experiences with the organization are personally enriching, Q22: The opinions, of people in my circle, are important to me.

Appendix 10

Table 15: Ordinal regression result, based on the CLM model, when using backward reduction.

BACKWARD REDUCTION										
Question	Variable	Df	Pr(>Chi)	Sign.	Question	Variable	Df	Pr(>Chi)	Sign.	
Q1: I am concerned about loss of nature and biodiversity in Denmark					Q11: Through the organization, I have been able to make a difference					
	Organization	24	0.005	**		Education	4	0.03	*	
	Other	6	0.04	*		Membership status	4	0.007	**	
Q2: I feel it is important to take care of / protect / improve nature					Q12: People in close to me support my decision to be a member of a grazing organization					
	Gender	1	0.03	*		Gender	1	0.01	*	
	Education	4	0.009	**		Membership status	4	0.008	**	
	Time use	4	0.02	*	Q13: The people close to me believes it is important to make active efforts for nature					
Q3: Through my membership, I learn about flora and fauna in Denmark					None					
	Age	7	0.004	**	Q14: I am member of the organization primarily for the meat and /or wool of the animals					
	Enclosure.	6	0.04	*		Age	7	0.0008	***	
	Years	4	0.02	*		Membership status	4	1.61E-07	***	
Q4: Participating in the grazing organization gives me a new perspective on things						Education	4	0.0001	***	
	Organization	24	0.04	*		Time use	4	0.003	**	
Q5: I feel we today do enough to protect nature					Q15: I am member of the organization, to associate/be with others					
	Gender	1	0.03	*		Organization	24	9.72E-05	***	
	Upbringing	3	0.02	*		Age	7	0.008	**	
	Transportation	4	0.008	**		Gender	1	0.04	*	
	Other.	6	0.005	**		Occupation	4	0.04	*	
Q6: I can share and pass on my knowledge and opinions about nature and animals						Membership status	4	3.24E-05	***	
	Child	4	0.03	*	Q16: I am a member of the organization, because I enjoy spending time outdoors					
	Membership status	4	0.01	*		Civil status	4	0.04	*	

	Enclosure.	6	0.001	**		Enclosure.	6	8.56E-05	***
Q7: By being a member of the organization I can pass something on to other people						Transportation	4	0.01	*
	Enclosure.	6	0.02	*	Q17: I am a member of the organization because it provides good stories to tell family, friends and acquaintances				
Q8: The organization is, for me, a way to meet new people						Gender	1	0.03	*
	Organization	24	3.64E-05	***	Q18: I expect to be a member of the organization, for at least the next 5 years				
	Age	7	4.95E-04	***		Civil status	4	0.03	*
	Occupation	4	0.01	*	Q19: I consider joining another organization within the next 5 years				
	Membership status	4	5.72E-05	***		Occupation	4	0.005	**
Q9: The organizations social arrangements are important to me					Q20: The organization provides an opportunity to protect and manage an area, I feel connected to				
	Organization	24	2.32E-08	***		Child	4	0.001	**
	Occupation	4	0.002	**		Membership status	4	0.02	*
	Membership status	4	0.02	*	Q21: My experiences with the organization are personally enriching				
	Enclosure.	6	0.005	**		Transportation	4	0.008	**
	Other.	6	0.02	*		Organization	24	0.01	*
Q10: I find that, in the organization, we contribute to the local community					Q22: The opinions, of people in my circle, are important to me				
	Transportation	4	8.57E-06	***		Other.	6	0.002	**
						Education	4	2.82E-04	***

Table 16: The results for the post hoc test, for the influencing demographics, found using backward reduction.

POST HOC BACKWARD REDUCTION								
Question				Question				
Q1: I am concerned about loss of nature and biodiversity in Denmark				Q10: I find that, in the organization, we contribute to the local community				
Organization	mean	SE	Group	Transportation	mean	SE.	Group	
Sondermarkens grazing organization (SOM)	-0.2	0.81	a	31 minutes -1 hour	0.3	0.3	a	
Slotsmosens grazing organization (SLM)	0.13	0.99	a	More than 1 hour	0.94	0.85	abc	
Svogerslev grazing organization (SVL)	0.98	0.7	a	16-30 minutes	1.32	0.23	b	
Taarby conservation organization (TB)	1.03	0.99	a	5-15 minutes	1.83	0.18	bc	
Jyllinge Holme sheep association (JH)	1.11	0.49	a	Less than 5 minutes	2.23	0.27	c	
Petersminde grazing organization (PM)	1.24	0.68	a	Q11: Through the organization, I have been able to make a difference				
Soellerod nature conservation- & grazing organization (SOR)	1.28	0.63	a	Education	mean	SE	Group	
Saerlose grassland forest boar and grazing organization (SG)	1.5	0.59	a	Short higher education	0.81	0.45	a	
The grazing organization of Avedoere salt meadow (AS)	1.55	0.73	a	Intermediate higher education	1.55	0.28	ab	
Munksoegaard grazing organization (MSG)	1.65	1.62	a	Long higher education	1.71	0.26	ab	
Bondemosens grazing organization (BM)	1.66	0.51	a	Unskilled	2.18	0.65	ab	
Nivaa sheep breeding association (NSBA)	2	0.49	a	Skilled	2.33	0.36	b	
Slaglunde grazing organization (SL)	2.07	0.57	a	Membership status	mean	SE	Group	
Konusserne (KN)	2.1	0.78	a	Support member	0.75	0.49	a	
Arrenaes grazing organization (AN)	2.2	0.51	a	Member	1.02	0.18	a	
Utterslev grazing organization (UT)	2.22	0.59	a	Cashier	1.82	0.6	a	
Hojmosen grazing organization (HM)	2.27	0.49	a	Chairman	2.11	0.47	a	
Dalbyhoj grazing organization (DH)	2.31	0.9	a	Vice chairman	2.87	0.71	a	
Copenhagen grazing organization (CPH)	2.33	0.51	a	Q12: People in close to me support my decision to be a member of a grazing organization				

Hjortespring nature conservation status index association (HS)	2.46	0.49	a		Gender	mean	SE	Group
Kelleris grazing organization (KR)	2.46	0.68	a		Male	1.23	0.24	a
Kasted fen grazing and conservation organization (KF)	2.73	0.46	a		Female	1.75	0.27	b
Kodriverne (KD)	2.82	1.35	a		Membership status	mean	SE	Group
Soroe grazing organization (SR)	2.95	0.58	a		Support member	0.19	0.43	a
Furesoe grazing organization (FS)	4.49	1.12	a		Chairman	1	0.43	ab
Other	mean	SE	Group		Member	1.28	0.14	ab
40-60%	0.42	1.11	a		Cashier	2.27	0.6	b
0-20%	1.89	0.22	a		Vice chairman	2.71	0.68	b
60-80%	1.98	1.18	a		Q13: The people close to me believes it is important to make active efforts for nature			
20-40%	2.34	0.75	a		None			
Blank	2.5	0.25	a		Q14: I am member of the organization primarily for the meat and /or wool of the animals			
80-100%	2.64	1.24	a		Age	mean	SE	Group
Q2: I feel it is important to take care of / protect / improve nature					Older than 81	-0.96	0.98	ab
Gender	mean	SE	Group		16-20	-0.72	1.3	ab
Male	2.18	0.27	a		71-80	-0.23	0.38	a
Female	2.69	0.3	b		61-70	0.84	0.34	b
Education	mean	SE	Group		51-60	0.89	0.34	b
Short higher education	1.52	0.41	a		41-50	1.02	0.36	b
Skilled	2.32	0.33	ab		21-30	1.08	0.61	ab
Long higher education	2.59	0.26	ab		31-40	1.55	0.41	b
Unskilled	2.72	0.72	ab		Membership status	mean	SE	Group
Intermediate higher education	3.03	0.29	b		Support member	-1.11	0.50	a
Time use	Mean	SE	Group		Vice chairman	0.28	0.74	ab
1 hour	1.79	0.32	a		Chairman	0.29	0.49	ab
3 hours	2.12	0.61	ab		Cashier	1.26	0.59	b
Less than 1 hour	2.33	0.26	ab		Member	1.44	0.26	b

More than 3 hours	2.62	0.32	ab		Education	mean	SE	Group
2 hours	3.31	0.48	b		Long higher education	-0.57	0.34	a
Q3: Through my membership, I learn about flora and fauna in Denmark					Skilled	0.05	0.41	ab
Age	mean	SE	Group		Intermediate higher education	0.17	0.35	b
21-30	-0.58	0.63	a		Short higher education	0.95	0.49	b
41-50	0.2	0.37	a		Unskilled	1.57	0.76	ab
31-40	0.27	0.44	a		Time use	mean	SE	Group
61-70	1	0.38	a		1 hour	-0.21	0.37	a
51-60	1.03	0.38	a		More than 3 hours	0.02	0.35	ab
71-80	1.04	0.46	a		2 hours	0.51	0.4	ab
Older than 81	2.16	1.02	a		Less than 1 hour	0.7	0.34	b
16-20	3.71	1.49	a		3 hours	1.14	0.58	ab
Enclosure.	mean	SE	Group	Q15: I am member of the organization, to associate/be with others		mean	SE	Group
40-60%	0.34	0.53	a		Organization			
0-20%	0.84	0.41	ab		Soellerod nature conservation- & grazing organization (SOR)	0.52	0.67	a
80-100%	0.87	0.39	ab		Hjortespring nature conservation association (HS)	0.89	0.55	ab
I don't know	1.08	0.74	ab		Slaglunde grazing organization (SL)	1.21	0.63	ab
60-80%	1.2	0.53	ab		Copenhagen grazing organization (CPH)	1.37	0.55	ab
20-40%	1.96	0.5	b		Bondemosens grazing organization (BM)	1.47	0.61	ab
Years	mean	SE	Group		Kasted fen grazing and conservation organization (KF)	1.57	0.53	ab
Less than 1 years	0.08	1.37	a		Nivaa sheep breeding association (NSBA)	1.62	0.57	ab
Less than 1 year	0.74	0.45	a		Soroe grazing organization (SR)	1.71	0.64	ab
1-5 years	1.13	0.34	a		Sondermarkens grazing organization (SOM)	1.46	0.82	abc
More than 5 years	1.73	0.37	a		Slotsmosens grazing organization (SLM)	1.72	1.25	abc
I have been here since the beginning	1.83	0.34	a		Furesoe grazing organization (FS)	1.91	0.71	abc
Q4: Participating in the grazing organization gives me a new perspective on things					Petersminde grazing organization (PM)	1.92	0.74	abc
Organization	mean	SE	Group		Taarby conservation organization (TB)	2.03	1.1	abc

Nivaa sheep breeding association (NSBA)	-0.25	0.42	a	Hojmosen grazing organization (HM)	2.24	0.6	abc
Utterslev grazing organization (UT)	0.25	0.46	ab	Dalbyhoj grazing organization (DH)	2.29	0.77	abc
The grazing organization of Avedoere salt meadow (AS)	0.49	0.63	ab	The grazing organization of Avedoere salt meadow (AS)	2.31	0.79	abc
Hjortespring nature conservation association (HS)	0.56	0.39	ab	Kodriverne (KD)	2.61	1.28	abc
Taarnby conservation organization (TB)	0.59	0.95	ab	Jyllinge Holme sheep association (JH)	2.62	0.65	abc
Slotsmosens grazing organization (SLM)	0.59	0.95	ab	Munksoegaard grazing organization (MSG)	2.64	1.75	abc
Jyllinge Holme sheep association (JH)	0.61	0.45	ab	Utterslev grazing organization (UT)	2.65	0.64	abc
Saerlose grassland forest boar and grazing organization (SG)	0.67	0.58	ab	Arrenaes grazing organization (AN)	2.7	0.57	abc
Slaglunde grazing organization (SL)	0.67	0.43	ab	Kelleris grazing organization (KR)	2.76	0.74	abc
Petersminde grazing organization (PM)	0.68	0.57	ab	Konusserne (KN)	2.84	0.83	abc
Bondemosens grazing organization (BM)	0.73	0.38	ab	Svogerslev grazing organization (SVL)	3.62	0.79	bc
Copenhagen grazing organization (CPH)	0.78	0.37	ab	Saerlose grassland forest boar and grazing organization (SG)	4.87	0.79	c
Soellerod nature conservation- & grazing organization (SOR)	0.91	0.55	ab	Gender	mean	SE	Group
Svogerslev grazing organization (SVL)	0.99	0.65	ab	Female	1.91	0.45	a
Kasted fen grazing and conservation organisation (KF)	1.12	0.34	ab	Male	2.37	0.45	b
Furesoe grazing organization (FS)	1.5	0.6	ab	Membership status	mean	SE	Group
Sondermarkens grazing organization (SOM)	1.55	0.72	ab	Support member	0.06	0.6	a
Hojmosen grazing organization (HM)	1.62	0.4	ab	Member	1.48	0.36	ab
Dalbyhoj grazing organization (DH)	1.72	0.68	ab	Chairman	2.33	0.58	bc
Soroe grazing organization (SR)	1.78	0.43	ab	Vice chairman	2.86	1	abc
Arrenaes grazing organization (AN)	1.88	0.4	b	Cashier	3.98	0.74	c
Munksoegaard grazing organization (MSG)	1.99	1.67	ab	Age	mean	SE	Group
Kodriverne (KD)	1.99	1.18	ab	21-30	0.28	0.63	a
Konusserne (KN)	2.05	0.73	ab	31-40	1.07	0.45	a

Kelleris grazing organization (KR)	2.26	0.58	ab		41-50	1.28	0.44	ab
Q5: I feel we today do enough to protect nature					51-60	1.69	0.42	ab
Gender	mean	SE	Group		61-70	1.84	0.44	ab
Female	-0.86	0.38	a		71-80	2.44	0.59	ab
Male	-0.41	0.37	b		Older than 81	2.74	1.11	ab
Upbringing	mean	SE	Group		16-20	5.81	1.55	b
Other	-1.26	0.78	ab		Occupation	mean	SE	Group
In the city	-0.78	0.36	a		Retired	1.1	0.44	a
In the suburbs	-0.47	0.38	ab		Full-time employed	1.43	0.4	a
In the countryside	-0.01	0.37	b		Part-time employed	1.86	0.49	a
Transportation	mean	SE	Group		Studying	3.08	0.84	a
16-30 minutes	-0.6	0.36	ab		Unemployed	3.25	1.05	a
31 minutes -1 hour	-1.6	0.47	a	Q16: I am a member of the organization, because I enjoy spending time outdoors				
5-15 minutes	-0.66	0.37	ab		Civil status	mean	SE	Group
Less than 5 minutes	-0.05	0.41	b		Widowed	0.31	1	a
More than 1 hour	-0.24	0.9	ab		Relationship	0.86	0.72	a
Other.	mean	SE	Group		Married	1.31	0.25	a
0-20%	-1.03	0.28	a		Single/Divorced	1.93	0.41	a
20-40%	0.42	0.5	b		Cohabitants	2.35	0.46	a
40-60%	-1.17	0.92	ab		Enclosure.	mean	SE	Group
60-80%	0.54	1.17	ab		0-20%	0.66	0.35	a
80-100%	-2.14	1.11	ab		I don't know	0.72	0.72	ab
I don't know	-0.95	0.29	ab		40-60%	1.4	0.48	ab
Q6: I can share and pass on my knowledge and opinions about nature and animals					80-100%	1.61	0.36	b
Child	mean	SE	Group		20-40%	2.12	0.46	b
0-5 years	1.28	0.4	a		60-80%	2.15	0.47	b
I have no children	1.48	0.66	ab		Transportation	mean	SE	Group
Older than 12 years	2.11	0.35	ab		More than 1 hour	-0.14	0.96	ab

I have no children living at home	2.32	0.28	b	31 minutes -1 hour	0.98	0.41	a
6-11 years	2.44	0.41	ab	16-30 minutes	1.88	0.36	ab
Membership status	mean	SE	Group	5-15 minutes	1.95	0.33	b
Member	1.17	0.22	a	Less than 5 minutes	2.08	0.4	ab
Support member	1.27	0.44	ab	Q17: I am a member of the organization because it provides good stories to tell family, friends and acquaintances			
Cashier	1.56	0.6	ab	Gender	mean	SE	Group
Chairman	2.59	0.52	b	Female	0.42	0.16	a
Vice chairman	3.05	0.74	ab	Male	0.84	0.15	b
Enclosure.	mean	SE	Group	Q18: I expect to be a member of the organization, for at least the next 5 years			
Blank	1.45	0.71	ab	Civil status	mean	SE	Group
40-60%	1.47	0.39	a	Relationship	0.13	0.51	a
0-20%	1.55	0.32	a	Cohabitants	1.08	0.44	ab
80-100%	1.63	0.33	a	Single/Divorced	1.44	0.31	ab
60-80%	2.38	0.41	ab	Married	1.64	0.15	b
20-40%	3.15	0.44	b	Widowed	2.98	1.2	ab
Q7: By being a member of the organization I can pass something on to other people				Q19: I consider joining another organization within the next 5 years			
Enclosure.	mean	SE	Group	Retired	-0.85	0.18	a
80-100%	1.16	0.2	a	Unemployed	-0.71	0.85	ab
60-80%	1.4	0.36	ab	Studying	-0.24	0.73	ab
0-20%	1.45	0.21	ab	Part-time employed	-0.06	0.29	ab
40-60%	2.2	0.37	ab	Full-time employed	-0.05	0.14	b
Blank	2.32	0.67	ab	Q20: The organization provides an opportunity to protect and manage an area, I feel connected to			
20-40%	2.33	0.36	b	Child	mean	SE	Group
Q8: The organization is, for me, a way to meet new people				I have no children	0.13	0.61	a
Organization	mean	SE	Group	0-5 years	1.35	0.43	ab
Soellerod nature conservation- & grazing organization (SOR)	1.74	0.79	a	6-11 years	1.81	0.41	ab

Hjortespring nature conservation association (HS)	2.41	0.72	ab	Older than 12 years	2.05	0.39	b
Kasted fen grazing and conservation organization (KF)	2.49	0.69	ab	I have no children living at home	2.29	0.33	b
Copenhagen grazing organization (CPH)	2.62	0.7	ab	Membership status	mean	SE	Group
Kodriverne (KD)	0.64	1.92	abc	Member	0.96	0.22	a
Taarby conservation organization (TB)	1.97	1.15	abc	Cashier	1	0.63	ab
Slotsmosens grazing organization (SLM)	2.62	1.24	abc	Support member	1.18	0.46	ab
Dalbyhoj grazing organization (DH)	2.77	0.87	abc	Vice chairman	2.08	0.77	ab
Nivaa sheep breeding association (NSBA)	2.81	0.74	abc	Chairman	2.41	0.51	b
The grazing organization of Avedoere salt meadow (AS)	3.05	0.95	abc	Transportation	mean	SE	Group
Slaglunde grazing organization (SL)	3.09	0.71	abc	31 minutes -1 hour	0.68	0.39	a
Kelleris grazing organization (KR)	3.28	0.83	abc	More than 1 hour	1.43	0.88	ab
Sondermarkens grazing organization (SOM)	3.31	0.96	abc	16-30 minutes	1.62	0.35	ab
Hojmosen grazing organization (HM)	3.37	0.71	abc	5-15 minutes	1.86	0.29	b
Jyllinge Holme sheep association (JH)	3.38	0.77	abc	Less than 5 minutes	2.06	0.34	b
Soroe grazing organization (SR)	3.51	0.8	abc	Q21: My experiences with the organization are personally enriching			
Bondemosens grazing organization (BM)	3.73	0.75	abc	Soellerod grazing organization (SOR)	-0.01	0.58	a
Konusserne (KN)	4.07	0.93	abc	Slotsmosens grazing organization (SLM)	0.42	1.01	ab
Furesoe grazing organization (FS)	4.09	0.9	abc	Sondermarkens grazing organization (SOM)	0.51	0.72	ab
Petersminde grazing organization (PM)	4.1	0.89	abc	Petersminde grazing organization (PM)	0.94	0.68	ab
Utterslev grazing organization (UT)	4.14	0.78	abc	Bondemosens grazing organization (BM)	1.04	0.5	ab
Munksoegaard grazing organization (MSG)	5.3	1.94	abc	Kodriverne (KD)	1.04	1.26	ab
Arrenaes grazing organization (AN)	4.13	0.73	bc	Utterslev grazing organization (UT)	1.08	0.58	ab
Svogerslev grazing organization (SVL)	5.37	0.99	bc	Nivaa sheep breeding association (NSBA)	1.13	0.51	ab
Saerlose grassland forest boar and grazing organization (SG)	5.35	0.87	c	Hojmosen grazing organization (HM)	1.18	0.49	ab
Age	mean	SE	Group	Slaglunde grazing organization (SL)	1.21	0.55	ab

21-30	1.43	0.75	a	Dalbyhoj grazing organization (DH)	1.43	0.73	ab
31-40	2.16	0.62	ab	Kasted fen grazing and conservation organization (KF)	1.47	0.42	ab
41-50	2.51	0.62	abc	Copenhagen grazing organization (CPH)	1.65	0.48	ab
51-60	2.94	0.6	abc	Arrenaes grazing organization (AN)	1.96	0.49	ab
Older than 81	3.48	1.17	abc	Konusserne (KN)	2.01	0.8	ab
61-70	3.69	0.64	c	The grazing organization of Avedoere salt meadow (AS)	2.01	0.74	ab
71-80	3.96	0.78	bc	Taarnby conservation organization (TB)	2.12	1.24	ab
16-20	6.5	1.61	bc	Jyllinge Holme sheep association (JH)	2.21	0.55	ab
Occupation	mean	SE	Group	Munksoegaard grazing organization (MSG)	2.23	1.76	ab
Retired	2.02	0.58	a	Svogerslev grazing organization (SVL)	2.37	0.75	ab
Full-time employed	2.68	0.61	a	Hjortespring nature conservation association (HS)	2.4	0.46	b
Part-time employed	2.99	0.68	a	Saerlose grassland forest boar and grazing organization (SG)	2.42	0.66	ab
Studying	4.15	0.96	a	Furesoe grazing organization (FS)	2.53	0.71	ab
Unemployed	4.83	1.14	a	Soroe grazing organization (SR)	2.7	0.54	b
Membership status	mean	SE	Group	Kelleris grazing organization (KR)	2.88	0.69	ab
Support member	1.2	0.73	a	Other.	mean	SE	Group
Member	2.94	0.6	b	40-60%	-0.82	0.81	a
Chairman	3.21	0.74	bc	0-20%	1.46	0.21	ab
Vice chairman	4.32	0.95	bc	I don't know	1.84	0.23	bc
Cashier	4.99	0.88	c	60-80%	2.02	1.28	abc
Q9: The organizations social arrangements are important to me				80-100%	2.03	1.16	abc
Organization	mean	SE	Group	20-40%	3.18	0.54	c
Soellerod grazing organization (SOR)	0.1	0.7	a	Q22: The opinions, of people in my circle, are important to me			
Copenhagen grazing organization (CPH)	0.72	0.57	ab	Education	mean	SE	Group
Sondermarkens grazing organization (SOM)	0.26	0.81	abc	Unskilled	-0.21	0.55	ab
Nivaa sheep breeding association (NSBA)	0.82	0.59	abc	Short higher education	0.03	0.4	a

Hjortespring nature conservation association (HS)	0.96	0.6	abcd	Skilled	0.13	0.26	a
The grazing organization of Avedoere salt meadow (AS)	0.72	0.83	abcd	Intermediate higher education	0.92	0.19	ab
Taarby conservation organization (TB)	1.01	1.11	abcd	Long higher education	1.22	0.18	b
Dalbyhoj grazing organization (DH)	1.16	0.8	abcd				
Kasted fen grazing and conservation organisation (KF)	1.34	0.56	abcd				
Slaglunde grazing organization (SL)	1.54	0.64	abcd				
Petersminde grazing organization (PM)	1.63	0.8	abcd				
Hojmosen grazing organization (HM)	1.84	0.63	abcd				
Slotsmosens grazing organization (SLM)	2.08	1.14	abcd				
Soroe grazing organization (SR)	2.11	0.68	abcd				
Kelleris grazing organization (KR)	2.24	0.75	abcd				
Furesoe grazing organization (FS)	2.26	0.79	abcd				
Munksoegaard grazing organization (MSG)	2.29	1.77	abcd				
Svogerslev grazing organization (SVL)	3.03	0.88	abcd				
Kodriverne (KD)	3.64	1.38	abcd				
Konusserne (KN)	3.7	0.97	abcd				
Arrenaes grazing organization (AN)	2.5	0.62	bcd				
Utterslev grazing organization (UT)	3.17	0.69	cd				
Saerlose grassland forest boar and grazing organization (SG)	3.43	0.77	cd				
Bondemosens grazing organization (BM)	3.3	0.69	d				
Jyllinge Holme sheep association (JH)	3.57	0.69	d				
Occupation	mean	SE	Group				
Full-time employed	1.12	0.44	a				
Unemployed	1.92	1.06	ab				
Part-time employed	1.94	0.53	ab				
Retired	1.99	0.45	b				

Studying	2.92	0.91	ab
Membership status	mean	SE	Group
Support member	0.45	0.65	a
Member	1.46	0.42	ab
Chairman	2.28	0.68	ab
Cashier	2.62	0.78	ab
Vice chairman	3.08	0.9	b
Enclosure.	mean	SE	Group
0-20%	1.35	0.52	a
80-100%	1.5	0.55	ab
I don't know	1.81	0.85	ab
60-80%	2.14	0.57	ab
20-40%	2.74	0.61	b
40-60%	2.94	0.57	b
Other.	mean	SE	Group
60-80%	0.98	1.35	ab
80-100%	1.28	1.19	ab
40-60%	1.54	1.11	ab
0-20%	2	0.41	a
I don't know	2.82	0.42	b
20-40%	2.89	0.67	ab

Appendix 11

Table 17: Kruskal Wallis test results for the 22 motivation questions.

Kruskal Wallis test - Motivation				
Question	Test value	df	P value	Sign
Q1: I am concerned about loss of nature and biodiversity in Denmark	36.32	24	0.05	
Q2: I feel it is important to take care of / protect / improve nature	32.34	24	0.12	
Q3: Through my membership, I learn about flora and fauna in Denmark	34.71	24	0.07	
Q4: Participating in the grazing organization gives me a new perspective on things	27.73	24	0.27	
Q5: I feel we today do enough to protect nature	42.14	24	0.01	*
Q6: I can share and pass on my knowledge and opinions about nature and animals	28.56	23	0.20	
Q7: By being a member of the organization I can pass something on to other people	28.43	23	0.20	
Q8: The organization is, for me, a way to meet new people	63.39	24	2.09e-05	***
Q9: The organizations social arrangements are important to me	83.78	24	1.51e-08	***
Q10: I find that, in the organization, we contribute to the local community	71.58	23	6.91e-07	***
Q11: Through the organization, I have been able to make a difference	42.92	23	0.007	**
Q12: People in close to me support my decision to be a member of a grazing organization	18.02	24	0.80	
Q13: The people close to me believes it is important to make active efforts for nature	22.20	24	0.57	
Q14: I am member of the organization primarily for the meat and /or wool of the animals	88.16	24	2.90e-09	***
Q15: I am member of the organization, to associate/be with others	61.08	24	4.50e-05	***
Q16: I am a member of the organization, because I enjoy spending time outdoors	52.11	24	0.0008	***
Q17: I am a member of the organization because it provides good stories to tell family, friends and acquaintances	36.73	24	0.05	
Q18: I expect to be a member of the organization, for at least the next 5 years	26.35	24	0.34	
Q19: I consider joining another organization within the next 5 years	29.71	23	0.16	
Q20: The organization provides an opportunity to protect and manage an area, I feel connected to	46.42	24	0.004	**
Q21: My experiences with the organization are personally enriching	40.19	24	0.02	*
Q22: The opinions, of people in my circle, are important to me	26.73	24	0.32	

Table 18: Dunn's post hoc test for the significant results from the Kruskal Wallis test, for the 22 motivation questions.

DUNS POST HOC TEST									
Question	Comparison	Z	P.adj	Sign	Question	Comparison	Z	P.adj	Sign
Q5: I feel we today do enough to protect nature					Q14: I am member of the organization primarily for the meat and /or wool of the animals				
	Copenhagen grazing organization (CPH) - Jyllinge Holme sheep association (JH)	-3.62	0.02	*		Furesoe grazing organization (FS) - Slaglunde grazing organization (SL)	-4.43	9.27E-04	***
	Dalbyhoj grazing organization (DH) - Jyllinge Holme sheep association (JH)	-3.80	0.01	*		Hojmosen grazing organization (HM) - Slaglunde grazing organization (SL)	-4.64	0.001	**
	Jyllinge Holme sheep association (JH) - Kasted fen grazing and conservation organization (KF)	3.64	0.02	*		Slaglunde grazing organization (SL) - Soroe grazing organization (SR)	4.30	0.001	**
	Jyllinge Holme sheep association (JH) - Kelleris grazing organization (KR)	3.36	0.04	*		Slaglunde grazing organization (SL) - Utterslev grazing organization (UT)	4.16	0.002	**
	Jyllinge Holme sheep association (JH) - Soroe grazing organization (SR)	3.95	0.01	*		Jyllinge Holme sheep association (JH) - Slaglunde grazing organization (SL)	-4.01	0.003	**
Q8: The organization is, for me, a way to meet new people						Furesoe grazing organization (FS) - Slotsmosens grazing organization (SLM)	-3.64	0.007	**
	Arrenaes grazing organization (AN) - Kasted fen grazing and conservation organization (KF)	3.24	0.03	*		Bondemosens grazing organization (BM) - Furesoe grazing organization (FS)	3.69	0.007	**
	Copenhagen grazing organization (CPH) - Saerloase grassland forest boar and grazing organization (SG)	-3.53	0.02	*		Bondemosens grazing organization (BM) - Hojmosen grazing organization (HM)	3.75	0.007	**
	Hjortespring nature conservation association (HS) - Saerloase grassland forest boar and grazing organization (SG)	-3.74	0.01	*		Bondemosens grazing organization (BM) - Nivaa sheep breeding association (NSBA)	3.66	0.007	**
	Kasted fen grazing and conservation organization (KF) - Saerloase grassland forest boar and grazing organization (SG)	-3.99	0.006	**		Copenhagen grazing organization (CPH) - Slaglunde grazing organization (SL)	-3.70	0.008	**

Nivaa sheep breeding association (NSBA) - Saerlose grassland forest boar and grazing organization (SG)	-3.18	0.03	*	Bondemosens grazing organization (BM) - Soroe grazing organization (SR)	3.42	0.01	*
Arrenaes grazing organization (AN) - Soellerod nature conservation- & grazing organization (SOR)	3.74	0.01	*	Furesoe grazing organization (FS) - Konusserne (KN)	-3.44	0.01	*
Bondemosens grazing organization (BM) - Soellerod nature conservation- & grazing organization (SOR)	3.56	0.02	*	Furesoe grazing organization (FS) - Soellerod nature conservation- & grazing organization (SOR)	-3.46	0.01	*
Furesoe grazing organization (FS) - Soellerod nature conservation- & grazing organization (SOR)	3.38	0.02	*	Hjortespring nature conservation association (HS) - Slaglunde grazing organization (SL)	-3.37	0.01	*
Konusserne (KN) - Soellerod nature conservation- & grazing organization (SOR)	3.08	0.04	*	Nivaa sheep breeding association (NSBA) - Slotsmosens grazing organization (SLM)	-3.35	0.01	*
Saerlose grassland forest boar and grazing organization (SG) - Soellerod nature conservation- & grazing organization (SOR)	4.41	0.003	**	Hojmosen grazing organization (HM) - Slotsmosens grazing organization (SLM)	-3.39	0.01	*
Copenhagen grazing organization (CPH) - Svogerslev grazing organization (SVL)	-3.15	0.03	*	Bondemosens grazing organization (BM) - Utterslev grazing organization (UT)	3.32	0.01	*
Hjortespring nature conservation association (HS) - Svogerslev grazing organization (SVL)	-3.33	0.02	*	Slotsmosens grazing organization (SLM) - Soroe grazing organization (SR)	3.28	0.01	*
Kasted fen grazing and conservation organization (KF) - Svogerslev grazing organization (SVL)	-3.53	0.02	*	Slotsmosens grazing organization (SLM) - Utterslev grazing organization (UT)	3.31	0.01	*
Soellerod nature conservation- & grazing organization (SOR) - Svogerslev grazing organization (SVL)	-4.03	0.008	**	Hojmosen grazing organization (HM) - Soellerod nature conservation- & grazing organization (SOR)	-3.29	0.02	*
Soellerod nature conservation- & grazing organization (SOR) - Utterslev grazing organization (UT)	-3.35	0.02	*	Nivaa sheep breeding association (NSBA) - Soellerod nature conservation- & grazing organization (SOR)	-3.23	0.02	*
Q9: The organizations social arrangements are important to me				Arrenaes grazing organization (AN) - Slaglunde grazing organization (SL)	-3.20	0.02	*

Bondemosens grazing organization (BM) - Copenhagen grazing organization (CPH)	3.51	0.008	**	Hojmosen grazing organization (HM) - Konusserne (KN)	-3.21	0.02	*
Arrenaes grazing organization (AN) - Hjortespring nature conservation association (HS)	2.99	0.03	*	Jyllinge Holme sheep association (JH) - Slotsmosens grazing organization (SLM)	-3.18	0.02	*
Bondemosens grazing organization (BM) - Hjortespring nature conservation association (HS)	3.84	0.004	**	Konusserne (KN) - Nivaa sheep breeding association (NSBA)	3.16	0.02	*
Copenhagen grazing organization (CPH) - Jyllinge Holme sheep association (JH)	-4.16	0.001	**	Dalbyhoj grazing organization (DH) - Furesoe grazing organization (FS)	3.13	0.02	*
Hjortespring nature conservation association (HS) - Jyllinge Holme sheep association (JH)	-4.47	4.72E-04	***	Bondemosens grazing organization (BM) - Jyllinge Holme sheep association (JH)	3.13	0.02	*
Hojmosen grazing organization (HM) - Jyllinge Holme sheep association (JH)	-3.07	0.02	*	Soellerod nature conservation- & grazing organization (SOR) - Soroe grazing organization (SR)	3.07	0.02	*
Bondemosens grazing organization (BM) - Kasted fen grazing and conservation organization (KF)	3.29	0.01	*	Konusserne (KN) - Soroe grazing organization (SR)	3.04	0.02	*
Jyllinge Holme sheep association (JH) - Kasted fen grazing and conservation organization (KF)	3.98	0.003	**	Konusserne (KN) - Utterslev grazing organization (UT)	3.04	0.02	*
Arrenaes grazing organization (AN) - Nivaa sheep breeding association (NSBA)	2.94	0.03	*	Soellerod nature conservation- & grazing organization (SOR) - Utterslev grazing organization (UT)	3.05	0.02	*
Bondemosens grazing organization (BM) - Nivaa sheep breeding association (NSBA)	3.75	0.005	**	Furesoe grazing organization (FS) - Kasted fen grazing and conservation organization (KF)	-2.99	0.03	*
Jyllinge Holme sheep association (JH) - Nivaa sheep breeding association (NSBA)	4.37	6.20E-04	***	Furesoe grazing organization (FS) - The grazing organization of Avedoere salt meadow (AS)	-2.93	0.03	*
Copenhagen grazing organization (CPH) - Saerlose grassland forest boar and grazing organization (SG)	-3.47	0.009	**	Furesoe grazing organization (FS) - Taarnby conservation organization (TB)	-2.89	0.03	*

Hjortespring nature conservation association (HS) - Saerlose grassland forest boar and grazing organization (SG)	-3.73	0.005	**	Copenhagen grazing organization (CPH) - Slotsmosens grazing organization (SLM)	-2.90	0.03	*
Kasted fen grazing and conservation organization (KF) - Saerlose grassland forest boar and grazing organization (SG)	-3.26	0.01	*	Jyllinge Holme sheep association (JH) - Soellerod nature conservation- & grazing organization (SOR)	-2.87	0.03	*
Nivaa sheep breeding association (NSBA) - Saerlose grassland forest boar and grazing organization (SG)	-3.69	0.005	**	Jyllinge Holme sheep association (JH) - Konusserne (KN)	-2.88	0.03	*
Jyllinge Holme sheep association (JH) - Slaglunde grazing organization (SL)	2.90	0.04	*	Furesoe grazing organization (FS) - Kelleris grazing organization (KR)	-2.84	0.03	*
Arrenaes grazing organization (AN) - Soellerod nature conservation- & grazing organization (SOR)	3.94	0.003	**	Dalbyhoj grazing organization (DH) - Hojmosen grazing organization (HM)	2.85	0.03	*
Bondemosens grazing organization (BM) - Soellerod nature conservation- & grazing organization (SOR)	4.62	5.68E-04	***	Hojmosen grazing organization (HM) - Kasted fen grazing and conservation organization (KF)	-2.85	0.03	*
Kelleris grazing organization (KR) - Soellerod nature conservation- & grazing organization (SOR)	2.98	0.03	*	Dalbyhoj grazing organization (DH) - Nivaa sheep breeding association (NSBA)	2.80	0.04	*
Konusserne (KN) - Soellerod nature conservation- & grazing organization (SOR)	3.45	0.009	**	Kasted fen grazing and conservation organization (KF) - Nivaa sheep breeding association (NSBA)	2.76	0.04	*
Saerlose grassland forest boar and grazing organization (SG) - Soellerod nature conservation- & grazing organization (SOR)	4.53	5.89E-04	***	Bondemosens grazing organization (BM) - Copenhagen grazing organization (CPH)	2.73	0.04	*
Jyllinge Holme sheep association (JH) - Sondermarkens grazing organization (SOM)	3.32	0.01	*	Hjortespring nature conservation association (HS) - Slotsmosens grazing organization (SLM)	-2.71	0.04	*
Saerlose grassland forest boar and grazing organization (SG) - Sondermarkens grazing organization (SOM)	2.92	0.03	*	Q15: I am member of the organization, to associate/be with others			

Soellerod nature conservation- & grazing organization (SOR) - Soroe grazing organization (SR)	-3.18	0.02	*	Arrenaes grazing organization (AN) - Hjortespring nature conservation association (HS)	3.61	0.01	*
Soellerod nature conservation- & grazing organization (SOR) - Svogerslev grazing organization (SVL)	-3.48	0.009	**	Hjortespring nature conservation association (HS) - Jyllinge Holme sheep association (JH)	-3.53	0.01	*
Copenhagen grazing organization (CPH) - Utterslev grazing organization (UT)	-3.40	0.01	*	Hjortespring nature conservation association (HS) - Kelleris grazing organization (KR)	-3.10	0.03	*
Hjortespring nature conservation association (HS) - Utterslev grazing organization (UT)	-3.69	0.005	**	Copenhagen grazing organization (CPH) - Saerlose grassland forest boar and grazing organization (SG)	-3.83	0.01	*
Kasted fen grazing and conservation organization (KF) - Utterslev grazing organization (UT)	-3.18	0.02	*	Hjortespring nature conservation association (HS) - Saerlose grassland forest boar and grazing organization (SG)	-4.74	6.47E-04	***
Nivaa sheep breeding association (NSBA) - Utterslev grazing organization (UT)	-3.62	0.006	**	Hojmosen grazing organization (HM) - Saerlose grassland forest boar and grazing organization (SG)	-3.14	0.03	*
Soellerod nature conservation- & grazing organization (SOR) - Utterslev grazing organization (UT)	-4.50	5.21E-04	***	Kasted fen grazing and conservation organization (KF) - Saerlose grassland forest boar and grazing organization (SG)	-3.68	0.01	*
Q10: I find that, in the organization, we contribute to the local				Nivaa sheep breeding association (NSBA) - Saerlose grassland forest boar and grazing organization (SG)	-3.54	0.02	*
Copenhagen grazing organization (CPH) - Kasted fen grazing and conservation organization (KF)	3.09	0.03	*	Saerlose grassland forest boar and grazing organization (SG) - Slaglunde grazing organization (SL)	3.38	0.02	*
Furesoe grazing organization (FS) - Kasted fen grazing and conservation organization (KF)	4.01	0.002	**	Arrenaes grazing organization (AN) - Soellerod nature conservation- & grazing organization (SOR)	3.52	0.01	*
Hojmosen grazing organization (HM) - Kasted fen grazing and conservation organization (KF)	3.75	0.004	**	Jyllinge Holme sheep association (JH) - Soellerod nature conservation- & grazing organization (SOR)	3.52	0.01	*

Jyllinge Holme sheep association (JH) - Kasted fen grazing and conservation organization (KF)	4.16	0.003	**	Kelleris grazing organization (KR) - Soellerod nature conservation- & grazing organization (SOR)	3.22	0.03	*
Kasted fen grazing and conservation organization (KF) - Nivaa sheep breeding association (NSBA)	-3.54	0.008	**	Saerlose grassland forest boar and grazing organization (SG) - Soellerod nature conservation- & grazing organization (SOR)	4.60	6.40E-04	***
Furesoe grazing organization (FS) - Saerlose grassland forest boar and grazing organization (SG)	3.17	0.02	*	Saerlose grassland forest boar and grazing organization (SG) - Soroe grazing organization (SR)	3.37	0.02	*
Jyllinge Holme sheep association (JH) - Saerlose grassland forest boar and grazing organization (SG)	3.07	0.03	*	Hjortespring nature conservation association (HS) - Svogerslev grazing organization (SVL)	-3.63	0.01	*
Arrenaes grazing organization (AN) - Soellerod nature conservation- & grazing organization (SOR)	3.14	0.03	*	Soellerod nature conservation- & grazing organization (SOR) - Svogerslev grazing organization (SVL)	-3.70	0.02	*
Copenhagen grazing organization (CPH) - Soellerod nature conservation- & grazing organization (SOR)	3.35	0.01	*	Hjortespring nature conservation association (HS) - Utterslev grazing organization (UT)	-3.11	0.03	*
Furesoe grazing organization (FS) - Soellerod nature conservation- & grazing organization (SOR)	4.22	0.003	**	Soellerod nature conservation- & grazing organization (SOR) - Utterslev grazing organization (UT)	-3.18	0.03	*
Hjortespring nature conservation association (HS) - Soellerod nature conservation- & grazing organization (SOR)	3.96	0.002	**	Q16: I am a member of the organization, because I enjoy spending time outdoors			
Hojmosen grazing organization (HM) - Soellerod nature conservation- & grazing organization (SOR)	3.81	0.004	**	Arrenaes grazing organization (AN) - Soellerod nature conservation- & grazing organization (SOR)	3.41	0.02	*
Jyllinge Holme sheep association (JH) - Soellerod nature conservation- & grazing organization (SOR)	4.22	0.007	**	Copenhagen grazing organization (CPH) - Soellerod nature conservation- & grazing organization (SOR)	3.62	0.02	*
Nivaa sheep breeding association (NSBA) - Soellerod nature conservation- & grazing organization (SOR)	3.70	0.005	**	Furesoe grazing organization (FS) - Soellerod nature conservation- & grazing organization (SOR)	3.79	0.01	*

Slotsmosens grazing organization (SLM) - Soellerod nature conservation- & grazing organization (SOR)	2.98	0.04	*	Hojmosen grazing organization (HM) - Soellerod nature conservation- & grazing organization (SOR)	3.35	0.03	*
Furesoe grazing organization (FS) - Sondermarkens grazing organization (SOM)	2.86	0.05	*	Jyllinge Holme sheep association (JH) - Soellerod nature conservation- & grazing organization (SOR)	3.21	0.04	*
Kasted fen grazing and conservation organization (KF) - Soroe grazing organization (SR)	-4.04	0.002	**	Kelleris grazing organization (KR) - Soellerod nature conservation- & grazing organization (SOR)	4.14	0.005	**
Soellerod nature conservation- & grazing organization (SOR) - Soroe grazing organization (SR)	-4.08	0.002	**	Konusserne (KN) - Soellerod nature conservation- & grazing organization (SOR)	3.08	0.04	*
Soellerod nature conservation- & grazing organization (SOR) - Svogerslev grazing organization (SVL)	-3.23	0.02	*	Saerlose grassland forest boar and grazing organization (SG) - Soellerod nature conservation- & grazing organization (SOR)	3.93	0.01	*
Kasted fen grazing and conservation organization (KF) - Utterslev grazing organization (UT)	-3.97	0.002	**	Soellerod nature conservation- & grazing organization (SOR) - Soroe grazing organization (SR)	-3.59	0.02	*
Saerlose grassland forest boar and grazing organization (SG) - Utterslev grazing organization (UT)	-2.92	0.04	*	Soellerod nature conservation- & grazing organization (SOR) - Svogerslev grazing organization (SVL)	-3.43	0.03	*
Soellerod nature conservation- & grazing organization (SOR) - Utterslev grazing organization (UT)	-4.08	0.003	**	Q21: My experiences with the organization are personally enriching			
Q11: Through the organization, I have been able to make a difference				Hjortespring nature conservation association (HS) - Soellerod nature conservation- & grazing organization (SOR)	3.84	0.02	*
Soellerod nature conservation- & grazing organization (SOR) - Soroe grazing organization (SR)	-3.59	0.04	*	Kelleris grazing organization (KR) - Soellerod nature conservation- & grazing organization (SOR)	3.60	0.02	*
				Arrenaes grazing organization (AN) - Soellerod nature conservation- & grazing organization (SOR)	3.51	0.03	*

Saerlose grassland forest boar and grazing organization (SG) - Soellerod nature conservation- & grazing organization (SOR)	3.61	0.03	*
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Table 19: Kruskal Wallis test results for the 19 attitude questions.

Kruskal Wallis test - Attitude				
Question	Test value	df	P value	Sign
Cause of membership				
LQ1: We are actively doing something for nature	42.07	24	0.01	*
LQ2: We are activity doing something for animal welfare	25.78	24	0.36	
LQ3: I am generally concerned about environmental issues	49.57	24	0.002	**
LQ4: I want to conserve and protect nature, for the future generations	50.32	24	0.001	**
LQ5: I want to expand knowledge about nature, nature management and protection to others	21.63	24	0.60	
Expectations				
BQ1: That I have influence in organization	39.20	24	0.03	*
BQ2: That participation and activities are flexible (time spent, knowledge)	42.71	24	0.01	*
BQ3: That I get a tangible benefit (product or better nature)	63.45	24	2.05e-05	***
Shared values				
RQ1: The social activities	66.90	24	6.49e-06	***
RQ2: Nature management	44.19	23	0.007	**
RQ3: Animal welfare	40.22	23	0.02	*
RQ4: Quality meat	58.43	24	0.0001	***
RQ5: Dissemination of nature management	41.51	24	0.01	*
Nature relationship				
GQ1: That I spent more time outdoors	33.60	24	0.09	
GQ2: That I appreciate the nature we have in Denmark more	31.42	24	0.14	
GQ3: I do not think. that I enjoy nature more after becoming a member	30.08	24	0.18	
GQ4: I do not think, that I spend more time in nature than before joining	39.63	24	0.02	*
GQ5: Generally, I find more joy in being in and using nature	42.67	24	0.01	*
GQ6: I think it is an obligation/duty to take care of nature	18.52	23	0.78	

Table 20: Dunn's post hoc test for the significant results for Kruskal Wallis tests on the 19 attitude questions.

DUNN'S TEST										
Question	Comparison	Z	P.adj	Sign	Question	Comparison	Z	P.adj	Sign	
LQ1: We are actively doing something for nature	None				RQ2: Nature management	None				
LQ3: I am generally concerned about environmental issues	Arrenaes grazing organization (AN) - Jyllinge Holme sheep association (JH)	4.06	0.01	*	RQ3: Animal welfare	None				
	Jyllinge Holme sheep association (JH) - Kasted fen grazing and conservation organization (KF)	-3.71	0.03	*	RQ4: Quality meat	Dalbyhoj grazing organization (DH) - Furesoe grazing organization (FS)	3.52	0.02	*	
LQ4: I want to conserve and protect nature, for the future generations	Bondemosens grazing organization (BM) - Soroe grazing organization (SR)	-3.60	0.04	*		Dalbyhoj grazing organization (DH) - Hojmosen grazing organization (HM)	3.25	0.03	*	
BQ1: That I have influence in organization	Arrenaes grazing organization (AN) - Jyllinge Holme sheep association (JH)	4.06	0.01			Furesoe grazing organization (FS) - Konusserne (KN)	-3.39	0.02	*	
	Jyllinge Holme sheep association (JH) - Kasted fen grazing and conservation organization (KF)	-3.71	0.03			Hojmosen grazing organization (HM) - Konusserne (KN)	-3.09	0.04	*	
BQ2: That participation and activities are flexible (time spent, knowledge)	None					Dalbyhoj grazing organization (DH) - Nivaa sheep breeding association (NSBA)	3.71	0.03	*	
						Konusserne (KN) - Nivaa sheep breeding association (NSBA)	3.54	0.02	*	
BQ3: That I get a tangible benefit (product or better nature)						Furesoe grazing organization (FS) - Saerloase grassland forest boar and grazing organization (SG)	-3.22	0.03	*	
						Nivaa sheep breeding association (NSBA) - Saerloase grassland forest boar and grazing organization (SG)	-3.47	0.02	*	

Slaglunde grazing organization (SL) - Soroe grazing organization (SR)	4.23	0.004	**	Furesoe grazing organization (FS) - Slaglunde grazing organization (SL)	-3.65	0.03	*
Nivaa sheep breeding association (NSBA) - Slaglunde grazing organization (SL)	-4.03	0.006	**	Hojmosen grazing organization (HM) - Slaglunde grazing organization (SL)	-3.50	0.02	*
Jyllinge Holme sheep association (JH) - Slaglunde grazing organization (SL)	-4.27	0.006	**	Nivaa sheep breeding association (NSBA) - Slaglunde grazing organization (SL)	-4.11	0.01	*
Jyllinge Holme sheep association (JH) - Saerlose grassland forest boar and grazing organization (SG)	-3.83	0.008	**	Dalbyhoj grazing organization (DH) - Soroe grazing organization (SR)	3.37	0.02	*
Saerlose grassland forest boar and grazing organization (SG) - Soroe grazing organization (SR)	3.77	0.008	**	Konusserne (KN) - Soroe grazing organization (SR)	3.21	0.03	*
Hojmosen grazing organization (HM) - Slaglunde grazing organization (SL)	-3.85	0.009	**	Saerlose grassland forest boar and grazing organization (SG) - Soroe grazing organization (SR)	3.07	0.04	*
Nivaa sheep breeding association (NSBA) - Saerlose grassland forest boar and grazing organization (SG)	-3.55	0.02	*	Slaglunde grazing organization (SL) - Soroe grazing organization (SR)	3.65	0.02	*
Hojmosen grazing organization (HM) - Saerlose grassland forest boar and grazing organization (SG)	-3.39	0.02	*	Dalbyhoj grazing organization (DH) - Utterslev grazing organization (UT)	3.04	0.04	*
Bondemosens grazing organization (BM) - Slaglunde grazing organization (SL)	-3.41	0.02	*	Slaglunde grazing organization (SL) - Utterslev grazing organization (UT)	3.18	0.03	*
RQ1: The social activities				RQ5: Dissemination of nature management			
Arrenaes grazing organization (AN) - Copenhagen grazing organization (CPH)	3.02	0.04	*	None			
Copenhagen grazing organization (CPH) - Jyllinge Holme sheep association (JH)	-3.71	0.008	**	GQ4: I do not think, that I spend more time in nature than before joining			
Hjortespring nature conservation association (HS) - Jyllinge Holme sheep association (JH)	-3.33	0.02	*	Bondemosens grazing organization (BM) - Copenhagen grazing organization (CPH)	3.82	0.04	*

Copenhagen grazing organization (CPH) - Saerlose grassland forest boar and grazing organization (SG)	-4.59	6.74E-04	***	GQ5: Generally, I find more joy in being in and using nature
Dalbyhoj grazing organization (DH) - Saerlose grassland forest boar and grazing organization (SG)	-3.27	0.03	*	None
Hjortespring nature conservation association (HS) - Saerlose grassland forest boar and grazing organization (SG)	-4.25	0.002	**	
Hojmosen grazing organization (HM) - Saerlose grassland forest boar and grazing organization (SG)	-3.21	0.03	*	
Kasted fen grazing and conservation organization (KF) - Saerlose grassland forest boar and grazing organization (SG)	-3.78	0.007	**	
Nivaa sheep breeding association (NSBA) - Saerlose grassland forest boar and grazing organization (SG)	-3.85	0.006	**	
Arrenaes grazing organization (AN) - Soellerod nature conservation- & grazing organization (SOR)	3.50	0.01	*	
Jyllinge Holme sheep association (JH) - Soellerod nature conservation- & grazing organization (SOR)	4.10	0.003	**	
Petersminde grazing organization (PM) - Soellerod nature conservation- & grazing organization (SOR)	3.10	0.04	*	
Saerlose grassland forest boar and grazing organization (SG) - Soellerod nature conservation- & grazing organization (SOR)	4.88	3.25E-04	***	
Jyllinge Holme sheep association (JH) - Sondermarkens grazing organization (SOM)	3.17	0.03	*	
Saerlose grassland forest boar and grazing organization (SG) - Sondermarkens grazing organization (SOM)	3.94	0.005	**	
Saerlose grassland forest boar and grazing organization (SG) - Taarnby conservation organization (TB)	3.02	0.04	*	
Copenhagen grazing organization (CPH) - Utterslev grazing organization (UT)	-3.07	0.04	*	
Soellerod nature conservation- & grazing organization (SOR) - Utterslev grazing organization (UT)	-3.54	0.01	*	

Appendix 12

Table 21: The results for the regression of the linear mixed effect model, for the 22 motivation questions influence on nature conservation status index.

Motivation influencing Nature conservation status index Variable	SEPTEMBER				MAY/JUNE			
	Estimate	S.E.	t value	p value	Estimate	S.E.	t value	p value
Q1: I am concerned about loss of nature and biodiversity in Denmark	6.74E-16	7.22E-10	9.33E-07	0.99	-5.99E-16	7.93E-10	-7.55E-07	0.99
Q2: I feel it is important to take care of / protect / improve nature	-1.10E-12	6.41E-08	-1.71E-05	0.99	3.31E-13	7.89E-08	4.20E-06	0.99
Q3: Through my membership, I learn about flora and fauna in Denmark	1.68E-15	7.95E-10	2.11E-06	0.99	2.44E-14	7.67E-08	3.18E-07	0.99
Q4: Participating in the grazing organization gives me a new perspective on things	2.11E-15	6.83E-10	3.10E-06	0.99	-1.37E-15	8.02E-10	-1.70E-06	0.99
Q5: I feel we today do enough to protect nature	4.94E-13	4.61E-08	1.07E-05	0.99	1.39E-15	8.38E-10	1.66E-06	0.99
Q6: I can share and pass on my knowledge and opinions about nature and animals	1.62E-15	6.15E-10	2.63E-06	0.99	-2.50E-15	7.24E-10	-3.45E-06	0.99
Q7: By being a member of the organization I can pass something on to other people	2.58E-15	7.41E-10	3.48E-06	0.99	-1.17E-16	8.19E-10	-1.42E-07	0.99
Q8: The organization is, for me, a way to meet new people	1.67E-15	6.88E-10	2.43E-06	0.99	-2.26E-15	8.47E-10	-2.67E-06	0.99
Q9: The organizations social arrangements are important to me	2.51E-12	6.19E-08	4.05E-05	0.99	1.54E-16	8.01E-10	1.92E-07	0.99
Q10: I find that, in the organization, we contribute to the local community	1.57E-15	6.79E-10	2.31E-06	0.99	-2.99E-15	7.49E-10	-3.99E-06	0.99
Q11: Through the organization, I have been able to make a difference	-1.75E-16	7.35E-10	-2.38E-07	0.99	-1.85E-15	7.52E-10	-2.47E-06	0.99
Q12: People in close to me support my decision to be a member of a grazing organization	1.07E-15	5.79E-10	1.85E-06	0.99	-1.51E-13	5.21E-08	-2.90E-06	0.99
Q13: The people close to me believes it is important to make active efforts for nature	1.66E-15	5.97E-10	2.78E-06	0.99	7.02E-17	7.16E-10	9.80E-08	0.99
Q14: I am member of the organization primarily for the meat and /or wool of the animals	2.03E-15	6.48E-10	3.13E-06	0.99	-6.78E-16	8.53E-10	-7.96E-07	0.99
Q15: I am member of the organization, to associate/be with others	2.96E-15	8.00E-10	3.70E-06	0.99	-1.84E-12	6.69E-08	-2.74E-05	0.99
Q16: I am a member of the organization, because I enjoy spending time outdoors	1.80E-15	7.25E-10	2.48E-06	0.99	1.24E-17	7.20E-10	1.72E-08	0.99
Q17: I am a member of the organization because it provides good stories to tell family, friends and acquaintances	1.42E-12	5.66E-08	2.50E-05	0.99	-1.86E-15	7.11E-10	-2.61E-06	0.99
Q18: I expect to be a member of the organization, for at least the next 5 years	7.83E-16	5.65E-10	1.39E-06	0.99	-1.29E-15	5.65E-10	-2.28E-06	0.99
Q19: I consider joining another organization within the next 5 years	8.17E-16	5.83E-10	1.40E-06	0.99	-5.15E-16	5.39E-10	-9.55E-07	0.99

Q20: The organization provides an opportunity to protect and manage an area, I feel connected to	6.70E-13	4.67E-08	1.43E-05	0.99	-7.17E-16	7.12E-10	-1.01E-06	0.99
Q21: My experiences with the organization are personally enriching	1.61E-15	7.00E-10	2.29E-06	0.99	3.27E-16	8.83E-10	3.70E-07	0.99
Q22: The opinions, of people in my circle, are important to me	1.61E-15	7.00E-10	2.29E-06	0.99	-1.25E-15	7.05E-10	-1.77E-06	0.99
Motivation influencing Nature conservation status index	TOTAL DATA							
Variable	Estimate	S.E.	t value	p value				
Q1: I am concerned about loss of nature and biodiversity in Denmark	-1.21E-15	4.95E-10	-2.44E-06	0.99				
Q2: I feel it is important to take care of / protect / improve nature	-3.18E-15	4.65E-10	-6.84E-06	0.99				
Q3: Through my membership, I learn about flora and fauna in Denmark	-2.77E-15	3.64E-10	-7.61E-06	0.99				
Q4: Participating in the grazing organization gives me a new perspective on things	-7.82E-16	2.97E-10	-2.63E-06	0.99				
Q5: I feel we today do enough to protect nature	-5.05E-16	4.32E-10	-1.17E-06	0.99				
Q6: I can share and pass on my knowledge and opinions about nature and animals	1.24E-12	5.37E-08	2.31E-05	0.99				
Q7: By being a member of the organization I can pass something on to other people	-1.97E-15	4.06E-10	-4.86E-06	0.99				
Q8: The organization is, for me, a way to meet new people	4.84E-13	7.46E-08	6.49E-06	0.99				
Q9: The organizations social arrangements are important to me	-1.76E-15	5.06E-10	-3.47E-06	0.99				
Q10: I find that, in the organization, we contribute to the local community	-2.52E-15	4.36E-10	-5.79E-06	0.99				
Q11: Through the organization, I have been able to make a difference	8.66E-16	3.64E-10	2.38E-06	0.99				
Q12: People in close to me support my decision to be a member of a grazing organization	-3.59E-14	3.96E-08	-9.07E-07	0.99				
Q13: The people close to me believes it is important to make active efforts for nature	-1.62E-15	4.14E-10	-3.91E-06	0.99				
Q14: I am member of the organization primarily for the meat and /or wool of the animals	2.79E-12	4.45E-08	6.28E-05	0.99				
Q15: I am member of the organization, to associate/be with others	5.76E-13	5.32E-08	-1.08E-05	0.99				
Q16: I am a member of the organization, because I enjoy spending time outdoors	-3.87E-15	4.00E-10	-9.68E-06	0.99				
Q17: I am a member of the organization because it provides good stories to tell family, friends and acquaintances	1.19E-16	4.23E-10	2.82E-07	0.99				

Q18: I expect to be a member of the organization, for at least the next 5 years	-5.76E-13	4.13E-08	-1.39E-05	0.99
Q19: I consider joining another organization within the next 5 years	2.14E-16	3.26E-10	6.56E-07	0.99
Q20: The organization provides an opportunity to protect and manage an area, I feel connected to	-2.46E-15	3.72E-10	-6.61E-06	0.99
Q21: My experiences with the organization are personally enriching	9.67E-14	4.19E-08	2.31E-06	0.99
Q22: The opinions, of people in my circle, are important to me	-4.64E-13	5.12E-08	-9.05E-06	0.99

Table 22: Results from regression of the cumulative linked mixed model (CLMM), for nature conservation status indices' influence on motivation. NCSI1: Nature conservation status index for September 2017, NCI2 Nature conservation index May/June 2018, NCSI All: Pooled nature conservation status index for September and May/June.

Nature conservation status index influencing motivation		Estimate	S.E.	z value	Pr(> z)	Sign
Q1: I am concerned about loss of nature and biodiversity in Denmark	NCSI1	-0.40	1.89	-0.21	0.83	
	NCSI2	0.72	1.49	0.48	0.63	
	NCSI ALL	0.49	1.71	0.29	0.77	
Q2: I feel it is important to take care of / protect / improve nature	NCSI1	-1.44	1.83	-0.79	0.43	
	NCSI2	0.95	1.45	0.66	0.51	
	NCSI ALL	-0.13	1.61	-0.08	0.93	
Q3: Through my membership, I learn about flora and fauna in Denmark	NCSI1	2.60	1.45	1.79	0.07	
	NCSI2	-1.16	1.15	-1.01	0.31	
	NCSI ALL	0.82	1.36	0.60	0.55	
Q4: Participating in the grazing organization gives me a new perspective on things	NCSI1	3.60	1.60	2.26	0.02	*
	NCSI2	0.38	1.20	0.31	0.75	
	NCSI ALL	3.38	1.48	2.29	0.02	*
Q5: I feel we today do enough to protect nature	NCSI1	2.09	1.86	1.12	0.26	
	NCSI2	-0.16	1.49	-0.11	0.91	

Q6: I can share and pass on my knowledge and opinions about nature and animals	NCSI ALL	0.82	1.36	0.60	0.55
	NCSI1	1.47	1.65	0.89	0.37
	NCSI2	0.37	1.30	0.28	0.78
	NCSI ALL	1.66	1.47	1.13	0.26
Q7: By being a member of the organization I can pass something on to other people					
	NCSI1	2.23	1.59	1.40	0.16
	NCSI2	-1.47	1.27	-1.16	0.25
	NCSI ALL	0.62	2.39	0.26	0.79
Q8: The organization is, for me, a way to meet new people					
	NCSI1	3.32	2.50	1.33	0.18
	NCSI2	-1.77	1.94	-0.91	0.36
	NCSI ALL	2.84	2.89	0.98	0.33
Q9: The organizations social arrangements are important to me					
	NCSI1	3.96	3.10	1.28	0.20
	NCSI2	-0.38	2.41	-0.16	0.88
	NCSI ALL	-4.32	2.66	-1.62	0.11
Q10 I find that, in the organization, we contribute to the local community					
	NCSI1	-0.49	2.88	-0.17	0.87
	NCSI2	-3.33	2.23	-1.49	0.14
	NCSI ALL	-4.32	2.66	-1.62	0.11
Q11: Through the organization, I have been able to make a difference					
	NCSI1	1.64	2.11	0.78	0.44
	NCSI2	-1.38	1.67	-0.83	0.41
	NCSI ALL	-0.23	1.95	-0.12	0.91
Q12: People in close to me support my decision to be a member of a grazing organization					
	NCSI1	None			
	NCSI2	None			
	NCSI ALL	-0.44	1.26	-0.35	0.72
Q13: The people close to me believes it is important to make active efforts for nature					

	NCSI1	0.10	1.73	0.06	0.96	
	NCSI2	-0.18	1.35	-0.14	0.89	
	NCSI ALL	-0.13	1.47	-0.09	0.93	
Q14: I am member of the organization primarily for the meat and /or wool of the animals						
	NCSI1	-0.72	3.02	-0.24	0.81	
	NCSI2	5.25	2.35	2.23	0.03	*
	NCSI ALL	5.59	2.82	1.98	0.05	
Q15: I am member of the organization, to associate/be with others						
	NCSI1	2.09	1.86	1.12	0.26	
	NCSI2	-0.16	1.49	-0.11	0.91	
	NCSI ALL	1.59	1.71	0.93	0.35	
Q16: I am a member of the organization, because I enjoy spending time outdoors						
	NCSI1	3.28	2.07	1.58	0.11	
	NCSI2	-4.31	1.65	-2.62	0.009	**
	NCSI ALL	-2.24	2.15	-1.04	0.30	
Q17: I am a member of the organization because it provides good stories to tell family, friends and acquaintances						
	NCSI1	None				
	NCSI2	None				
	NCSI ALL	0.08	1.36	0.06	0.95	
Q18: I expect to be a member of the organization, for at least the next 5 years						
	NCSI1	-0.39	1.44	-0.27	0.79	
	NCSI2	-0.21	1.16	-0.18	0.86	
	NCSI ALL	None				
Q19: I consider joining another organization within the next 5 years						
	NCSI1	None				
	NCSI2	None				
	NCSI ALL	0.32	1.21	0.26	0.80	
Q20: The organization provides an opportunity to protect and manage an area, I feel connected to						
	NCSI1	-0.55	2.12	-0.26	0.80	
	NCSI2	-0.30	1.67	-0.18	0.86	

Q21: My experiences with the organization are personally enriching	NCSI ALL	-0.80	1.92	-0.42	0.68
	NCSI1	-0.55	2.12	-0.26	0.80
	NCSI2	-0.30	1.67	-0.18	0.86
	NCSI ALL	-0.01	1.79	-0.01	1.00
Q22: The opinions, of people in my circle, are important to me					
	NCSI1	2.34	1.55	1.52	0.13
	NCSI2	-2.20	1.23	-1.78	0.07
	NCSI ALL	-0.54	1.36	-0.40	0.69

Appendix 13

Table 23 Investigated area sizes, HNV score and Bioscore. The HNV and Bioscore are ranges for the total enclosures.

Name of organization	Investigated area size	HNV score	Bioscore
Arrenaes grazing organization (AN)	8.5 ha	1-6	5-9
Bondemosens grazing organization (BM)	6 ha	4-7	4-5 small part
Copenhagen grazing organization (CPH)	11 ha	5-6	9-15
Dalbyhoj grazing organization (DH)	DH1: 1.3 ha DH2: 1.6	DH1: 6-7, DH2: 6	DH1: 4-6, DH2: 4-6
Furesoe grazing organization (FS)	4 ha	1-8	5-12
Hjortespring nature conservation association (HS)	FTF: 1.5 ha, KDL: 2 ha, HGF: 1.7ha	FTF: 4-6, KDL: 1-3, HGF: 2-5	FTF: 5-8, KDL: 4-5, HGF: 4-5
Hojmosen grazing organization (HM)	4 ha	5-6	5-7
Jyllinge Holme sheep association (JH)	12 ha	7-9	12-14
Kasted fen grazing and conservation organisation (KF)	KF1 + NEW: 3.7 ha, KF2: 1.4	KF1 + NEW: 1-9, KF2: 10	KF1+New:1-10, KF2: 10-12
Kelleris grazing organization (KR)	KR2: 6.2 ha, KR3: 1.5 ha	KR2: 1-2, KR3:0-1	none
Kodriverne (KD)	8.8 ha	5-6	6-7
Konusserne (KN)	2 ha	4-5	1-10
Munksoegaard grazing organization (MSG)	MSG E: 1.4 ha, MSG: F: 7.3 ha	MSG E: 0-3, MSG: F: 4-7	MGS E: none, MGS F: 1-3
Nivaa sheep breeding association (NSBA)	0.3 ha	0-5	1-6
Petersminde grazing organization (PM)	4 ha	3-6	3-8
Saerlose grassland forest boar and grazing organization (SG)	1.5 ha	3-7	2-7
Slaglunde grazing organization (SL)	5.5 ha	4-8	none
Slotsmosens grazing organization (SLM)	4 ha	3-5	1-8
Soellerod grazing organization (SOR)	3.2 ha	3-5	2-11
Sondermarkens grazing organization (SOM)	SOM1: 5 ha	SOM1: 5-10	SOM1:5-11
Soroe grazing organization (SR)	BFO: 2.6 ha, BFL: 3 ha	BFO: 7-8 BFL: 611	BFO: 14, BFL: 15-18
Svogerslev grazing organization (SVL)	SVL G: 5.4 ha, SVL WG: 1 ha	SVL G: 1-2, SVL WG: 1-3	SVL G: 1-5, SVL WG: 1
Taarnby conservation organization (TB)	1 ha	none	7
The grazing organization of Avedoere Salt meadow (AS)	10 ha	8-7	2-4
Utterslev grazing organization (UT)	US1: 1 ha, US2: 1 ha	US1: 3-5, US2: 3-5	none

SVL G: Svogerslev grazing organization grazed part of enclosure, SVL WG: Svogerslev grazing organization ungrazed part of enclosure. FTF: Fugletaarnsfolden, KDF: Klausdalsfolden, HGF: Holmegaardsfolden. BFO: Banefolden and BFL: Bagflommen. HNV Score from arealinfo 2017. Area measured with areal info 2017

Appendix 14

Table 24: Correlations between the demographic variables.

Dependent variable	Independ variable	test value	df	p value	Sign	Dependent variable	Independ variable	test value	df	p value	Sign	
Gender	Occupation	16.38	4	0.003	**	Paperwork	Other	138.03	36	7.21E-14	***	
	Education	16.80	4	0.002	**		Years	29.99	18	0.04	*	
	Membership status	9.80	4	0.04	*		Other	Years	37.32	18	0.005	**
	Years	8.80	3	0.03	*			Years	Voluntary	29.07	9	0.0006
Age	Civil status	80.45	28	5.72E-07	***	Education	Transportation		35.77	16	0.003	**
	Child	28.99	28	4.09E-53	***		Upbringing		Transportation	24.05	12	0.02
	Occupation	263.98	28	3.12E-40	***	Transportation			Time use	33.17	16	0.007
	Education	94.11	28	4.47E-09	***		Membership status	Enclosure	122.93	24	2.91E-15	***
Civil status	Child	42.02	16	0.0004	***	Paperwork		139.99	24	2.34E-18	***	
	Years of membership	27.84	12	0.006	**	Years		36.68	12	0.0003	***	
Child	Occupation	124.23	16	8.4E-19	***	Enclosure	Paperwork	139.99	36	1.22E-33	***	
	Upbringing	22.83	12	0.03	*		Other	165.52	36	1.16E-18	***	
	Transportation	27.86	16	0.03	*		Years	36.72	18	0.006	***	
Occupation	Education	30.26	16	0.02	*							
	Upbringing	26.52	12	0.009	**							
	Transportation	27.74	16	0.03	*							
	Enclosure	40.90	24	0.02	*							
	Other	47.64	24	0.003	**							
	Years	40.68	12	5.55e-05	***							