

Supplementary materiel for *Motivation among conservational grazing volunteers*

Questionnaire

Please see attracted PDF file.

Supplementary data

Table S1: 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

Occupation	Long higher education	144	41.5
	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

Table S2: Membership data from the online questionnaire, complete sample (n = 347).

Variables		Total sample	
Membership status		Count	Percentages
	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

Table S3: 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

<hr/> 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
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	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

Table S4: Result from the post hoc test for the Kruskal Wallis tests and ordinal ANOVA and regressions for the CLM (Cumulative Link Model). The different letters in Group indicates significant difference between the groups.

Social				
The organization is, for me, a way to meet new people				
	Organization	mean	SE	Group
	Soellerod nature conservation- & grazing organization (SOR)	1.74	0.79	a
	Saerlose grassland forest boar and grazing organization (SG)	5.35	0.87	c
	Age	mean	SE	Group
	21-30	1.43	0.75	a
	31-40	2.16	0.62	ab
	41-50	2.51	0.62	abc
	51-60	2.94	0.6	abc
	Older than 81	3.48	1.17	abc
	61-70	3.69	0.64	c
	71-80	3.96	0.78	bc
	16-20	6.5	1.61	bc
The organizations social arrangements are important to me				
	Organization	mean	SE	Group
	Soellerod grazing organization (SOR)	0.1	0.7	a
	Saerlose grassland forest boar and grazing organization (SG)	3.43	0.77	cd
I am member of the organization, to associate/be with others				
	Organization	mean	SE	Group
	Soellerod nature conservation- & grazing organization (SOR)	0.52	0.67	a
	Saerlose grassland forest boar and grazing organization (SG)	4.87	0.79	c
	Gender	mean	SE	Group
	Female	1.91	0.45	a
	Male	2.37	0.45	b
Personal benefit				
I can share and pass on my knowledge and opinions about nature and animals				
	Membership status	mean	SE	Group
	Member	1.17	0.22	a
	Chairman	2.59	0.52	b
I find that, in the organization, we contribute to the local community				
	Transportation	mean	SE	Group
	31 minutes -1 hour	0.3	0.3	a
	More than 1 hour	0.94	0.85	abc
	16-30 minutes	1.32	0.23	b
	5-15 minutes	1.83	0.18	bc
	Less than 5 minutes	2.23	0.27	c
Through the organization, I have been able to make a difference				
	Education	mean	SE	Group
	Short higher education	0.81	0.45	a
	Skilled	2.33	0.36	b
Nature Value				
I feel it is important to take care of / protect / improve nature				
	Gender	mean	SE	Group
	Male	2.18	0.27	a
	Female	2.69	0.3	b
	Education	mean	SE	Group
	Short higher education	1.52	0.41	a
	Skilled	2.32	0.33	ab
	Long higher education	2.59	0.26	ab

Unskilled	2.72	0.72	ab
Intermediate higher education	3.03	0.29	b
I feel we today do enough to protect nature			
Gender	mean	SE	Group
Female	-0.86	0.38	a
Male	-0.41	0.37	b
Upbringing	mean	SE	Group
In the city	-0.78	0.36	a
In the countryside	-0.01	0.37	b
Identification			
My experiences with the organization are personally enriching			
Organization	mean	SE	Group
Soellerod grazing organization (SOR)	-0.01	0.58	a
Hjortespring nature conservation association (HS)	2.4	0.46	b
Soroe grazing organization (SR)	2.7	0.54	b
People in close to me support my decision to be a member of a grazing organization			
Gender	mean	SE	Group
Male	1.23	0.24	a
Female	1.75	0.27	b
Membership status	mean	SE	Group
Support member	0.19	0.43	a
Chairman	1	0.43	ab
Member	1.28	0.14	ab
Cashier	2.27	0.6	b
Vice chairman	2.71	0.68	B
Instrumental			
I am member of the organization primarily for the meat and /or wool of the animals			
Age	mean	SE	Group
Older than 81	-0.96	0.98	ab
16-20	-0.72	1.3	ab
71-80	-0.23	0.38	a
61-70	0.84	0.34	b
51-60	0.89	0.34	b
41-50	1.02	0.36	b
21-30	1.08	0.61	ab
31-40	1.55	0.41	b
Membership status	mean	SE	Group
Support member	-1.11	0.50	a
Vice chairman	0.28	0.74	ab
Chairman	0.29	0.49	ab
Cashier	1.26	0.59	b
Member	1.44	0.26	b
Education	mean	SE	Group
Long higher education	-0.57	0.34	a
Short higher education	0.95	0.49	b

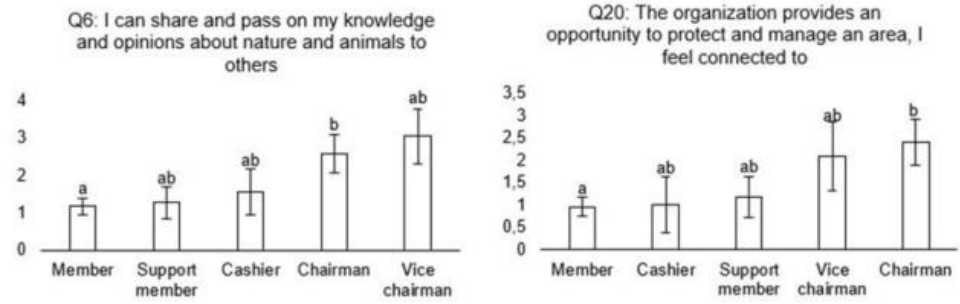


Figure S1. The likelihood of agreement with the motivation statements between members with different membership status.

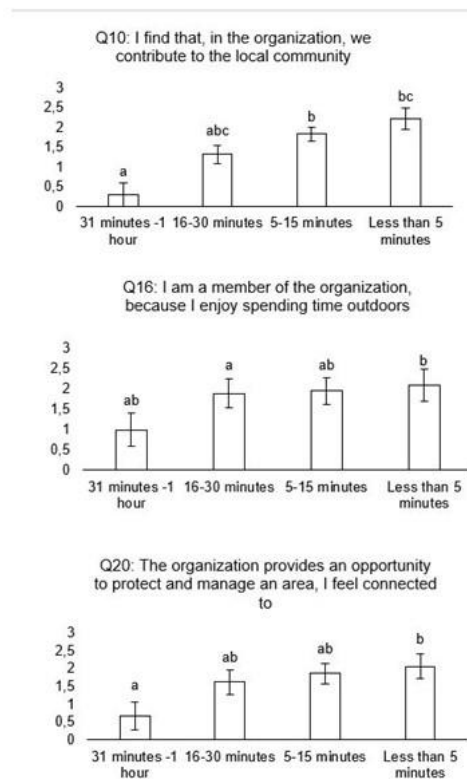


Figure S2. The likelihood of agreement with motivations statements between members with different transportation time.