Appendix I - Survey (translated from Swedish)

*Mandatory questions are marked with *. Total no of respondents completing the survey = 2358.*

Svenska jägareförbundet/Jägareförbundet = the Swedish Association for Hunting and Wildlife Management

Jaktvårdskonsulent = regional hunting consultant employed by Svenska Jägareförbundet

Percentages refer to proportion of responses

Page 1 Questions about yourself and your hunting team

1. How old are you? (*n=2350*)
    a. 18-35 (6%)
    b. 36-50 (24%)
    c. 51-65 (38%)
    d. 65+ (32%)
2. For how long have you been hunting? (*n=2254)*
    a. Less than one year (0%)
    b. 1-5 years (2%)
    c. 5-10 years (4%)
    d. 10-20 years (11%)
    e. More than 20 years (82%)
3. Are you a member of any hunters' organisation? You may choose more than one option. (*n=2335)*
    a. Yes, of Svenska jägareförbundet (82%)
    b. Yes, of Jägarnas Riksförbund[1] (16%)
    c. Yes, of another hunter's organisation (3%)
    d. I wish not to answer the question (1%)
    e. No (0%)
4. In which region is your hunting team mainly hunting? *(n=2305)*
    a. Southern Sweden (44%)
    b. Central Sweden (36%)
    c. Northern Sweden (19%)
5. How many members are there in your hunting team? *(n=2257)*
    a. 1-5 members (22%)
    b. 6-10 members (32%)
    c. 11-20 members (32%)
    d. 20-50 members (12%)
    e. More than 50 members (2%)
6. For how long have you been responsible for reporting within your hunting team? *(n=2265)*
    a. Less than one year (5%)
    b. 1-3 years (15%)
    c. More than 3 years (80%)

[1] The second largest hunters' association in Sweden

7. Is there more than one person responsible for reporting within your hunting team? *(n=2267)*
    a. Yes (19%)
    b. No (81%)
    c. Don't know (1%)
8. Does your hunting team report moose harvest in viltdata.se? *(n=2285)*
    a. Yes (79%)
    b. No, we report moose harvest in another way (15%)
    c. My hunting team does not hunt moose (5%)
9. Which species, aside from moose, does you hunting team (mainly) hunt? You may choose more than one option. *(n=2302)*
    a. Red deer (29%)
    b. Fallow deer (27%)
    c. Roe deer (79%)
    d. Wild boar (65%)
    e. Birds (37%)
    f. Other small game, such as hare, fox, badger (73%)
    g. No other species (8%)
10. Have you, as responsible for reporting within your hunting team, gotten any training about *wildlife monitoring in Sweden?* You may choose more than one option. *(n=2282)*
    a. Yes, I have taken a course specifically about wildlife monitoring (3%)
    b. Yes, I have taken a course that, amongst other things, included wildlife monitoring (3%)
    c. Yes, through a handover from the one who was previously responsible for reporting within the hunting team (3%)
    d. Yes, through personal contact with Jägareförbundet's staff, for example jaktvårdskonsulent (10%)
    e. No (84%)
11. Have you, as responsible for reporting within your hunting team, gotten any training about *how to report harvest data in viltdata.se?* You may choose more than one option. *(n=2268)*
    a. Yes, I have taken a course specifically about reporting (7%)
    b. Yes, I have taken a course that, amongst other things, included reporting (4%)
    c. Yes, through a handover from the one who was previously responsible for reporting within the hunting team (6%)
    d. Yes, through personal contact with Jägareförbundet's staff, for example jaktvårdskonsulent (14%)
    e. No (71%)
12. How often are you in contact with the following people *during the hunting season*? Choose the option that is most appropriate.

	Never	About once a year	Several times per year	About once a month	Several times per month	Every week or more often
Other members of your hunting team *(n=2203)*	(1%)	(4%)	(14%)	(12%)	(34%)	(34%)
Jaktvårdskonsulenten in your county *(n=2216)*	(61%)	(27%)	(7%)	(3%)	(1%)	(1%)

Other jaktvårdskonsulent *(n=2201)*	(84%)	(12%)	(2%)	(0%)	(1%)	(0%)
Other staff at Svenska jägareförbundet *(n=2209)*	(61%)	(29%)	(6%)	(1%)	(2%)	(1%)

13. How often are you in contact with the following people *outside of the hunting season*? Choose the option that is most appropriate.

	Never	About once a year	Several times per year	About once a month	Several times per month	Every week or more often
Other members of your hunting team *(n=2221)*	(2%)	(9%)	(21%)	(23%)	(26%)	(18%)
Jaktvårdskonsulenten in your county *(n=2162)*	(69%)	(24%)	(4%)	(2%)	(1%)	(0%)
Other jaktvårdskonsulent *(n=2157)*	(86%)	(12%)	(1%)	(1%)	(0%)	(0%)
Other staff at Svenska jägareförbundet *(n=2154)*	(66%)	(25%)	(5%)	(2%)	(1%)	(1%)

14. Does your hunting team report harvest of fallow deer, roe deer, wild boar, and small game to Svenska jägareförbundet?* *(n=2358)*
    a. Yes, all harvest of these species are reported (58%)
    b. Yes, most of the harvest of these species are reported (16%)
    c. Yes, a small part of the harvest of these species is reported (6%)
    d. No (20%)
15. Do you, or anyone else in your hunting team, use camera traps on your hunting grounds?* *(n=2358)*
    a. Yes, me and others within the hunting team (46%)
    b. Yes, only me (11%)
    c. Yes, only others within the hunting team (23%)
    d. No (17%)
    e. Don't know (3%)

Page 2 – Questions about reporting

16. Which tools and methods do you and your hunting team use to gather information in preparation for reporting of harvest of fallow deer, roe deer, wild boar, and small game? You may choose more than one option. *(n=1834)*[2]
    a. The app Viltdata (43%)

[2] This question was only available for those who had responded with any of the three "yes"-options for Question 14: "Does your hunting team report harvest of fallow deer, roe deer, wild boar, and small game to Svenska jägareförbundet?"

b. The app Wehunt (14%)
c. Other hunter's app (4%)
d. Paper form (13%)
e. E-mail or text (28%)
f. Orally (43%)
g. My hunting team does not report harvest of fallow deer, roe deer, wild boar, and small game (0%)
h. Other, please specify *(free response option)* (9%)

17. How do you *most often* report harvest of fallow deer, roe deer, wild boar, and small game to Jägareförbundet? *(n=1416)*[3]
    a. I register the information digitally in viltdata.se myself (93%)
    b. E-mail to jaktvårdskonsulent (1%)
    c. Phone call to jaktvårdskonsulent (0%)
    d. Paper form sent to Jägareförbundet (3%)
    e. My hunting team does not report harvest of fallow deer, roe deer, wild boar, and small game (1%)
    f. Other, please specify *(free response option)* (2%)
18. How often do you report harvest and moose observation in viltdata.se?

	Never, this is not reported	Never, I report this in another way	Once a year	2-3 times per year	More than three times a year
Harvest of moose and/or red deer *(n=1853)*	(8%)	(8%)	(22%)	(22%)	(40%)
Harvest of fallow deer, roe deer, wild boar, and small game *(n=1808)*	(17%)	(4%)	(45%)	(13%)	(21%)
Moose observations *(n=1796)*	(12%)	(9%)	(29%)	(16%)	(33%)

Information: Those who are responsible for reporting within the hunting team may have different reasons for reporting harvest of fallow deer, roe deer, wild boar, and small game, and feel different levels of engagement in the task. Please indicate how well you agree with the following statements?

[3] This question was only available for those who had responded with any of the three "yes"-options for Question 14: "Does your hunting team report harvest of fallow deer, roe deer, wild boar, and small game to Svenska jägareförbundet?"

19. I choose to report harvest of fallow deer, roe deer, wild boar, and small game because…[4]

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
It feels fun (*n=1335)*	(7%)	(12%)	(30%)	(39%)	(13%)
It feels valuable (*n=1335)*	(1%)	(2%)	(14%)	(50%)	(33%)
It is an important task for me to report harvest of fallow deer, roe deer, wild boar, and small game (*n=1332)*	(1%)	(3%)	(19%)	(48%)	(29%)
It is routine for us in the hunting team (*n=1328)*	(5%)	(7%)	(21%)	(45%)	(21%)
It is my habit to report harvest of fallow deer, roe deer, wild boar, and small game when I report species that are mandatory to report such as moose and red deer (*n=1332)*	(15%)	(18%)	(23%)	(32%)	(13%)
It is in line with my values as responsible for reporting in my hunting team (*n=1327)*	(2%)	(2%)	(15%)	(52%)	(29%)
I see it as part of being responsible for reporting in my hunting team (*n=1334)*	(1%)	(2%)	(12%)	(55%)	(30%)
I want to avoid feelings of guilt (*n=1326)*	(31%)	(27%)	(18%)	(19%)	(5%)
I want to avoid negative consequences (*n=1328)*	(26%)	(24%)	(18%)	(23%)	(9%)
I would be criticized if I did not do it (*n=1325)*	(33%)	(31%)	(17%)	(15%)	(5%)
Others in the hunting team expect me to do it (*n=1330)*	(15%)	(13%)	(22%)	(35%)	(15%)
I feel pressure from the jaktvårdskonsulent or equivalent (*n=1334)*	(40%)	(24%)	(23%)	(11%)	(3%)
I don't know, it actually feels like a waste of time (*n=1326)*	(57%)	(33%)	(7%)	(2%)	(1%)
I don't know, it feels pointless (*n=1328)*	(64%)	(27%)	(7%)	(2%)	(0%)
It is satisfying (*n=1329)*	(3%)	(5%)	(22%)	(49%)	(21%)
I want to be a good reporter for my hunting team (*n=1329)*	(2%)	(3%)	(16%)	(54%)	(24%)
I would feel like a bad reporter for my hunting team if I did not do it (*n=1330)*	(10%)	(11%)	(21%)	(40%)	(19%)
I don't know, actually I do not see the purpose of it (*n=1331)*	(58%)	(30%)	(8%)	(2%)	(1%)

[4] This question was only available for those who had responded with any of the three "yes"-options for Question 14: "Does your hunting team report harvest of fallow deer, roe deer, wild boar, and small game to Svenska jägareförbundet?"

20. I choose not to report harvest of fallow deer, roe deer, wild boar, and small game because…[5]

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I did not know that it was possible (*n=437)*	(53%)	(22%)	(15%)	(7%)	(4%)
My hunting team does not hunt these species (*n=436)*	(44%)	(19%)	(14%)	(12%)	(10%)
I forget (*n=433)*	(55%)	(22%)	(16%)	(6%)	(1%)
I cannot get the information I need from the others in the hunting team (*n=435)*	(43%)	(17%)	(17%)	(16%)	(7%)
It is cumbersome (*n=431)*	(45%)	(21%)	(18%)	(11%)	(5%)
It is too time consuming (*n=431)*	(47%)	(26%)	(15%)	(9%)	(3%)
I want to avoid negative consequences (*n=428)*	(65%)	(26%)	(6%)	(3%)	(1%)
I want to avoid criticism (*n=432)*	(68%)	(25%)	(3%)	(2%)	(1%)
I don't see any purpose in doing it (*n=431)*	(44%)	(25%)	(20%)	(8%)	(2%)
It feels like a waste of time (*n=433)*	(50%)	(25%)	(15%)	(8%)	(2%)
It feels completely pointless (*n=434)*	(46%)	(29%)	(15%)	(7%)	(3%)

21. I believe it is important to monitor…

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Fallow deer (*n=1801)*	(8%)	(6%)	(21%)	(46%)	(19%)
Roe deer (*n= 1783)*	(3%)	(6%)	(22%)	(50%)	(19%)
Wild boar (*n=1776)*	(6%)	(3%)	(13%)	(50%)	(27%)
Birds (*n=1768)*	(8%)	(12%)	(33%)	(35%)	(12%)
Other small game (*n=1765)*	(5%)	(9%)	(30%)	(42%)	(14%)

22. I find harvest statistics for the following species useful:

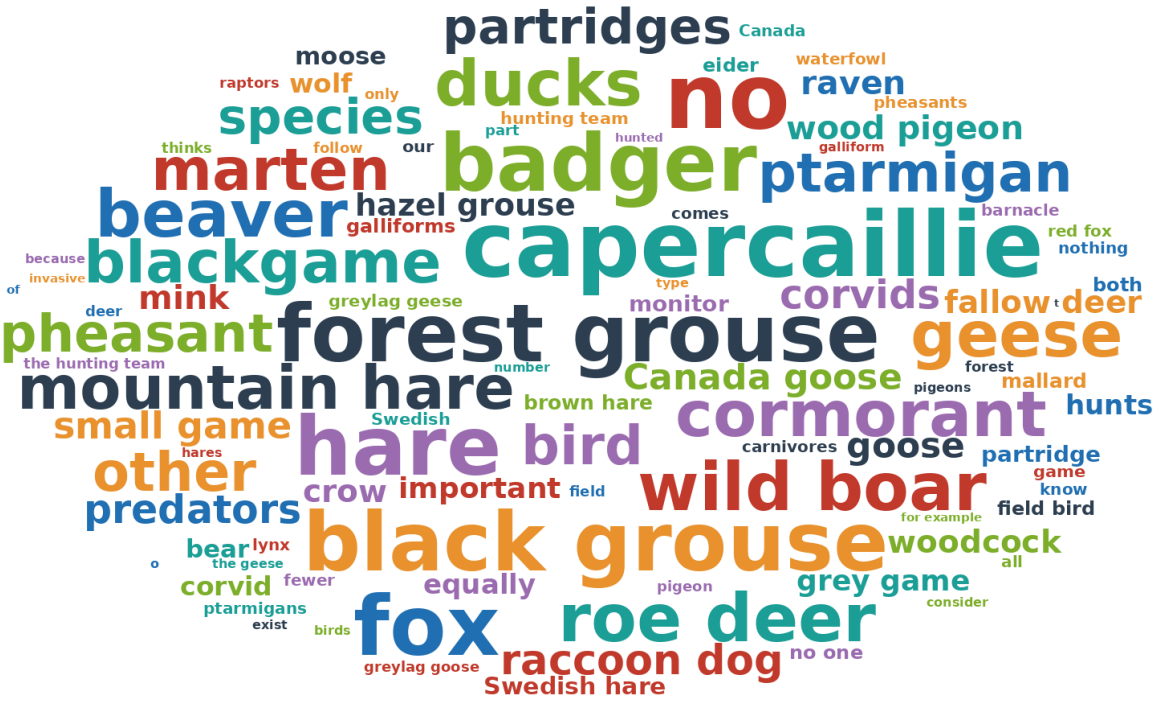
	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Fallow deer (*n=1796)*	(29%)	(20%)	(20%)	(23%)	(9%)
Roe deer (*n=1770)*	(10%)	(11%)	(25%)	(40%)	(14%)
Wild boar (*n=1768)*	(17%)	(10%)	(20%)	(36%)	(17%)
Birds (*n=1765)*	(17%)	(19%)	(30%)	(26%)	(8%)
Other small game (*n=1770)*	(13%)	(15%)	(28%)	(34%)	(10%)

[5] This question was only available for those who had responded "no" for Question 14: "Does your hunting team report harvest of fallow deer, roe deer, wild boar, and small game to Svenska jägareförbundet?"

23. The categories “Birds” and “Other small game” in the questions above include many species. Are there any of these species within these two categories which you believe is especially important to monitor? *Free response question- (n=797)*



English version of word cloud:



24. What level of trust do you have towards Svenska jägareförbundet's way of managing reported harvest data?

	Not at all	No	Neutral	Yes to some extent	Yes absolutely
I feel that Jägareförbundet has completely different values than I regarding how harvest data should be managed *(n=1732)*	(25%)	(25%)	(33%)	(8%)	(9%)
I feel support from Jägareförbundet for my opinion on how harvest data should be managed *(n=1715)*	(1%)	(4%)	(41%)	(20%)	(33%)
I feel that Jägareförbundet thinks differently than I do about how harvest data should be managed *(n=1702)*	(23%)	(29%)	(38%)	(8%)	(3%)
I trust that Jägareförbundet interpret harvest data with respect to hunters who report data *(n=1702)*	(2%)	(3%)	(34%)	(22%)	(39%)
I trust Jägareförbundet's way of managing harvest data *(n=1694)*	(2%)	(3%)	(28%)	(23%)	(44%)
I trust Jägareförbundet's competence in managing harvest data *(n=1691)*	(1%)	(3%)	(26%)	(22%)	(47%)

25. What level of trust do you have towards state authorities'/agencies' (that make decisions about hunting and wildlife management) way of managing reported harvest data?

	Not at all	No	Neutral	Yes to some extent	Yes absolutely
I feel that the authorities have completely different values than I regarding how harvest data should be managed *(n=1745)*	(7%)	(13%)	(34%)	(32%)	(14%)
I feel support from authorities for my opinion on how harvest data should be managed *(n=1720)*	(8%)	(18%)	(48%)	(17%)	(8%)
I feel that authorities thinks differently than I do about how harvest data should be managed *(n=1712)*	(6%)	(10%)	(43%)	(29%)	(12%)
I trust that authorities interpret harvest data with respect to hunters who report data *(n=1709)*	(8%)	(16%)	(48%)	(18%)	(10%)
I trust authorities' way of managing harvest data *(n=1708)*	(9%)	(16%)	(44%)	(20%)	(11%)
I trust authorities' competence in managing harvest data *(n=1704)*	(10%)	(18%)	(42%)	(18%)	(12%)

26. What level of trust do you have towards the members of your hunting team's way of managing reported harvest data?

	Not at all	No	Neutral	Yes to some extent	Yes absolutely
I trust the team members' way of managing harvest data *(n=1737)*	(1%)	(4%)	(17%)	(24%)	(55%)
I feel that the team members have completely different values than I regarding how harvest data should be managed *(n=1717)*	(38%)	(28%)	(19%)	(13%)	(2%)
I feel support from the team members for my opinion on how harvest data should be managed *(n=1714)*	(0%)	(2%)	(19%)	(25%)	(54%)
I feel that the team members thinks differently than I do about how harvest data should be managed *(n=1711)*	(38%)	(26%)	(21%)	(13%)	(2%)

27. How would you prefer to get feedback from Svenska Jägareförbundet on reported data? You can choose *up to* three options. *(n=1737)*
    a. Yearly report in a digital format sent to me via e-mail (63%)
    b. Possibility to download specific statistics for my hunting area from viltdata.se (77%)

c. Feedback in the form of presentations during meetings and get-togethers with Svenska jägareförbundet (24%)
d. I do not wish to get any feedback in the form of statistics, but I would like to get some sort of thank you/confirmation that my data has been received (6%)
e. I do not wish to get any feedback (4%)
f. Other, please specify (*free response option*) (2%)

Page 3 – Questions about technical tools for reporting

Question 28-36 was not used as data in the study presented in this paper but was gathered for another purpose. Question 37-38 was used for the qualitative analysis presented in the paper.

28. How familiar are you with the following tools for reporting harvest data?

	Do not know of it	Know of, but do not use it	Know of, and have used it
The function of reporting harvest data on viltdata.se			
The cellphone app Viltdata			
The transfer of data from the app Viltdata to viltdata.se			
The Help-button on viltdata.se			
Instruction videos on viltdata.se			
Written manuals on viltdata.se			
The possibility of retrieving harvest statistics on viltdata.se			
The possibility of retrieving hunting team specific reports on viltdata.se			
The possibility to administer quota-based hunting on viltdata.se			
Possibility to report conditional hunting on viltdata.se			

29. How *useful* do you find the following tools for reporting harvest data?

	Not useful at all	Not particularly useful	Neutral	Useful	Very useful	Never used
The function of reporting harvest data on viltdata.se						
The cellphone app Viltdata						
The transfer of data from the app Viltdata to viltdata.se						
The Help-button on viltdata.se						
Instruction videos on viltdata.se						
Written manuals on viltdata.se						
The possibility of retrieving harvest statistics on viltdata.se						

The possibility of retrieving hunting team specific reports on viltdata.se						
The possibility to administer quota-based hunting on viltdata.se						
Possibility to report conditional hunting on viltdata.se						

30. How *easy or difficult to use* do you find the following tools for reporting harvest data?

	Very difficult	Difficult	Neutral	Easy	Very easy	Never used
The function of reporting harvest data on viltdata.se						
The cellphone app Viltdata						
The transfer of data from the app Viltdata to viltdata.se						
The Help-button on viltdata.se						
Instruction videos on viltdata.se						
Written manuals on viltdata.se						
The possibility of retrieving harvest statistics on viltdata.se						
The possibility of retrieving hunting team specific reports on viltdata.se						
The possibility to administer quota-based hunting on viltdata.se						
Possibility to report conditional hunting on viltdata.se						

31. What kind of support would you like when you need help with reporting in viltdata.se? You can choose up to 3 options.
    a. Help-button on viltdata.se
    b. Instruction videos on viltdata.se
    c. Manuals on viltdata.se
    d. Personal contact with for example jaktvårdskonsulent
    e. Help from someone you know who have experience of reporting
    f. I do not need any support, I usually figure it out on my own "trial and error"
    g. Other (please specify) *free response option*

Information: Wildlife monitoring will develop more ways of monitoring the wildlife populations in the future, for example by hunters' camera traps. A new project called Viltbild has been launched where Svenska jägareförbundet in collaboration with the Swedish university of agricultural sciences will create a platform for collecting images. Below you will find a number of questions about camera traps. Your answers contribute to making the platform Viltbild as functional as possible for you as a hunter.

32. How many camera traps have you or someone else in your hunting team put up *during the past 12 months?*
    a. None
    b. 1-2
    c. 3-4
    d. 5-6
    e. More than 6
    f. Do not know

33. Under which conditions are you willing to share material from your camera traps with Svenska jägareförbundet?[6]

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
The images are anonymous and cannot be traced to a particular place					
It is technically simple to share the images					
I can access the results					
I can see other hunters' images					
It is clear to me how the images are used in wildlife monitoring					
I do not want to share images from my camera traps					

34. Are there other conditions that are important for you to be willing to share material from your camera traps? *Free response question*[8]

35. For the monitoring results from camera trap images to be as good as possible, it may be required that the cameras are installed in a certain way in accordance with manuals. Would you be willing to change the following aspects of how you use your camera traps?[8]

	Yes	No	Maybe
Location of camera trap			
Height of camera trap			
The use of bait			
Time of year when the camera trap is running			

[6] This question was only available for those who had responded with "Yes, me and others within the hunting team" or "Yes, only me" for Question 15: "Do you, or anyone else in your hunting team, use camera traps on your hunting grounds?"

36. How much extra work and time would you be willing to put on a project with camera traps for an improved Swedish wildlife monitoring?[8]
    a. None
    b. About 0,5 hours/month
    c. About 1 hour/month
    d. About 2 hours/month
    e. About 3 hours/month
    f. About 4 hours/month
    g. More than 4 hours/month

Page 4 – Other comments

37. If you are allowed to speculate freely, what do you think can contribute to increasing or decreasing reporting of harvest of fallow deer, roe deer, wild boar, and small game? *Free response question (n=998)*

38. Is there something you would like to add regarding reporting harvest data, that you think we have not asked about in the report? *Free response question (n=567)*