

Appendix 1. Questions included in the survey, showing how they were combined for the calculation of all traditional ecological knowledge (TEK) and Use indexes (Cronbach's alphas for all the indexes are shown at the end of the table).

Questions included in the survey and their combination for the calculation of TEK indexes							
	TEK general	TEK past	TEK transhumance	TEK environment	TEK indicators	TEK sanitary	Use
1. In a herd of sheep, is it important to have goats? Why/What for?	X						
2. In a herd of sheep, what is the ideal number of males (in order to maximize productivity)?	X						
3. Which is the maximum size of a herd of sheep so that it can be driven, during transhumance on foot, by two shepherds with dogs but without horses (plus a person in charge of logistics, driving the car)?	X		X				
4. When there used to be just one birth a year per sheep in which time of the year were rams mixed with sheep (females)? Why?	X	X	X				
5. How many kg of wool does a <i>merino</i> sheep produce a year, on average? [<i>merino</i> is the local breed]	X						
6. Do you know any tricks for making a mother adopt a lamb from another sheep when her lamb has died?	X						X
7. How do you name sheep out of their teeth?	X						
8. Could you recognize, in this picture, four types of brands in the ears of the sheep? [a panel with 6 drawings was shown]	X						
9. In the past, animals used to be branded with pitch ¿do you know what materials were used to produce pitch? [If yes] ¿How was it made?	X	X		X			
10. Apart from the ear and the pitch brand ¿in which other way were sheep branded in order to avoid thefts?	X	X					X
11. Could you name five types of bells and order them from the biggest to the smallest?	X						
12. Nowadays, a bad year with none or little pasture, one can feed the animals but what did people use to do in the past? [more than 50 years ago]	X		X				
13. Could you mention two plants from the summering area and two from the wintering area that are good pastures?	X		X	X			
14. In the wintering area, when is the <i>saeta</i> good and when is it bad?	X		X	X			X
15. What does the practice of <i>redileo</i> consist in? What is it good for? [if he/she knows] Why is the pasture better where this practice is done?	X	X	X	X			
16. In the past, when the herds needed to be pen, what material was used to make the fold out of? How have this material been changing? [if he/she knows] Why?	X	X					

Questions included in the survey and their combination for the calculation of TEK indexes

	TEK general	TEK past	TEK transhumance	TEK environment	TEK indicators	TEK sanitary	Use
17. How should a mastiff behave during daylight? And in the night? And how should it react if there is a wolf attack to the herd?	X	X					
18. What do sheep suspect when they eat a lot and look nervous and restless?	X				X		
19. When big toads are seen around, what do they indicate? Could you name (and explain) any other animal behavior that indicates environmental changes?	X			X	X		
20. Could you complete the proverb: "Rain in January..."	X		X				
21. Could you describe, season by season, a good meteorological year, for pasturelands and livestock, for transhumants?	X		X	X	X		
22. What causes <i>basquilla</i> among sheep? Do you know any natural remedy or practice to treat it or prevent from it? [<i>basquilla</i> is a disease caused by an enterotoxin produced by <i>Clostridium perfringens</i>]	X	X		X		X	X
23. Do you know any natural remedy or practice to treat mange?	X	X		X		X	
24. Do you know any natural remedy or practice to treat livestock from the deposit of fly larvae eggs into wounded tissue?	X	X				X	X
25. Do you know any natural remedy or practice to treat the <i>clouds in the eyes</i> ? [<i>clouds in the eyes</i> is the common name for keratoconjunctivitis]	X	X				X	X
26. When did the trip take longer, before the trains came or now? [if he/she knows] why has this changed?	X	X	X				
27. Could you mention at least five municipalities/towns of La-Mancha region that are crossed by the CDR?	X		X				
28. If you did transhumance on foot next year, what croplands would you need to prevent sheep from feeding on?	X		X	X			
29. If you did transhumance on foot next year, what problems might you face during the trip?	X		X	X			
30. In which municipalities/towns of La-Mancha region are there more problems with water availability?	X		X				
31. Which is the traditional date for cutting the tail of the sheep? Why? [Has it changed?]	X	X					
32. What was used to be done by Saint Michael, on September 29th? Why in that date?	X	X	X				

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	TEK general	TEK past	TEK transhumance	TEK environment	TEK indicators	TEK sanitary	Use
33. What was the <i>zagón</i> and what was it used to be it made out of? And the <i>zaque</i> ? [both were recipients made out of sheep and cow leather respectively]	X	X					
34. Do you know what the <i>somarro</i> is? [is he/she knows] How is it prepared? [<i>somarro</i> a way of preserving sheep meet by drying it]	X						X
35. Could you complete the proverb: "The shady size is good..."? What does the above mentioned proverb mean?	X				X		
36. Do you know the five shepherds' commandments?	X						
CRONBACHS' ALPHA	0.87	0.74	0.75	0.72	0.41	0.41	0.59