

Interview guide for community members on fire uses and risk perception of wildfires

Informed consent:

Good morning. My name is Rossi Taboada, I am an anthropologist from the Universidad Nacional Mayor de San Marcos and I am doing a research on the uses of fire. I would like to ask you some questions about your farming and grazing practices and, if possible, accompany you when you do them.

If you agree to participate in this study, I will ask you some questions. In order to better record them, I ask your permission to record the interview; if you do not agree, I can take notes in my notebook.

All information will be used only for this study, where I will not reveal personal data. Also, it is part of my commitment to return to present the results.

Thank you very much for your participation.

A. Characterization data

1. Could you tell me a little bit about yourself? How old are you, what do you mainly do? Have you always lived here?
2. How many members are in your family? Do they all live here?
3. How important is agriculture and livestock farming to you and your family?
4. Do you own or possess any plots of land or grazing land? What is the area of this land? Do you use it all?

B. Economic activities

5. Could you tell me what you grow and in which seasons? [Inquire about the crop cycle]
6. With whom do you carry out your agricultural activities?
7. If you have livestock, could you tell me what kind of livestock you have? How many heads do you have? Did you have more or less before?
8. Where do you get feed for your livestock? Do you get enough feed?
9. In which areas do you graze your livestock? [Inquire about grazing land management practices]

C. Uses of fire

10. In the community, is fire used for agricultural or livestock activities? Why?
11. Could you explain to me how you carry out burning in agriculture or livestock farming? For example, when you do it, at what time of day, if you use any burning technique, how many people participate, if you notify your neighbours or the community.
12. And how do they keep the fire from escaping?
13. What other things is fire used for?
14. Do you think there have been changes in the use of fire? What is different now? Why do you think it has changed?
15. Do you think burning is beneficial? Why?
16. Do you know if there are other alternatives to achieve these benefits? What are they? Would you apply them? Why?

D. Fire risk perception

D.1 Hazard

17. Do you remember any fires in the community? Could you tell me about those fires? How did they happen, when, who or what did they affect?
18. In general, why do you think fires occur?
19. Do you think there have been changes in the fires? If so, what do you think has changed? What were the fires like before?

D.2 Vulnerability

20. Do you think a fire could occur? How bad would it be (very strong or mild)?
21. Where do fires mostly occur in the community?

22. Who would you turn to if a fire occurs? Why?

D.3 Exposure

- 23. How could a fire affect you?
- 24. What do you value most that could be affected by a fire?
- 25. Do you think you could get help in the event of a fire? From whom?

D.4 Response

- 26. If you have witnessed or been affected by a fire, could you tell me how you acted? How did you organize? Who was involved? What did they do? Were they able to solve the problem?
- 27. When fires have occurred, have sanctions been applied? By whom? Do you think those sanctions have served any purpose?
- 28. Do you think it is possible to prevent a fire? How?
- 29. Have you ever talked about the danger of fires? With whom? For what purpose? What did you achieve?

Finally, do you have any comments on the uses of fire and arson? Is there anything I haven't asked that you want to talk about?

Fire uses and Wildfire risk perception Questionnaire - CUFPER

1. Names

2. Surnames

3. Age

4. Sex

☐ Female

☐ Male

5. Community

6. Sector/Neighborhood

7. In addition to your home in the community, do you have another home?

☐ Yes

☐ No (Go to question 9)

8. Where is your other home located?

9. What is your family's main source of income?

Mark only one option.

☐ Agriculture

☐ Cattle raising

☐ Trade

☐ Salary

☐ Other: _____

10. In addition to your home, do you have a plot of land for farming or ranching?

☐ Yes

☐ No

11. What is the main destination of your agricultural or livestock production?*Mark only one option.*

- ☐ Sale
- ☐ Self-consumption
- ☐ Barter
- ☐ Other: _____
- ☐ None (does not farm or have livestock)

12. Does your land have an irrigation system or canals?

- ☐ Yes
- ☐ No

13. Do you own any kind of livestock?

- ☐ Yes
- ☐ No

14. What type of grasses do you have? (read options)*Mark only one option.*

- ☐ Natural
- ☐ Cultivated
- ☐ Natural and cultivated
- ☐ Does not have

15. For cooking, you mainly use*Mark only one option.*

- ☐ Gas
- ☐ Kerosene
- ☐ Dun
- ☐ Firewood
- ☐ Other: _____

16. Have you ever used or do you use fire in your agricultural activities?

- ☐ Yes
- ☐ No

17. In what month or months of the year do you carry out burning in agriculture or livestock?*You can check more than one option*

- ☐ January
- ☐ February
- ☐ March
- ☐ April
- ☐ May
- ☐ June
- ☐ July
- ☐ August
- ☐ September
- ☐ October
- ☐ November
- ☐ December

18. At what time of day do you or others do them?*Mark only one option.*

- ☐ Dawn
- ☐ Morning
- ☐ Afternoon
- ☐ Evening

19. When you or a neighbor do a burn, how many people participate apart from you?*Mark only one option.*

- ☐ 0
- ☐ 1
- ☐ 2-4
- ☐ 5-7
- ☐ 8-10
- ☐ +10

20. In your community, what activity is most closely related to burns?*Mark only one option.*

- ☐ Agriculture
- ☐ Cattle raising
- ☐ Domestic (waste and kitchen)
- ☐ Other: _____

21. Do you think that burning, in general, is beneficial?*Mark only one option.*

- ☐ Yes, they are beneficial
- ☐ No, they are not beneficial
- ☐ They neither harm nor benefit

22. Is a wildfire likely to occur in your community?

- ☐ Yes
- ☐ No

23. If a wildfire occurred in the community, do you think that fire would be severe (large, dangerous)?

- ☐ Yes
- ☐ No

24. If a wildfire occurs, your HOME*Read the options and mark only one*

- ☐ Unlikely to be damaged (would not be damaged)
- ☐ It is likely to be damaged (maybe it would be damaged)
- ☐ It is very likely to be damaged (yes it would be damaged)

25. If a wildfire occurs, your CROPS*Read the options and mark only one*

- ☐ Unlikely to be damaged (would not be damaged)
- ☐ It is likely to be damaged (maybe it would be damaged)
- ☐ It is very likely to be damaged (yes it would be damaged)
- ☐ I do not have crops

26. If a wildfire occurs, your LIVESTOCK*Read the options and mark only one*

- ☐ Unlikely to be damaged (would not be damaged)
- ☐ It is likely to be damaged (maybe it would be damaged)
- ☐ It is very likely to be damaged (yes it would be damaged)
- ☐ I have no cattle

27. If a wildfire occurs, the ECOSYSTEM*Read the options and mark only one*

- ☐ Unlikely to be damaged (would not be damaged)
- ☐ It is likely to be damaged (maybe it would be damaged)
- ☐ It is very likely to be damaged (yes it would be damaged)

28. In the event of a wildfire, who do you turn to first?*Mark only one option*

- ☐ Neighbors
- ☐ Communal authorities
- ☐ Rondas campesinas
- ☐ Firefighters
- ☐ Municipality
- ☐ Police
- ☐ Others: _____

29. Did you have support from those people or entities?

- ☐ Yes
- ☐ No

30. In the event of a wildfire, do you think your community would receive assistance?

- ☐ Yes
- ☐ No

31. To face a wildfire, do you think that the community is*Read the options and mark only one*

- ☐ Not at all prepared
- ☐ Prepared
- ☐ Very prepared

32. To face a wildfire, do you believe that other institutions (such as the municipality, firefighters, police) are*Read the options and mark only one*

- ☐ Not at all prepared
- ☐ Prepared
- ☐ Very prepared

33. If you or your family are affected by a wildfire (for example, your house, pastures, crops, animals), you would recover*Read the options and mark only one*

- ☐ Quickly
- ☐ Slowly
- ☐ I wouldn't recover

34. Remember the last wildfire in your community, what was your first feeling?

Do NOT read the options. Mark or write the first answer.

- ☐ Fear
- ☐ Curiosity
- ☐ Indifference
- ☐ Worry
- ☐ Other: _____

35. When a wildfire occurs in your community, are sanctions applied to those responsible?

Read the options and mark only one.

- ☐ Always
- ☐ Sometimes
- ☐ Never

36. Have you ever received a talk, training or information about burns or wildfires?

- ☐ Yes
- ☐ No