

# A methodological proposal for the sociocultural valuation of ecosystem services

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Citation: González-Yebra Ó., Aznar-Sánchez J.A., Velasco-Muñoz J.F., López-Felices B. (2023): A methodological proposal for the sociocultural valuation of ecosystem services. Agric. Econ. – Czech., 69: 68–77.

The authors are fully responsible for both the content and the formal aspects of the electronic supplementary material. No editorial adjustments were made.

## Electronic supplementary material

Content of the questionnaire

## Content of the questionnaire

**BLOCK 1. Sociodemographic Characterisation**

1. Age:
2. Gender (mark with an X): ☐ Male ☐ Female ☐ Non-binary
3. Education: ☐ Basic ☐ Middle ☐ Higher
4. Are you involved in an environmental organisation? ☐ No ☐ Yes, which one? \_\_\_\_\_
5. Location of residence: \_\_\_\_\_ Country: \_\_\_\_\_
6. Please indicate if you are visiting the Park for leisure/tourism: ☐ No ☐ Yes
7. If you marked No in the previous question, please indicate below which group you identify with (only one option can be marked):
- |   |  |
|---|--|
| <input type="checkbox"/> Public administration  | <input type="checkbox"/> Organic almond tree farmer                                |
| <input type="checkbox"/> Professional in the tourism sector<br>(catering, accommodation...) | <input type="checkbox"/> Socio-educational community<br>(schools, associations...) |
| <input type="checkbox"/> Hunter   | <input type="checkbox"/> Other activities, which? _____                            |
8. What do you understand by Ecosystem Services (only one option can be marked)?
- ☐ Services necessary for the biophysical development of the land.
- ☐ Services that the ecosystem (natural park) provides for the well-being of people.
- ☐ Environmental services to promote recycling.
- ☐ Companies that offer improvements to ecosystems (marine, forestry).

**BLOCK 2a. Ecosystem Services Assessment**

## Provisioning services

1a	If the almond (organic) crop is preserved and improved in the Park, how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it
1b	If the (organic) almond crop is NOT conserved and improved, how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it
2a	If a line of action to favour beekeeping and collection of aromatic plants is included in the next Park Sustainable Development Plan (SDP), how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it
2b	If a line of action to favour beekeeping and collection of aromatic plants is NOT included, how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it
3a	If prioritising the fauna for the proper development of the Park's hunting reserves was considered, how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it
3b	If efforts to protect the fauna of the Park are NOT prioritised, how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it
4a	If the conservation of livestock pasture is prioritised as the objective of the next Sustainable Development Plan of the Park, how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it
4b	If the conservation of pasture for livestock is NOT prioritised, how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it
5a	If, within the lines of work of the Park, it is included to promote the provision of firewood (tree clearing) and esparto, how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it
5b	If the provision of firewood (tree clearing) and esparto is NOT promoted, how would you feel?	I like it I expect it I'm neutral I can tolerate it I dislike it

<https://doi.org/10.17221/298/2022-AGRICECON>

## Regulating services

6a	If the Park is protected to maintain the purity of the air (as well as favour the elimination of CO <sub>2</sub> ) as a key objective, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
6b	If air purity is NOT maintained in the Park, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
7a	If measures are implemented in the Park to favour the recharge of aquifers, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
7b	If aquifer recharge is NOT favoured, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
8a	If the objective of the next Sustainable Development Plan of the Park is to favour the natural regulation of the climate (e.g. avoid increasing temperatures), how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
8b	If natural climate regulation is NOT favoured, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
9a	If maintaining the soil quality (e.g. improving fertility and avoiding desertification) is considered a priority within the next Sustainable Development Plan of the Park, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
9b	If maintaining the soil quality of the Park is NOT raised as a priority, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
10a	If, within the lines of action of the Park, it is included to improve the natural habitat of native animals and plants (to protect them from environmental disasters), how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
10b	If the natural habitat of the Park is NOT improved, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it

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## Sociocultural services

11a	If sustainable tourism is promoted in the Park (agrotourism, wine tourism, ecotourism...) as a dynamic element of the region of Los Vélez, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
11b	If sustainable tourism is NOT promoted in the region, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
12a	If, in the next Sustainable Development Plan of the Park, the aesthetic values of the environment are protected (e.g., looking at the landscape and enjoying the natural space...), how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
12b	If the aesthetic values of the environment are NOT protected, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
13a	If one of the lines of action of the Park is to promote recreational activities (e.g., bird watching, hiking, camping...), how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
13b	If the recreational activities of the Park are NOT promoted, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
14a	If the conservation of the essence of the Park as a hallmark of the Los Vélez region is established as a priority, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
14b	If the essence of the Park is NOT preserved, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
15a	If, within the objectives of the Park, preserving and enhancing the natural and cultural heritage of the environment (caves and shelters) is focused on, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
15b	If the natural and cultural heritage of the Park is NOT conserved or valued, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it

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## Sociocultural services – to be continued

16a	If the next Sustainable Development Plan of the Park includes measures for promoting education and environmental awareness, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it
16b	If education and environmental awareness are NOT promoted in the Park, how would you feel?	I like it
		I expect it
		I'm neutral
		I can tolerate it
		I dislike it

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**BLOCK 2b. Degree of Importance of Services**

Level of importance you give to the following Ecosystem Services of the Sierra María-Los Vélez Park:

Provisioning services 

1	2	3	4	5
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1	Almond crop (organic)					
2	Beekeeping and collection of aromatic plants (e.g. lavender, thyme, rosemary...)					
3	Fauna in the context of hunting grounds (e.g., wild boars, hares, partridges...)					
4	Grass for cattle (sheep and goats)					
5	Esparto, firewood and similar resources					

Regulating services 

1	2	3	4	5
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6	Air purification (CO <sub>2</sub> capture)					
7	Conservation of aquifers					
8	Climate regulation (e.g. avoiding rising temperatures)					
9	Soil quality (e.g. promoting fertility and avoiding desertification)					
10	Natural habitat (protection against environmental disasters)					

Sociocultural services 

1	2	3	4	5
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11	Sustainable tourism (agrotourism, wine tourism, ecotourism...)					
12	Aesthetic values of the environment (e.g. contemplation of the landscape, enjoyment of the natural space...)					
13	Recreational activities (e.g. bird watching, hiking, camping...)					
14	The essence of the Park as a hallmark feature (identification with feelings of well-being and rural tradition).					
15	Natural and cultural heritage (caves and shelters)					
16	Environmental education and awareness (training activities on sustainability)					

1 (not important at all) – 5 (very important)

**BLOCK 3. Final questions**

1. Do you think there is a missing service that does not appear in this Questionnaire:

☐ No ☐ Yes

\*If you have marked Yes in the previous question, indicate the service or services below:

2. Indicate below any negative aspects you think the Park has for residents:

3. In the following space, you can make any comment related to the benefits obtained from the Sierra María-Los Vélez Natural Park: