

Table S1. Questionnaire utilized in the interviews.

About the plant

1. On which tree / stone wall plants grow?
2. Which common name besides pitahaya has? Spanish / Maya?
3. How many pitahaya plants do you have in your garden?
4. For how long have you had the plants?
5. Who taught you about their care?
6. Where did the plant come from / grew up alone?
 - a. I buy it
 - b. Given as a gift/exchange
7. How was it given? In what way did he/she get it?
8. Apart from being edible, what other use do they give?

Characteristics of the plant

9. Do you know how many flowers are produced each year?
10. in what month?
11. In what months there are fruits?
 - a. How many times a year produces flowers/fruits?
12. Do you know how many fruits are produced each year?
13. How do you know fruit is ready to be harvested?
14. In your garden, there are different fruits in size, taste or color?
15. Do you know if there are different fruits in size, taste or color in other parts?
16. Where?
17. Are there pitahayas in the forest that grow alone?
18. Are they very abundant/ regular/scarce?
19. Who cultivates the pitahayas? women / men / children / all
20. How many fruits or kg do you get per harvest?
21. What is the care of the plant? Pruning / irrigation / fertilizer / weeding / other
22. Have you noticed any pitahaya disease?
23. Which ones?

Sale

24. Is the fruit sold/used for family consumption / given/exchanged?
 - a. How much does the kg/ fruit cost?
25. To whom do you sell it? Merchant / neighbors / others
26. If you sell, where do you sell them?
27. How much do you sell?
 - a. Do you exchange seeds or seedlings with friends or relatives?

Uses

28. Do you eat the pitahayas?
29. How do you consume them?
30. Who taught you how to prepare it? Father / mother / grandparents / other
31. Does the pitahaya have any special flavor? Can you describe it?
 - a. How could I describe the taste of pitahaya?

Processing

32. After harvesting the pitahaya, how do you keep them?

33. For how long? Days / months

34. Do you think that the form and quantity produced and consumed by pitahaya have varied over the years?

a. What is your opinion of the pitahayas? How do you think consumption or culture has changed over the years?

35. Observations

Table S2. Type of variable, levels for qualitative variables, central tendency (mode for binary and categorical variables, median for ordinal variables and mean for discrete, interval and continuous quantitative variables) and statistical dispersion (standard deviation only for quantitative variables) used to fit the generalized linear models (GLM).

Variable	Type	Levels ^a	central tendency	statistical dispersion ^b
Knowledge	discrete		23.31	6.10
location	quantitative categorical	Hunucma, Nenelá, Sachcaba, Tixcacaltuyub, Tixkokob, Tixpehual, Tzucacab, Ucú, Umán, Xuilub and Yokdzonot	Hunucma (11) and Tixcacaltuyub (11)	
latitude	continuous		20.79	0.26
age	quantitative ordinal	15-25, 25-35, 35-45, 45-55, 55-65 and >70	45-55 (24)	
sex	binary	male/female	Female (39)	
Maya speaker	ordinal	yes/no	Yes (33)	
use of traditional clothing	binary	yes/no	No (41)	
number of indigenous languages in the municipality	discrete quantitative		3.09	2.97
Number of Maya speakers in the municipality	discrete quantitative		6361	3957.72
school attendance rate	interval quantitative		59.70	2.15
distance to the nearest city	continuous quantitative		0.30	0.17

^aOnly for qualitative variables.

^bOnly for quantitative variables.