Human–wildlife conflicts in Patagonia: ranchers' perceptions of guanaco *Lama guanicoe* abundance

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SUPPLEMENTARY MATERIAL 1 Semi-structured interview content and schedule (translated from Spanish).

Personal information

1. Have you owned or worked on this ranch for a long time?
2. Do you live on this ranch?
3. What is the farm system? Cattle only, sheep only or mixed livestock?

Producer's perception on guanaco abundance

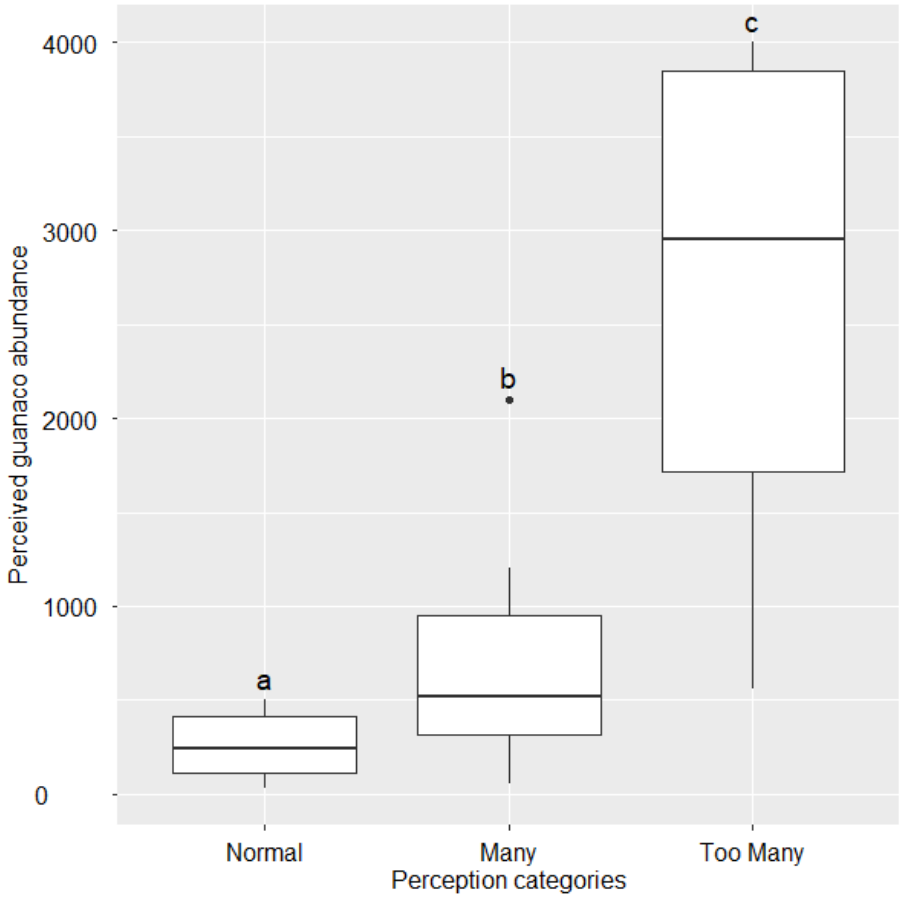
1. How many guanacos do you estimate that there are on the ranch?
2. Was there always the same number? If it changed, why do you think it did so?
3. To have a certain number of guanacos might mean different things to different people. Is this number of guanacos low, neutral, or high for you? Are you happy with this number? Would you like that there were more, less? Why?

Social-ecological context, including livestock production system and forage availability

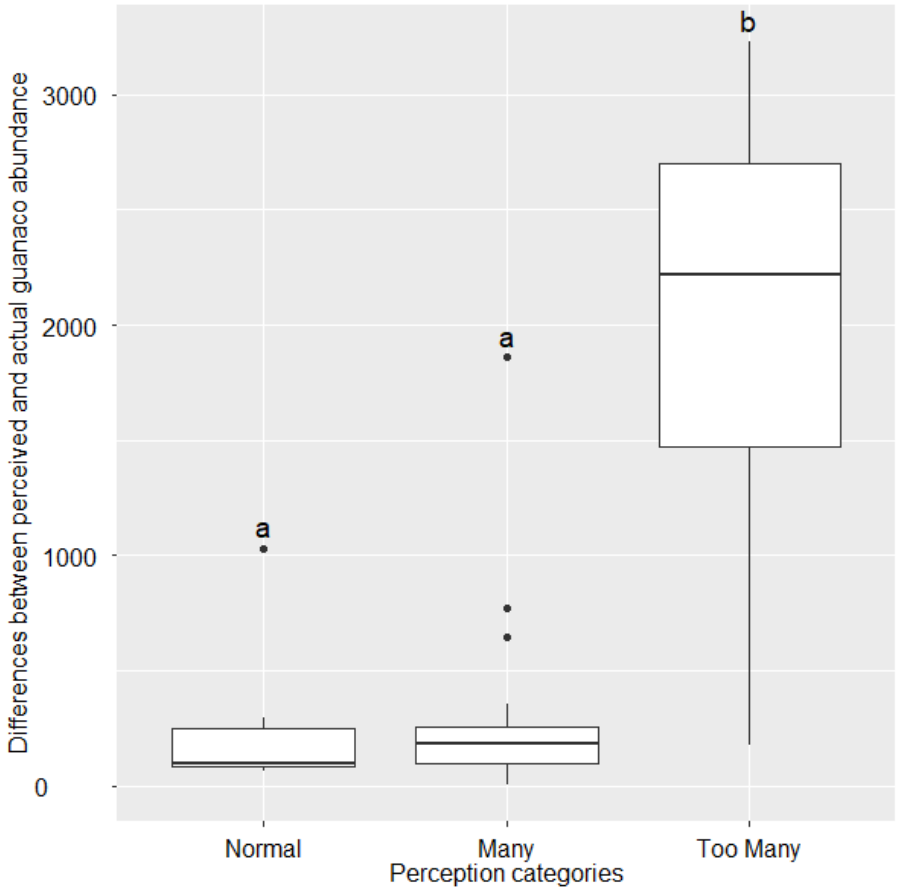
1. What livestock rotation system is applied throughout the year? What does it depend on?
2. For as long as you can remember, has the same livestock rotation system always been carried out? Why was it changed?
3. Have you observed any change in the productivity of the rangelands? (in case of affirmative reply) Why do you think it may be changing?
4. What is the number of livestock in this ranch?
5. Do pastures change by the presence of guanacos? How?
6. In what way do you think that the presence of guanacos might affect livestock?
7. To close the interview, would you share your opinion on what would be for you the main challenges facing livestock production in the Argentinian sector of the Isla Grande de Tierra del Fuego? Please rank them in order of priority, placing the most relevant in the first place.

SUPPLEMENTARY TABLE 1 Schedule of semi-structured interviews.

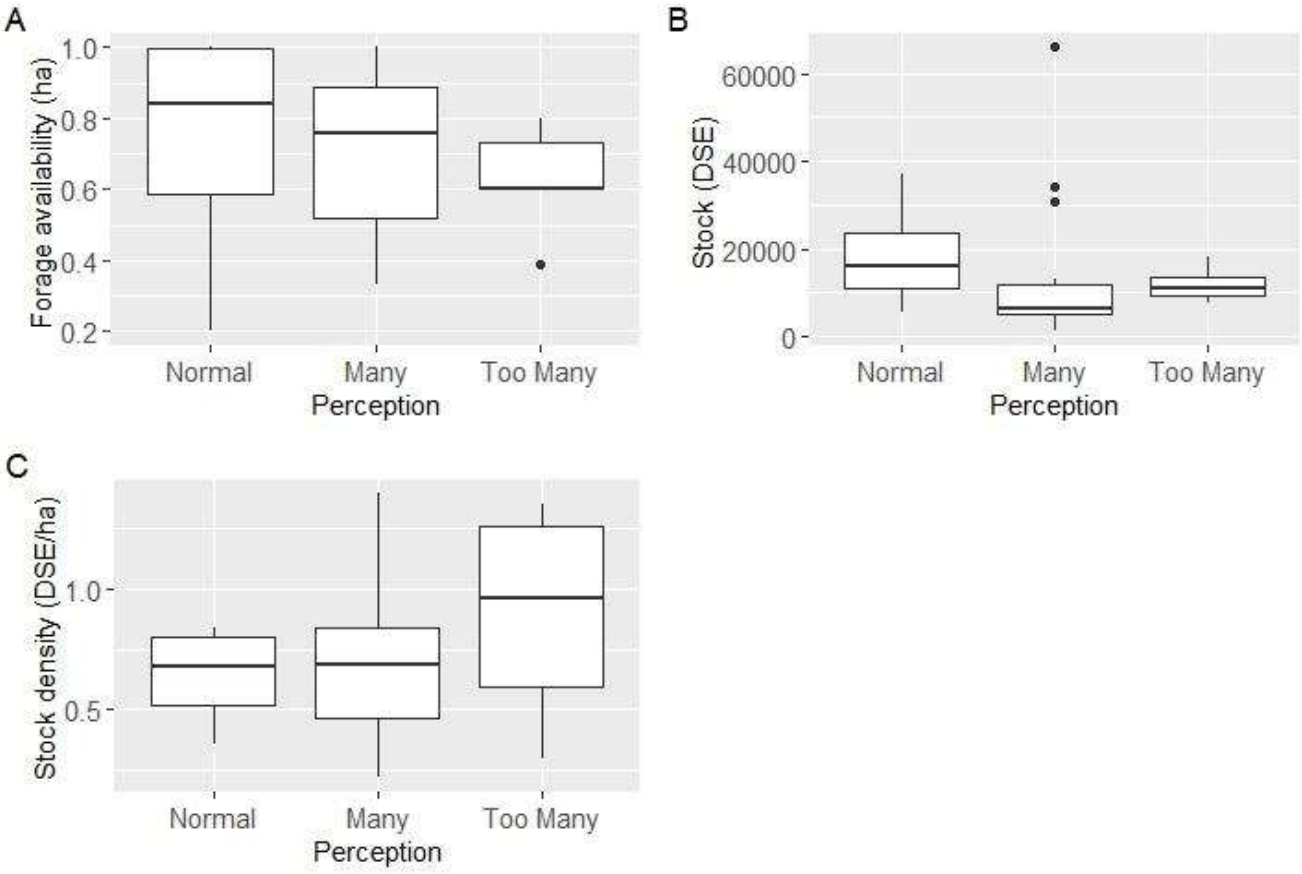
Year	Month	Day	Interviewed ranchers
2018	August	10	1
		21	3
		22	3
		23	1
		27	2
		28	2
		29	2
	September	3	2
	November	3	1
2019	January	24	1
		25	1
	February	6	1
		7	2
	March	6	2
		8	1
		15	1
		28	2
	April	8	1
	May	3	1
		4	1



SUPPLEMENTARY FIG. 1 Perceived guanaco abundance among perception categories: "too many" (mean = 2615), "many" (mean = 723) and "normal" (mean = 259). The significant differences among perception categories are shown with different letters over each boxplot. The guanaco abundance only considered the maximum of adult individuals.



SUPPLEMENTARY FIG. 2 Differences between perceived and actual guanaco abundance (absolute value) among perception categories: "too many" (mean = 1959), "many" (mean = 322) y "normal" (mean = 278). The significant differences among perception categories are shown with different letters over each boxplot. The guanaco abundance only considered the maximum of adult individuals.



SUPPLEMENTARY FIG. 3 Source of available forage and its use per perception category ("normal", "many" and "too many"). Forage availability as the rangeland surface ratio (rangeland surface on the ranch divided by its total surface; A), stock (DSE, dry sheep equivalent; B) and stock density (dry sheep equivalent divided by rangeland surface ratio; C).

SUPPLEMENTARY TABLE 2 Ranked list of issues for livestock production according to the ranchers' perception regarding their importance (salience index). The ranked lists are shown per perception category ("too many", "many" and "normal") and the components of salience indexes are detailed (frequency and mean position).

Perception groups	Issues	Frequency	Mean position	Salience index
Too many	Feral dogs	4	1	0.8
	Guanaco	4	3.75	0.21
	Commercialization channels	3	3	0.2
	Low profitability	2	2	0.2
	Livestock rustling	1	2	0.1
	Invasion by beaver (*Castor canadensis*)	1	2	0.1
	Infrastructure	2	4.5	0.09
	Absence of state in assistance to livestock production	1	3	0.07
	Invasion by *Hieracium pilosella*	1	3	0.07
	Lack of qualified laborers	1	4	0.05
	Winter severity	0	0	0
	Drought	0	0	0
Many	Feral dogs	10	1.4	0.48
	Winter severity	5	1.6	0.21
	Guanaco	7	2.86	0.16
	Infrastructure	5	2.8	0.12
	Absence of state in assistance to livestock production	5	3	0.11
	Lack of qualified laborers	6	3.67	0.11
	Low profitability	4	3	0.09
	Livestock rustling	3	2.33	0.09
	Drought	3	3	0.07
	Invasion by *Hieracium pilosella*	3	3.33	0.06
	Invasion by beaver (*Castor canadensis*)	3	4	0.05
	Commercialization channels	1	5	0.01
Normal	Feral dogs	4	2	0.33
	Livestock rustling	5	3.2	0.26
	Lack of qualified laborers	3	2	0.25
	Infrastructure	3	2.67	0.19
	Low profitability	1	1	0.17
	Invasion by *Hieracium pilosella*	1	1	0.17
	Absence of state in assistance to livestock production	2	2.5	0.13
	Guanaco	2	4	0.08
	Invasion by beaver (*Castor canadensis*)	1	2	0.08
	Commercialization channels	1	4	0.04
	Winter severity	0	0	0
	Drought	0	0	0

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