

Economic and ecological constraints on sheep management in the Algerian steppe

Supplementary data

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Predictions of lamb and adult class ages by GLM

- ✓ *: p< 5%, **: p< 1%; ***: p< 0.1%; MS: marginally significant (p< 7.5%); NS: not significant (p> 7.5%)
- ✓ n =refers to the population of the same year, and n-1 to the previous year.
- ✓ P : monthly rainfall, in mm.
- ✓ M : average of the maxima of the hottest month
- ✓ m: average of the minima of the coldest month

Table A1: Predictions of lamb age classes by GLM for Biskra

BISKRA	Lambs	ewes n-1	rams n-1	June	July	Sept	
P	Male	_***	+ **	+ ***	_***	+***	
	Female	_**	+*	+*	_**	+**	
m				Febr	March	May	June
	Male	_***	NS	+*	_**	NS	+***
	Female	_***	NS	+**	_*	_*	+*
M				June	July	Oct	
	Male	_***	NS	+***	_*	_*	
	Female	_***	NS	+**	-MS	_*	

Table A2: Predictions of adult age classes by GLM for Biskra

BISKRA	Adults	ewes n-1	rams n-1	maleyearl. n	May	July
P	Rams	NS	+ ***	NS	+ **	+*
	Ewes	+***	NS	NS	+*	+*
						Sept
m	Rams	NS	+**	+*	-.**	Nov
	Ewes	+**	NS	NS	-.**	NS
						June
M	Rams	NS	+***	NS	-.**	
	Ewes	+***	NS	NS	-.*	

Table A3: Predictions of lamb age classes by GLM for Msila

MSILA	Lambs	ewes n-1	Decem
P	Male	-.**	NS
	Female	-.*	-.**
			March
m	Male	-.**	+ *
	Female	?	?
			March
M	Male	-.*	+ *
	Female	?	?

Table A4: Predictions of adult age classes by GLM for Msila

MSILA	Adults	ewes n-1	ewes n	Rams n-1	Yearl n-1	July	Febru
P	Rams	NS	+ ***	+ ***	+ *	-.***	-.**
	Ewes	+*		NS	NS	NS	NS
m	Rams	NS					
	Ewes	NS					
			Ewes n	Rams n-1	Janu	March	Novem
M	Rams	NS	+ **	+ **	+*	NS	-.*
	Ewes	+*		NS	NS	-.*	N

Table A5: Predictions of lamb age classes by GLM for Djelfa

DJELFA	Lambs	ewes n-1	June				
P	Male	+**	NS				
	Female	+***	+*				
m			Janu	Febr	Decem		
	Male	+***	._**	._*	+***		
	Female	+***	._*	NS	+**		
M			March	April	June	Sept	Oct
	Male	+***	NS	._*	NS	._*	._*
	Female	+***	._*	NS	._*	NS	NS

Table A6: Predictions of adult age classes by GLM for Djelfa

DJELFA	Adults	ewes n-1	Febru	May	June	July
P	Rams	NS	+ *	NS	NS	._**
	Ewes	+**	+*	+**	+*	NS
m	Rams	NS				
	Ewes	+**				
M			July	Octob	Decem	
	Rams	NS	NS	NS	NS	
	Ewes	+**	._*	._*	._**	