



Axios River is directly associated with livestock husbandry, as the entire area close to the river is grazed by livestock for many decades.

The area is grazed mainly by cattle and few semi-wild horses – About 400 free-ranging cattle graze in the area $% \left({\frac{{{\left({{{\left({{{\left({{{\left({{{\left({{{\left({{{{}}}} \right)}}} \right.} \right.} \right.} \right.} \right)} \left({{\left({{{\left({{{\left({{{\left({{{}}} \right)}} \right.} \right)}} \right)} \right)} \right)} \left({{\left({{{\left({{{}} \right)} \right)} \right)} \left({{} \right)} \right)} \right)} } \right)} = 0$



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•The objective of the present study was to investigate the temporal movement of cattle in Axios Delta for two consecutive years (2016-2017).

 Five different suckling cows, young at age (4-6 yes) [5 cows x 3 seasons x 2 years = 30 cows]. 	ears old) were chosen each season and year
 Their grazing behaviour was investigated by mounting these cows with GPS collars (Lotek) around their necks, which in turn recorded their tracks per six minutes on a 24-hour basis during three seasons (spring, summer and autumn). Differences in animal movement among the three seasons per year were tested by one way ANOVA and the means by the LSD test (P 	

. ≤ 0,05).



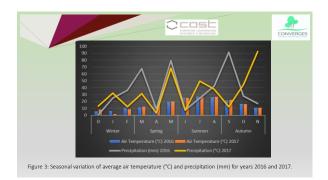




Years 2016 202

rears	2010			2017		
Seasons	Spring	Summer	Autumn	Spring	Summer	Autumn
Mean distance (Km)	8.2a ¹	7.4b	7.3c	5.6b	5.7a	4.7c

¹ Different letters in the same line between seasons in each year indicate significant differences (P<0.05)



- In general, shorter distances were observed in 2017 compared to 2016 (Table 1). These differences could be attributed to the fact that lactating cows were grazing mainly in riparian areas, where they preferred grasses, legumes and forbs in contrast to the rest of the delta, where they preferred only halophytes, due to the minimal rainfall that occurred in 2017 (Figure 3).
- It is pointed out that the daily diet of the cows was enriched with supplementary food in the shed in spring of 2017 because of the limited forage.
- In particular lactating cows have greater requirements for more nutritive forage and therefore they are more selective in their diet, not to mention their greater requirements for water due to their special status (lactation period).



