

Cross Comparison of Lamb Mortality in two Different Mediterranean Countries

J.M. Gautier, S. Ocak, S. Ogun, O. Yilmaz, E. Emsen, F. Corbière



Aims

- Compare in two mediterranean countries:
 - Mortality rate
 - Distribution of lamb mortality by age
 - Mortality causes
 - Risk factors

- Determine if there are common issues?



Method

- The data were collected separately from two different countries
 - 2012-2014 in France (54 farms)
 - 2013-2014 in Turkey (49 farms)
- The purpose of data collection was not for this study
- An opportunity!



Data Collection Area: Turkey



The data is collected in the mountainous part of the Mediterranean Region of Turkey and the Main temp in summer and winter is 35.5 and 6°C, respectively.

49 suckler ewe breeders :

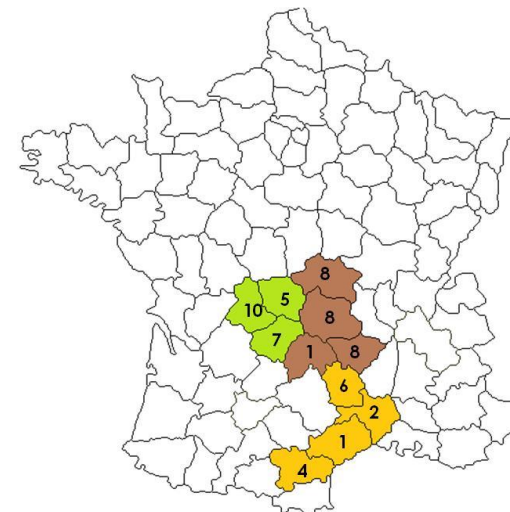
- 2 breeds (6 000 ewes – 8 000 lambs)
- 2 rearing systems :
 - Extensive
 - Semi-intensive



Data Collection Area: France

54 suckler ewe breeders :

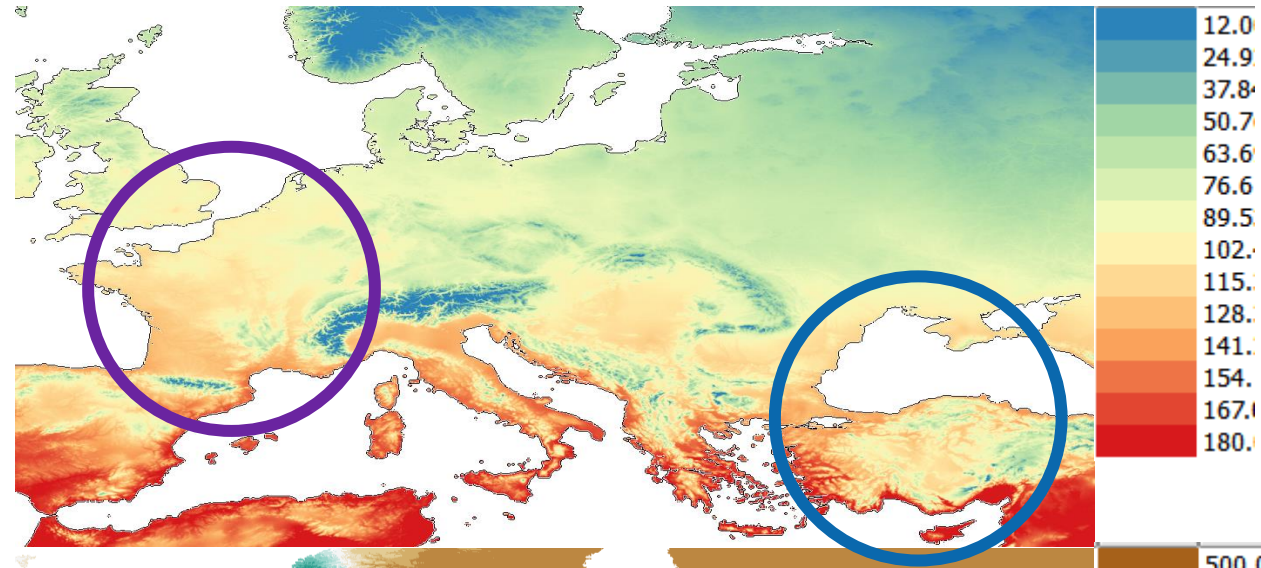
- 2 years
- Massif Central area (50 000 ewes ; 70 000 lambs)
- 3 rearing systems :
 - two lambing periods (spring, autumn)
 - system type 3 lambing in two years
 - pastoral system (February-April)



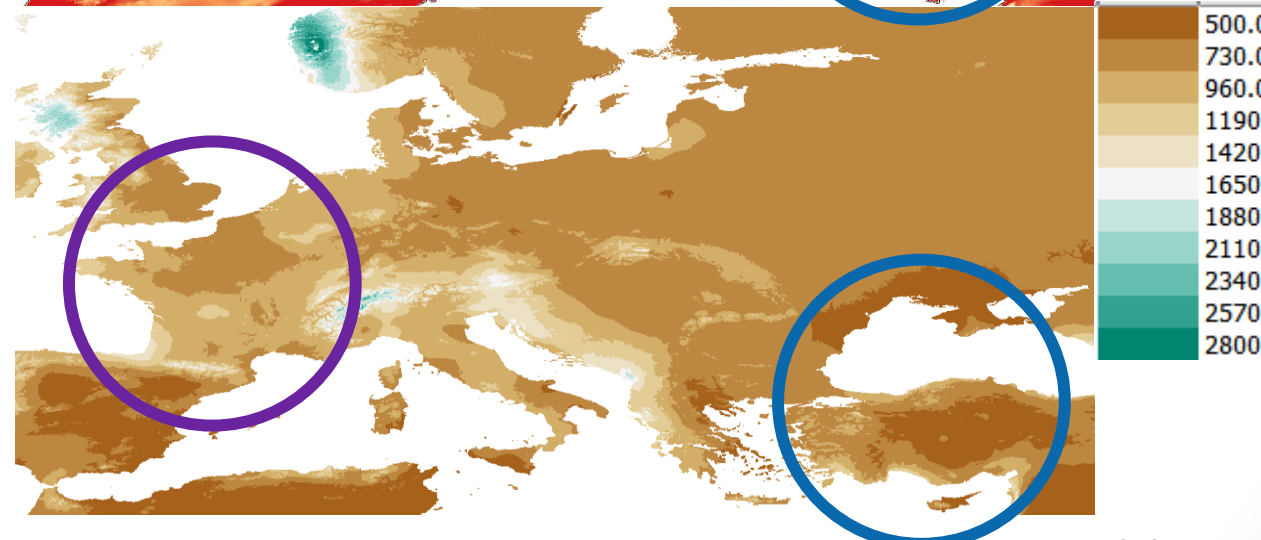
The 2 Mediterranean Countries

France
Turkey

Average annual
temperature



Accumulated
rainfall



Source: worldclim.org

Mortality rate (median)

Turkey

- semi-intensive: **12%**
- extensive system: **9%**

France

- system type 3 lambing in two years: **17,2%**
- pastoral system: **14,2%**
- two lambing periods: **12,4%**

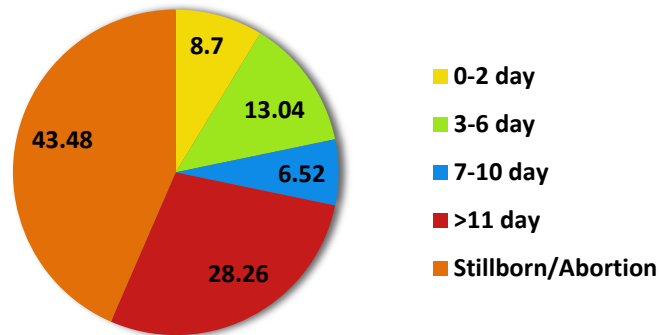
Wide variability between farm within each rearing system

TURKEY

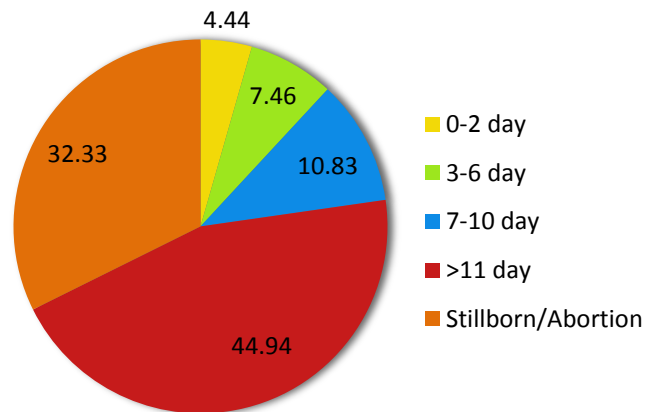
FRANCE

Age of death in different production systems

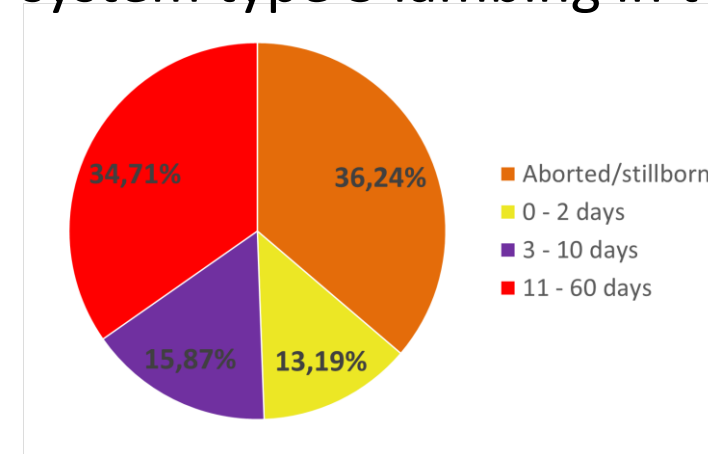
Semi-Intensive/3 lambing in 2 years



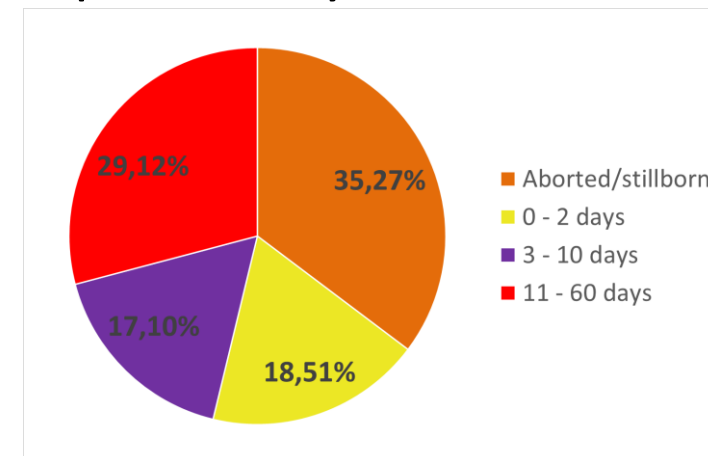
Extensive



system type 3 lambing in two years

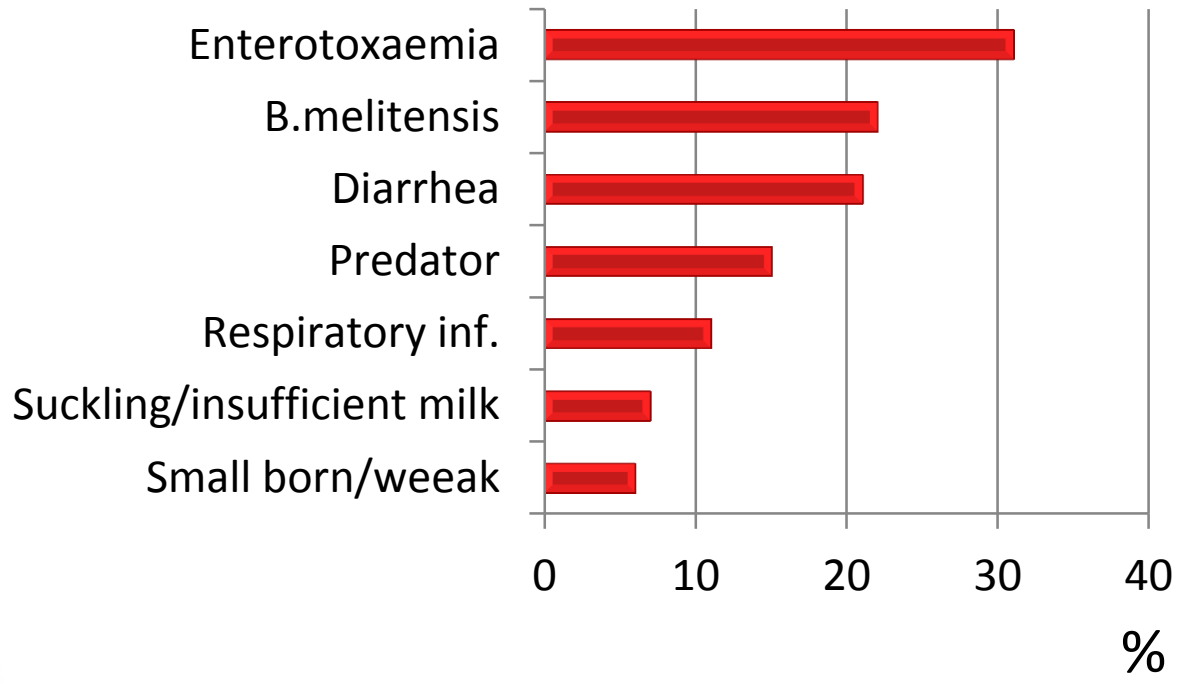


pastoral system

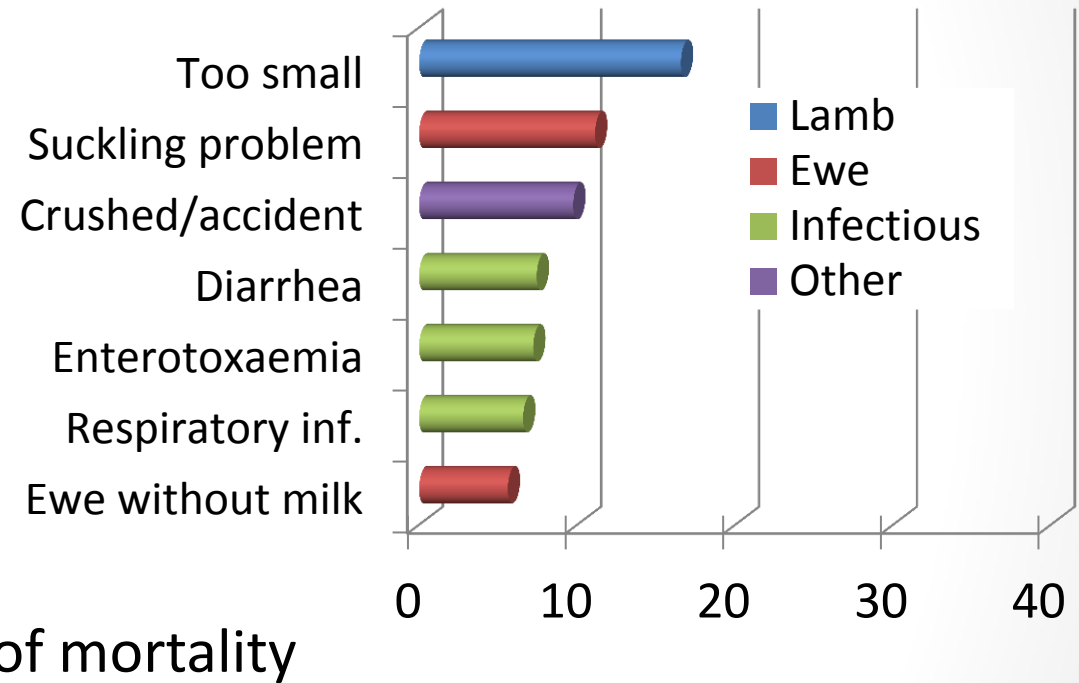


Main mortality causes

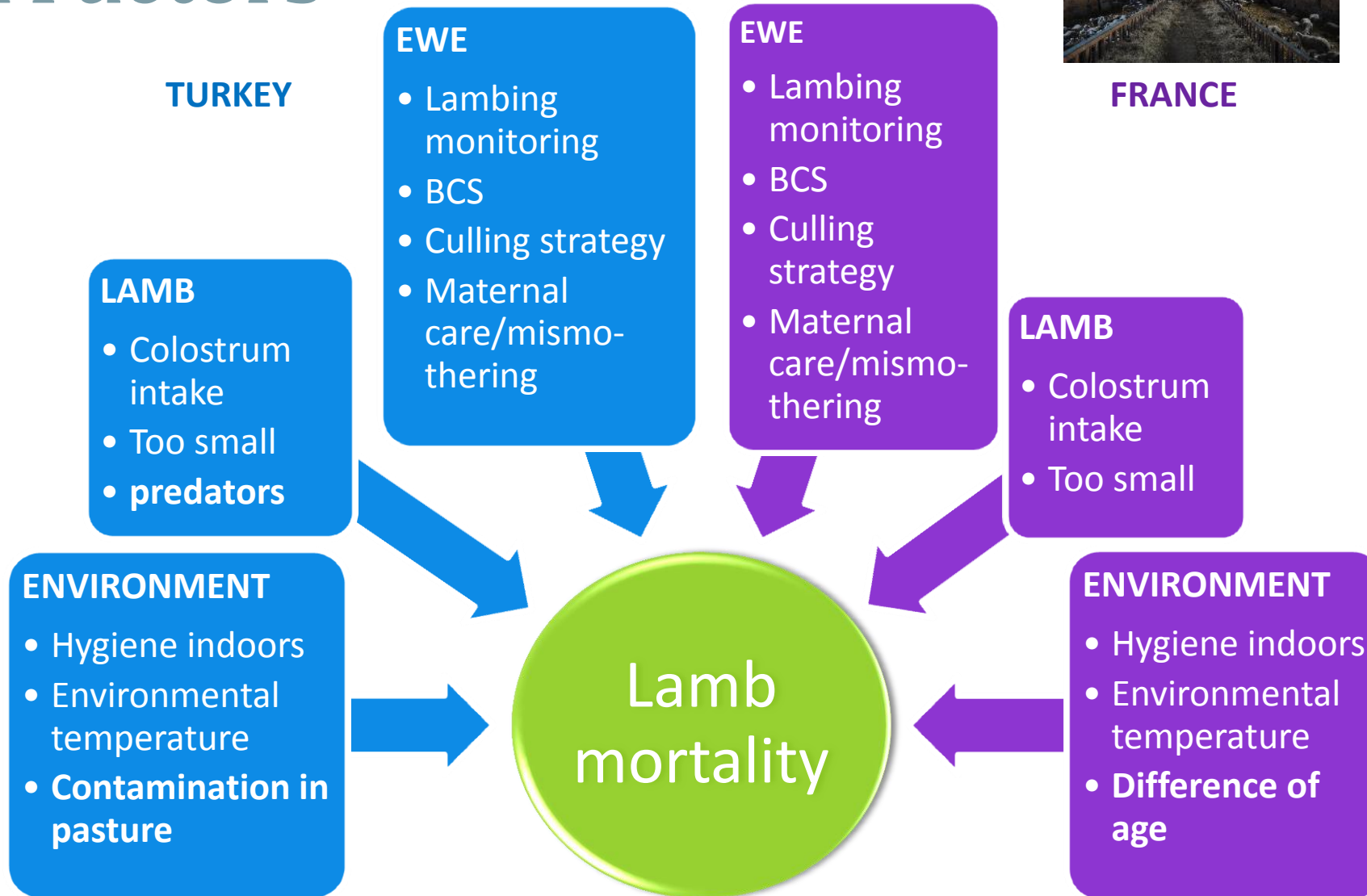
TURKEY



FRANCE



Risk Factors



Conclusion

- ✧ The production system had an effect on lamb mortality in 2 countries
- ✧ Mortality rate: lower in Turkey
- ✧ Similar age of death (< 10 days) – except Extensive system in Turkey
- ✧ Different between causes of death
- ✧ Similar risk factors... and some differences

A better understanding of resilience of lambs: questions regarding lamb robustness





Thank you!

Teşekkür ederim!

Merci!



Intensive vs.



Extensive Farming

