



Impact of first parity on longevity



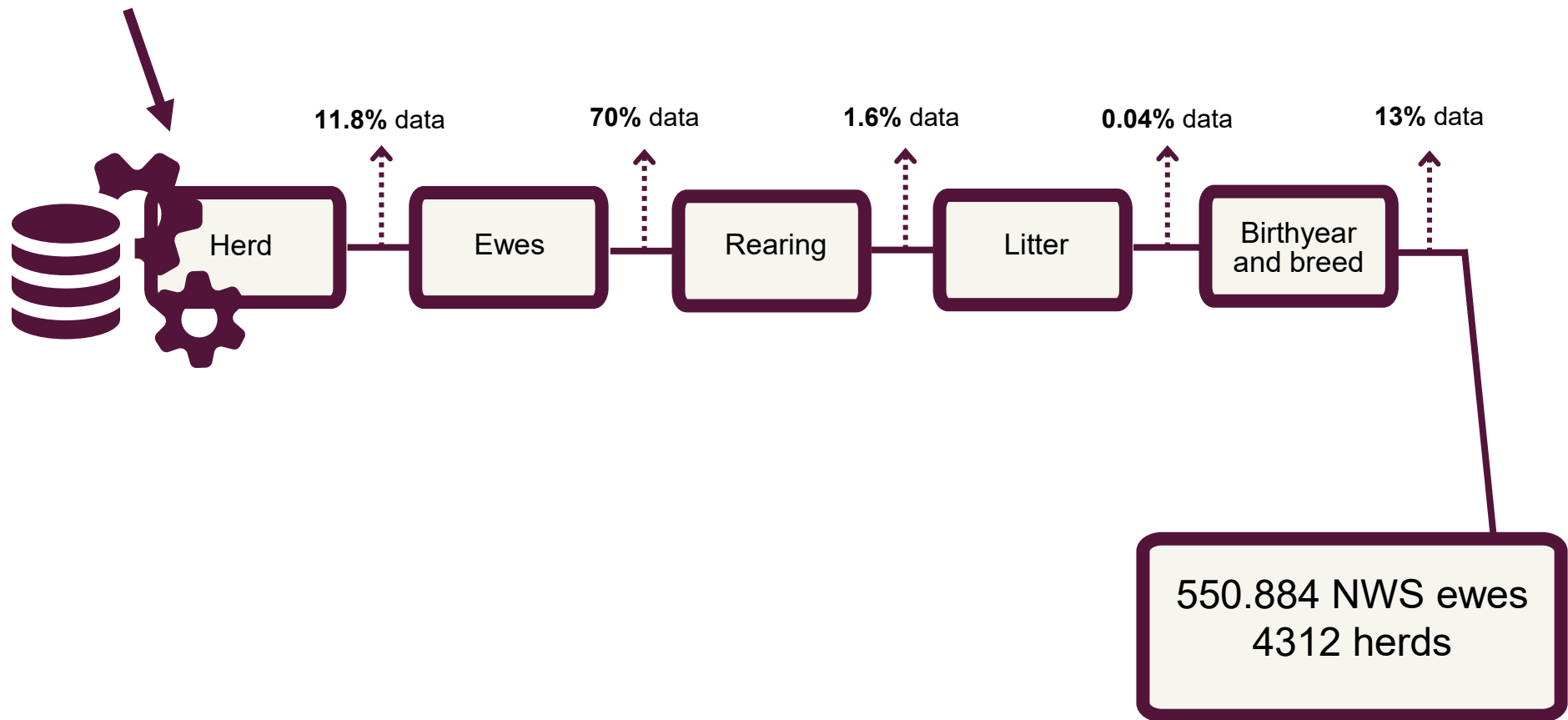
L. S. Kierkegaard, N. C. Friggens, G. Steinheim, Ø. Holand, G. Klemetsdal, L. Puillet, B. A. Åby



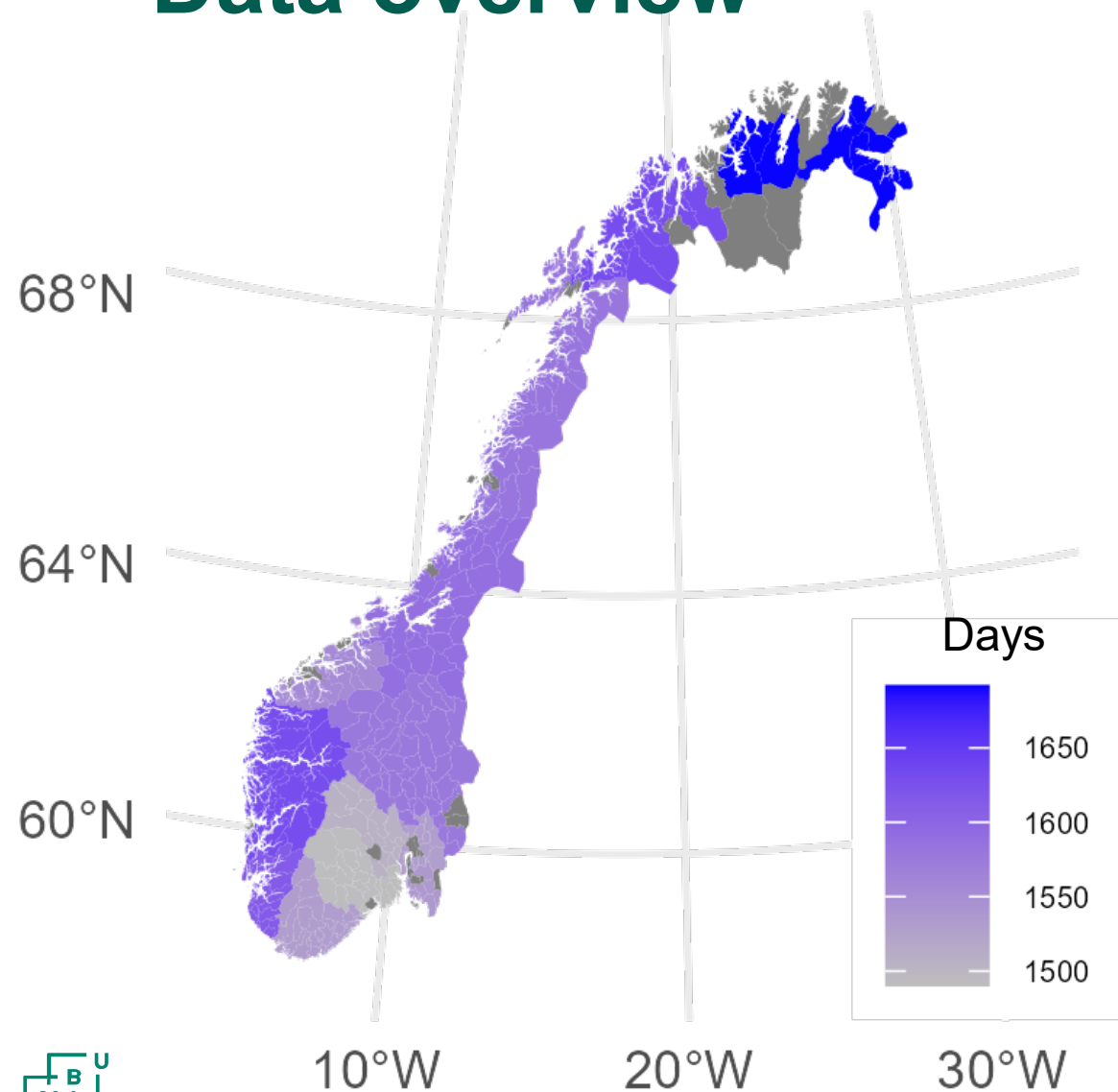
- Reproduction vs. longevity
- Environmental variation
- Recommendation from the 70's

Data cleaning and filtration

13.2 mill individuals
9911 herds



Data overview



Variable	Mean	SD
Lifespan, years	4.34	1.97
Ewe autumn weight, kg	39.41	6.32
Number litters	3.46	1.95
1. litter born, no.	1.65	0.69
1. Litter birthweight/lamb, kg	4.65	0.99
Litter size/litter, born	1.97	0.58

Lifespan

=

Age of ewe at first parity
+ Litter size
+ Reared code
+ Weaned code
+ Early Parturition
+ Late Parturition
+ County

+ Age of ewe at first parity * Weaned code
+ Age of ewe at first parity * Early Parturition
+ Age of ewe at first parity * County
+ Litter size * Late Parturition
+ Litter size * County
+ Litter size * Weaned code
+ Reared code * Weaned code
+ Weaned code * Early Parturition
+ Age of ewe at first parity * Litter size * Reared code

+ Herd Year

Lifespan

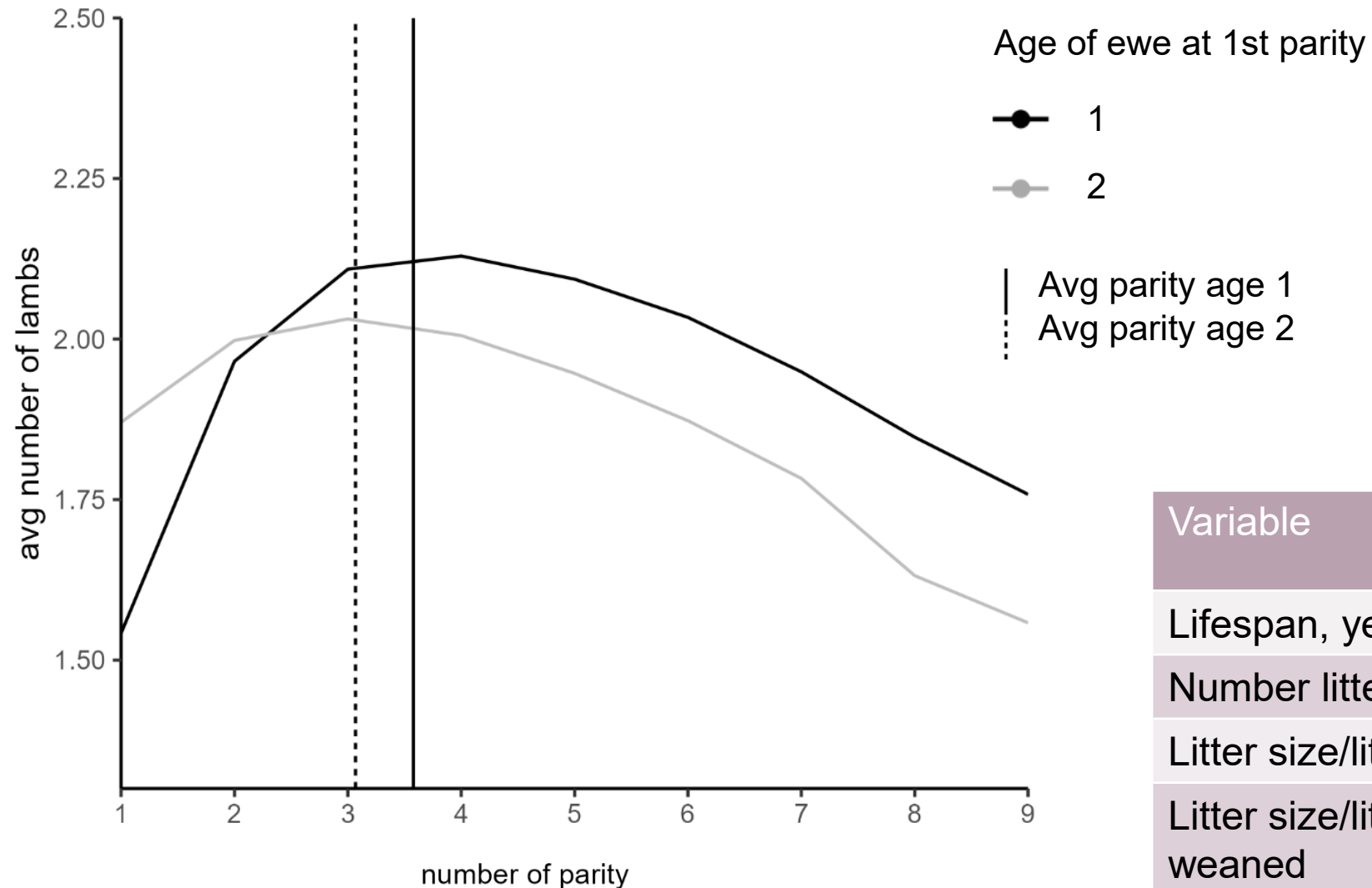
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- + Age of ewe at first parity * Weaned code
- + Age of ewe at first parity * Early Parturition
- + Age of ewe at first parity * County
- + Litter size * Late Parturition
- + Litter size * County
- + Litter size * Weaned code
- + Reared code * Weaned code
- + Weaned code * Early Parturition
- + Age of ewe at first parity * Litter size * Reared code
- + Herd Year

Age of ewe at first parity

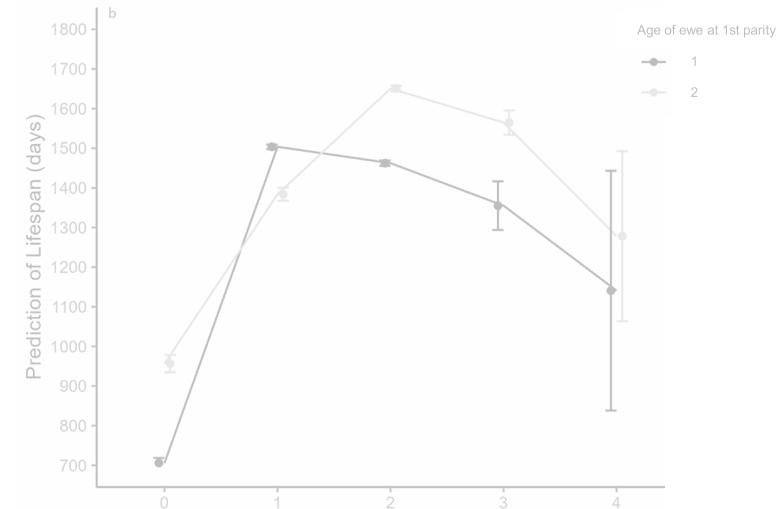
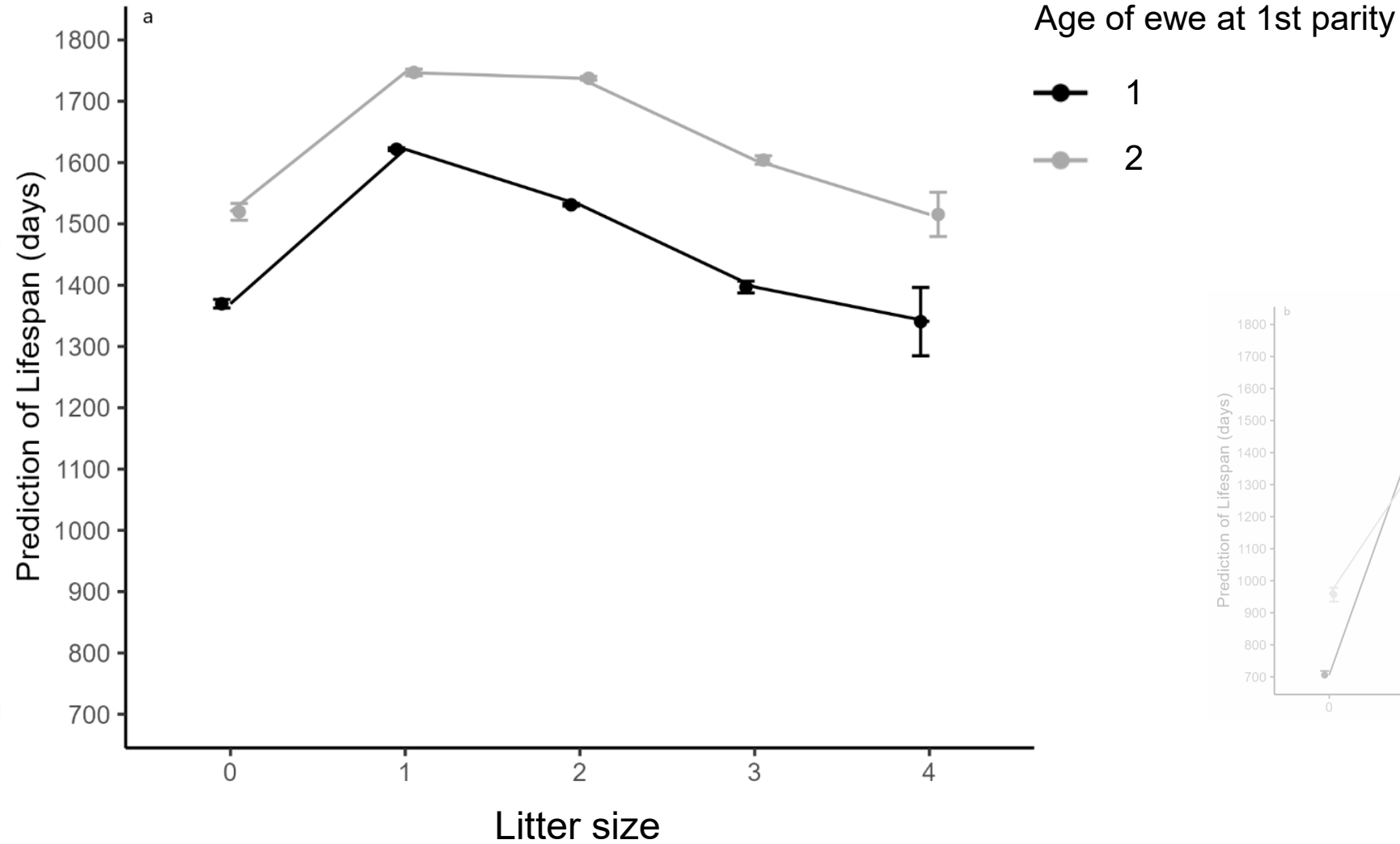
- + Litter size
- + Reared code
- + Weaned code
- + Early Parturition
- + Late Parturition
- + County

Lifetime performance based on age at 1st parity

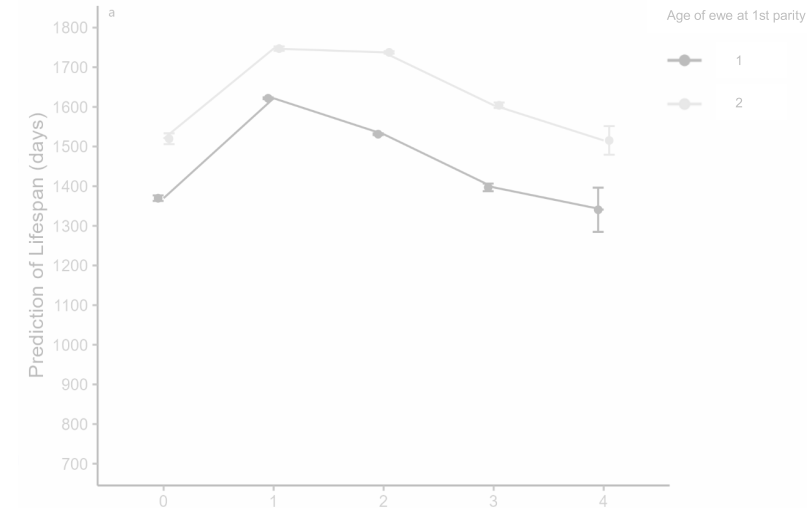
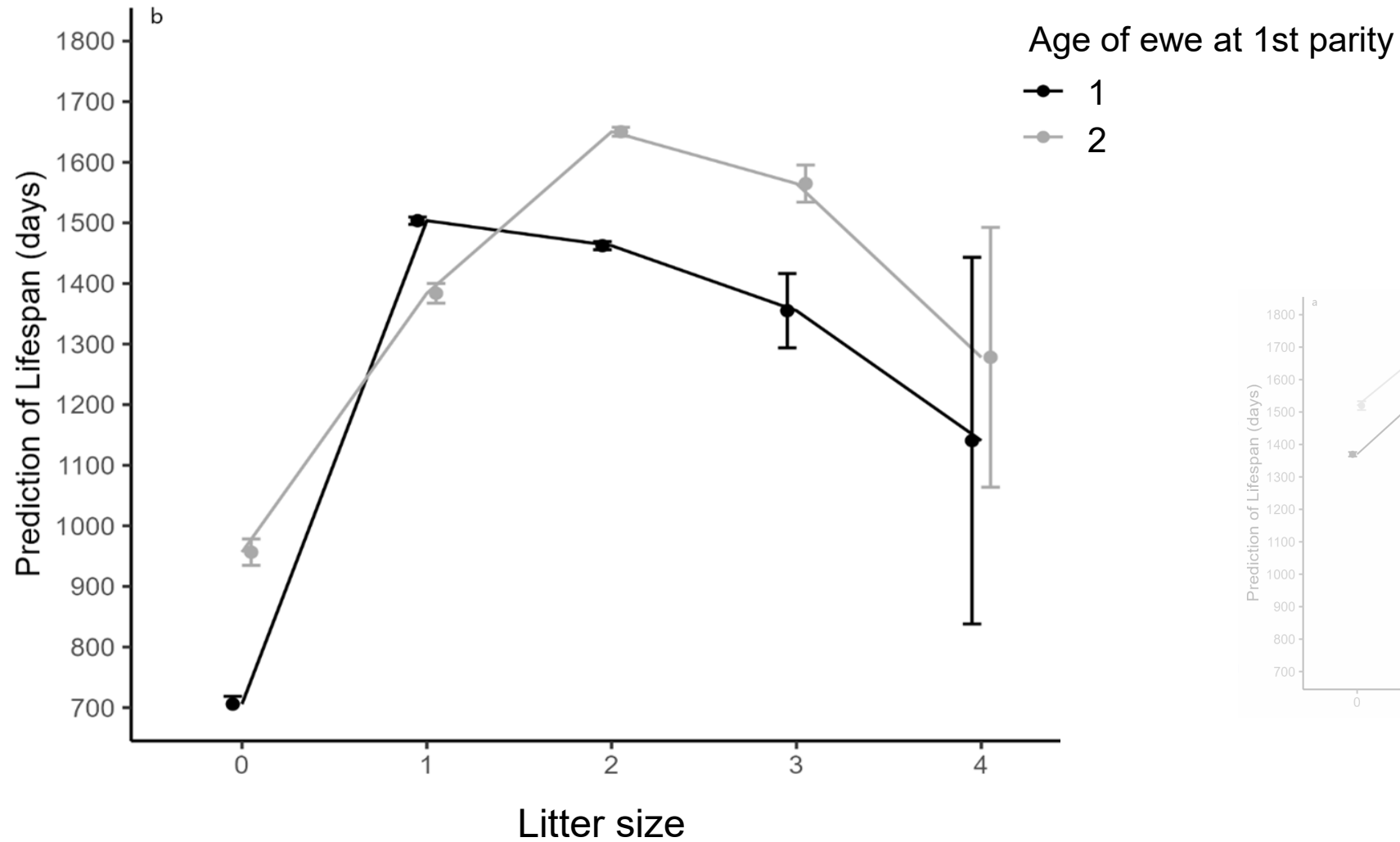


	1 yrs	2 yrs
Variable	Mean	Mean
Lifespan, years	4.23	4.73
Number litters	3.58	3.07
Litter size/litter, born	1.95	2.06
Litter size/litter, weaned	1.65	1.74

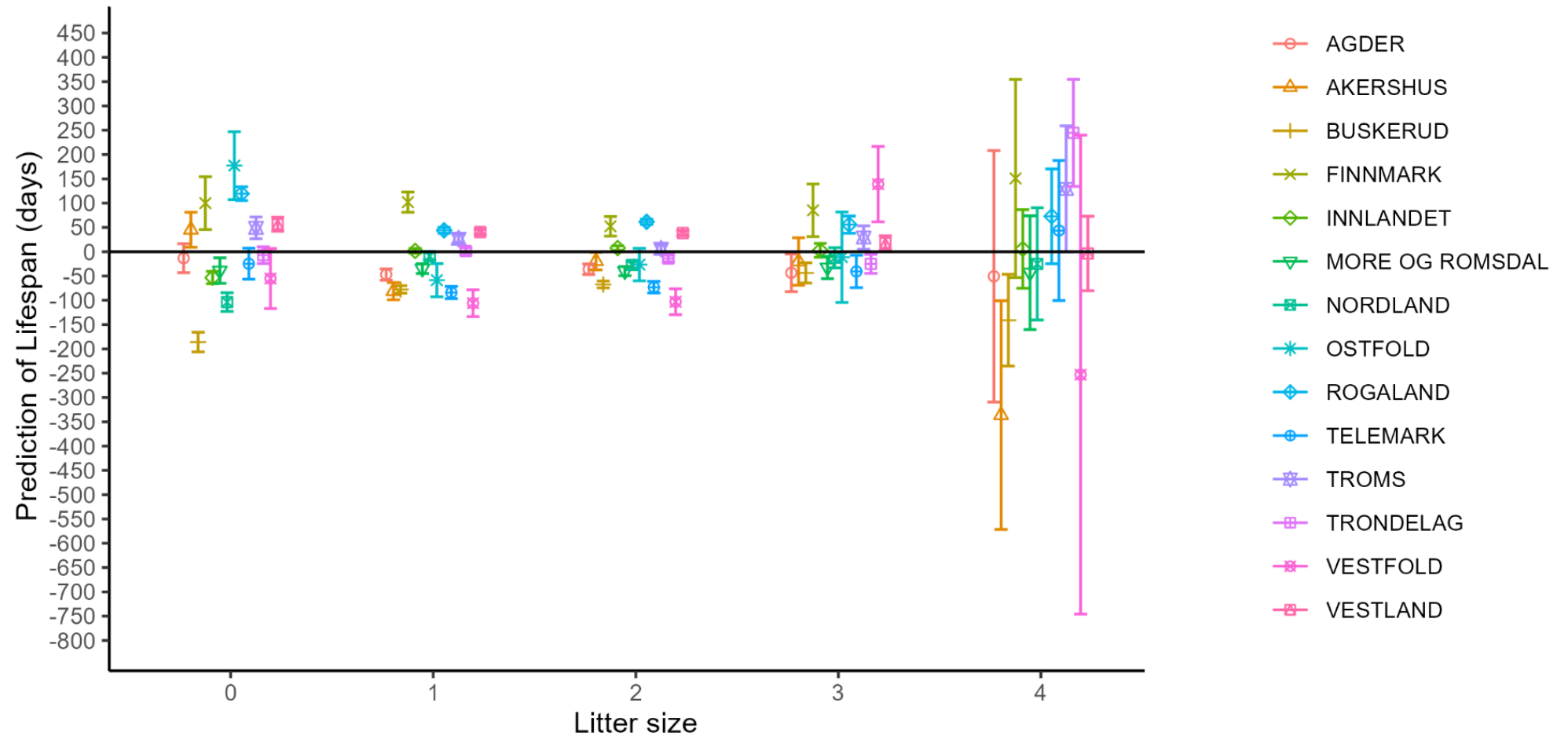
Predicted lifespan per litter size



Predicted lifespan per litter size

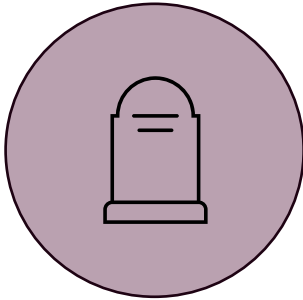


Predicted lifespan per county

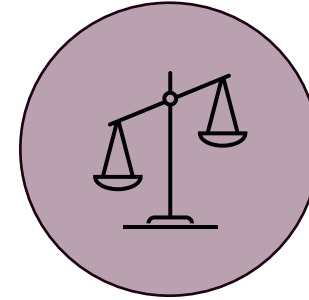


Conclusion

Ewes mated as lambs...



Live shorter lives



More parities
outweigh production



Farmers buffer
environmental
variation