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# Comparison of Lifetime Production in Bovec and Improved Bovec Sheep

*Kompan, D.&Gorjanc, G.,*

*University of LJUBLJANA,  
Biotechnical Faculty,  
Department of Animal Science, Groblje 3, 1230 DOMZALE,  
Slovenia  
drago.kompan@bf.uni-lj.si*



## The Bovec sheep breed



- distinctive dairy breed
- fine head structure
- short ears
- wool is rough
- white, brown or black
- sheared off twice a year
- body is relatively small
- a horn-less head
- short and slim legs
- body weight rams 45 to 50 kg
- weight for ewes 35 and 40 kg



## The data



- Included ewes, born from 1991 till 1995
- All these animals was included in recording system
- All these animals finish the production (normal)
- By each of them the exclusion reason was known
- The reason for exclusion like: **damages, predators or dog attacks** -these animals was not included in the study
- The data set include **1734** Bovec sheep breed and **520** Improved Bovec sheep breed



## The goal of the research



- to determine the lifetime production (Bovec sheep compared with improved Bovec sheep)
- Lifetime production of
  - milk
  - fat
  - protein
  - number of born lambs



# Estimation with the statistical program R



## RESULTS

### lifetime **milk** yield

improved Bovec sheep 1.120 kg

Bovec sheep with 910 kg.

### lifetime **fat** production

improved Bovec sheep 31,0 kg

Bovec sheep 37,7 kg



Lifetime number of born, live born and weaned lambs was higher for about one lamb in Improved Bovec breed



# The best five animals



## Milk yield (kg) live production was

by improved Bovec sheep - between 1.933 and 2.767

by Bovec sheep - between 3.234 and 4.118

## Fat production (kg)

by improved Bovec -between 121 and 153

by Bovec sheep value -between 182 and 250

## Protein production (kg)

improved Bovec sheep 104 and 149

Bovec sheep between 173 and 216





IF



In live production milk and milk components where no big difference between improved Bovec and Bovec sheep

However, if **the mean metabolic weight** of breeds is taken into account **the difference in milk production** amounts to only about ~6 % (or only ~2 % for FPC milk).



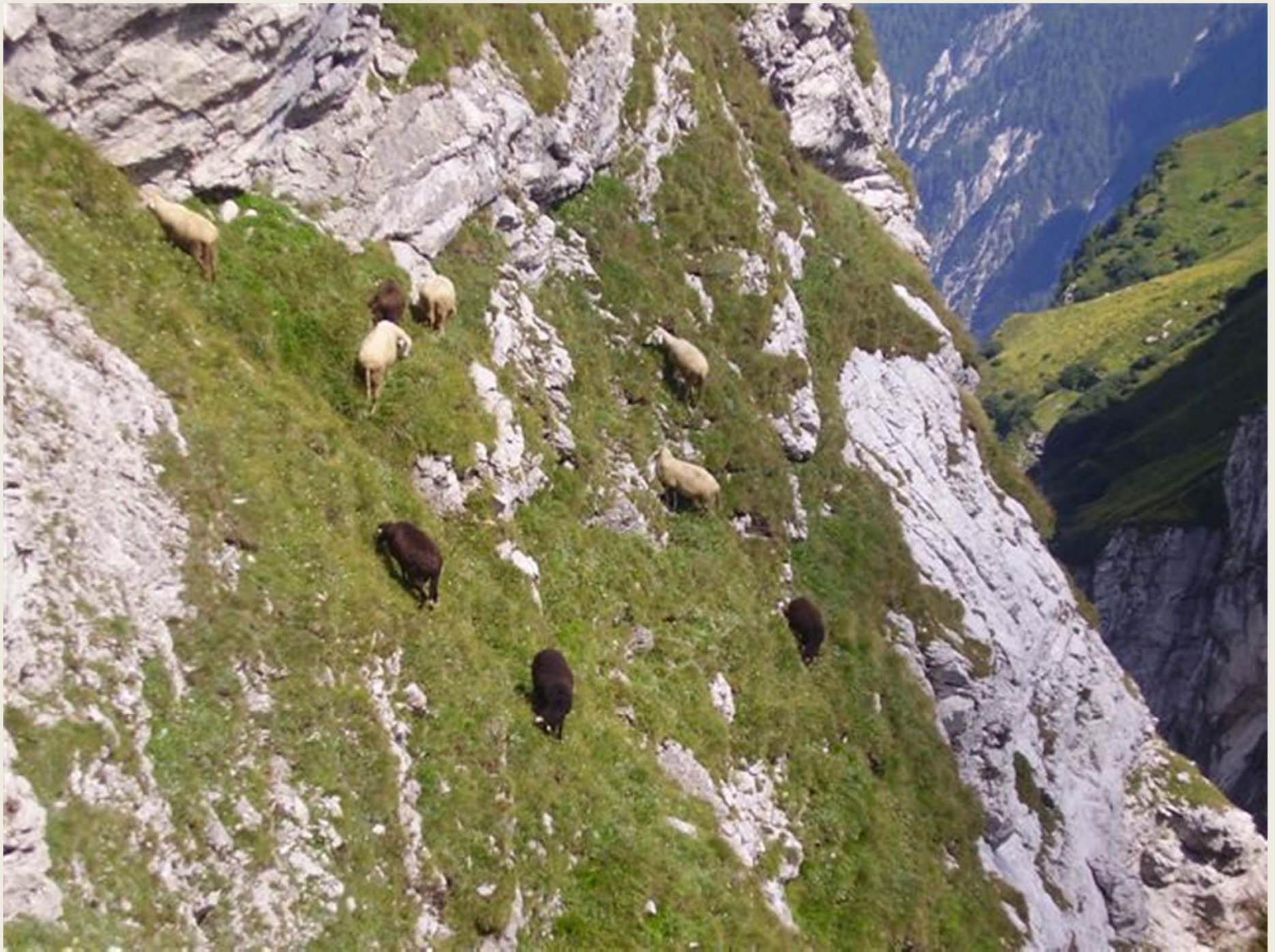


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The Bovec breed has satisfactory milk production, but too low body weight for intensive milk production but is a good for environmental in harsh conditions

Low body weight makes this breed suitable for extensive farming in hilly and mountain areas.



# Thank you!

