

Senegal Dairy Genetics: Milk Composition of Dairy Cattle Breeds in Senegal

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- The objective of the Senegal Dairy Genetics project in this study is to determine the milk composition of the various dairy cattle breeds found within the project sites.
- 4 major groups identified out of 241 individual animals:

Group1:
Pure local
zebu breeds



Group2:
75% local zebu
x 25% exotic zebu

Group3:
50 % local zebu
X 50% exotic
taurine breeds



Group4:
Pure exotic
taurine breeds

- Analyses were carried out using a field milk analyser (LactiCheck Analyser®)

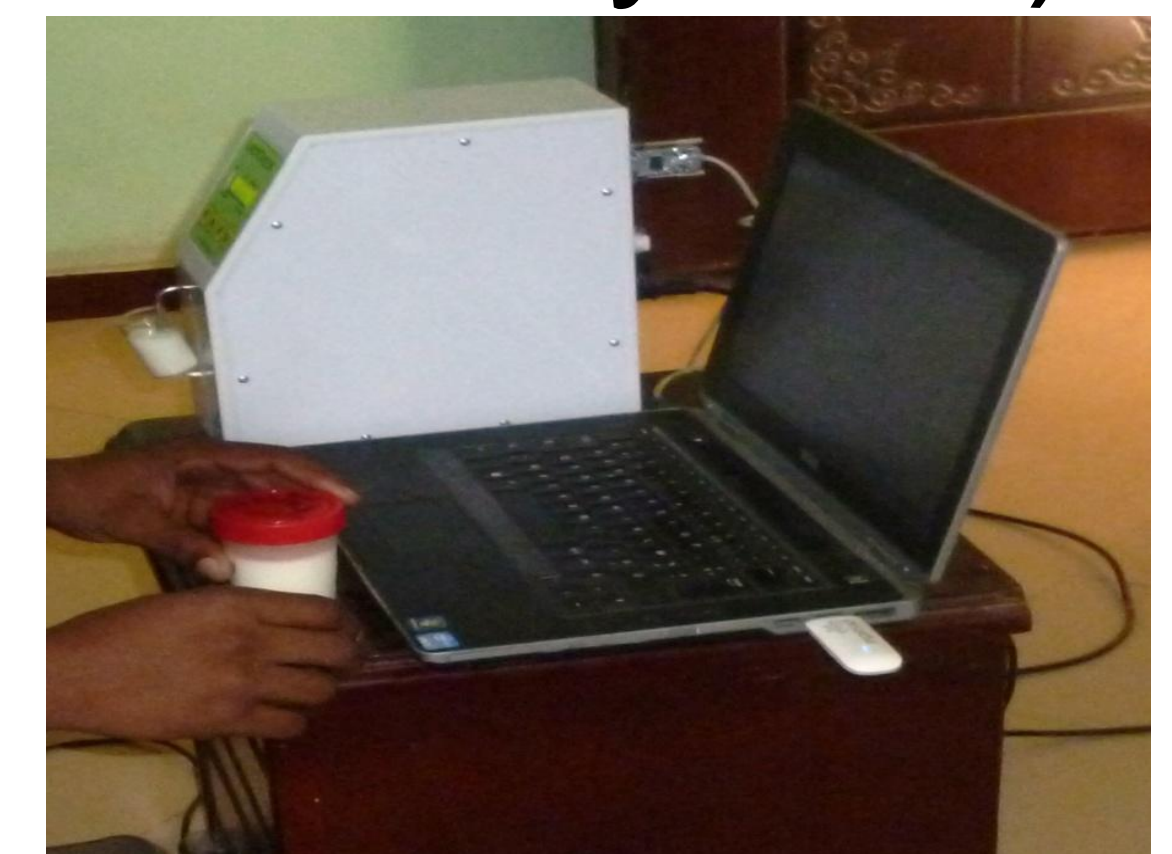


Table I: Fat and Protein milk contents derived from 4 dairy cattle breeds groups in Senegal.

✓ Solids-not-fat and lactose were constants

| | Group 1(n=132) | Group 2(n=38) | Group 3(n=56) | Group 4(n=15) |
|----------------------------|----------------|---------------|---------------|---------------|
| Fat (%) ± SE | 4,88 ± 0,13 | 5,14 ± 0,23 | 5,11 ± 0,22 | 5,75 ± 0,47 |
| Protein (%) ± SE | 3,68 ± 0,02 | 3,68 ± 0,03 | 3,52 ± 0,03 | 3,74 ± 0,06 |

- The different breeds of dairy cattle in Senegal differed in regards to their protein milk composition
- This result has practical implications for soured milk or yoghurt manufacturing