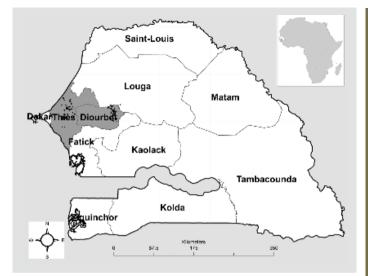
Dairy cattle keeping

IN SENEGAL

2 INTRODUCTION





This document presents results from a study on cross-bred dairy cattle in the Thies and Diourbel regions of Senegal. It is designed to assist cattle keepers in these regions on decision making around keeping cross-bred dairy cattle.

Collaborators on the study

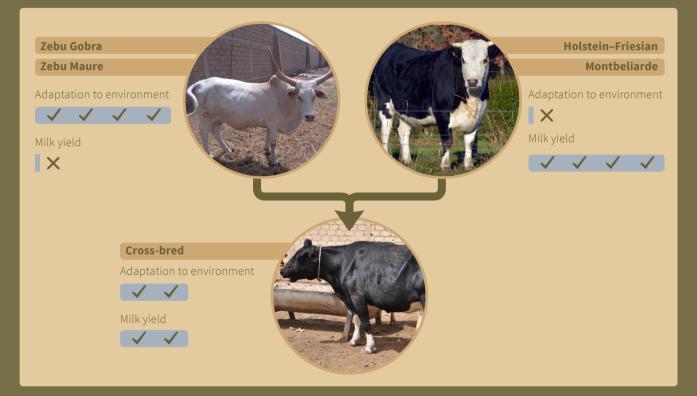
- Ecole Inter-Etats Des Sciences Et Médecines Vétérinaires de Dakar, Dakar, Senegal
- The International Livestock Research Institute, Nairobi, Kenya
- University of Helsinki , Helsinki, Finland
- Natural Resources Institute Finland (Luke), Jokioinen, Finland

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For more information on this study, contact Professor Ayao Missohou: missohou@gmail.com

TOP LEFT: Map showing study site. BOTTOM LEFT: Cross-bred dairy cattle

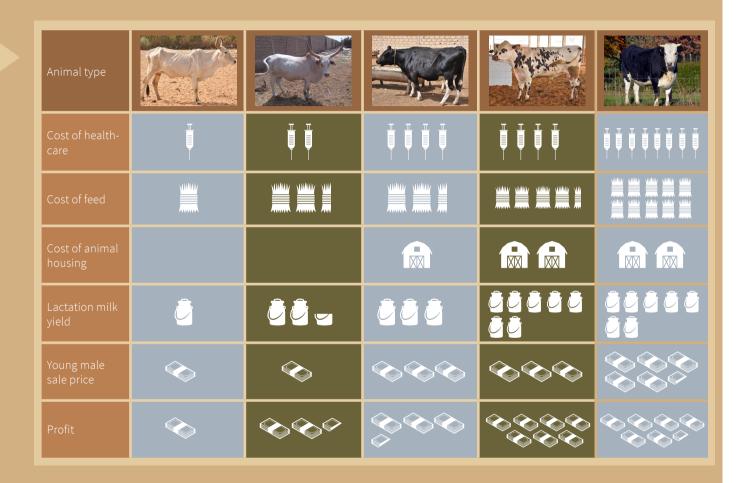


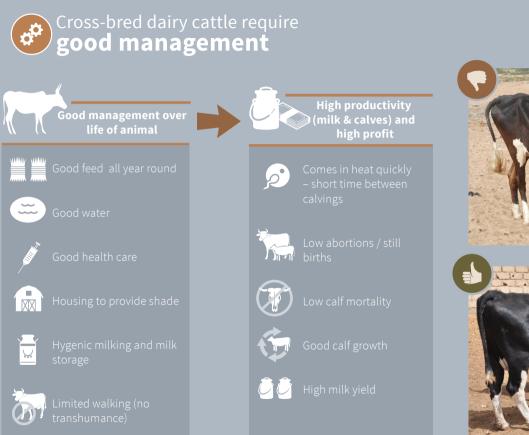




Cross-bred dairy cattle can result in high household profit

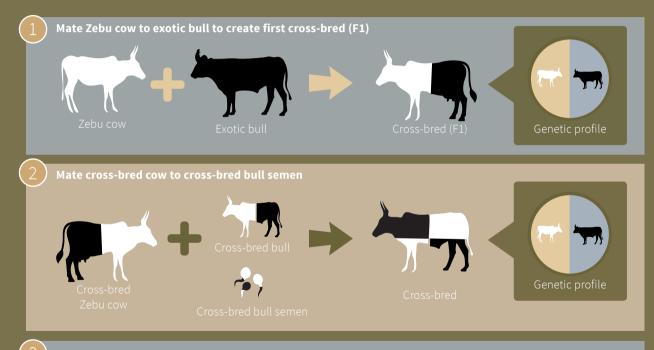
| CFA | Indigenous Zebu – poor management | Indigenous Zebu – fair management | Cross-bred – fair management | Cross-bred – good management | Exotic – very good management | |
|--|--------------------------------------|--------------------------------------|---------------------------------|---------------------------------|----------------------------------|--|
| Annual mature female health cost (CFA per cow) | | 425 | | 800 | | |
| Annual mature female feed cost (CFA per cow) | | 193,000 | | 394,500 | | |
| Annual animal housing cost (CFA per herd) | | 2,000 | | 112,500 | | |
| Annual milk-offtake (litres) | | 568 | | 1,315 | | |
| Young male sale price (CFA per animal) | | 176,000 | | 536,000 | | |
| Profit (CFA per cow per annum) | | 142,041 | | 445,585 | | |





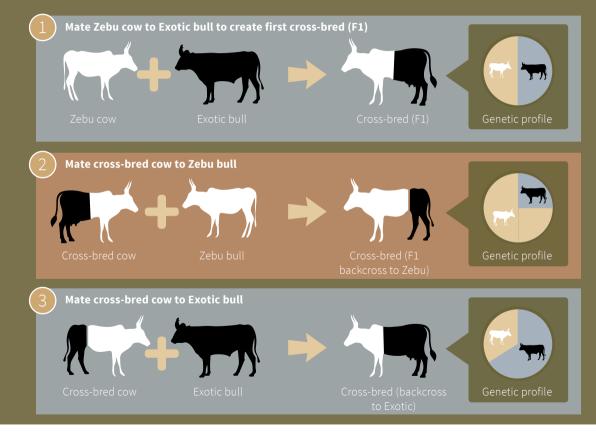


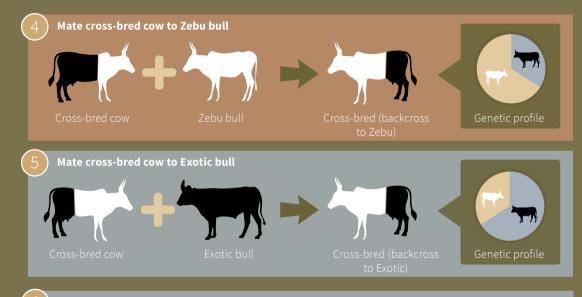
Breeding cross-bred dairy cattle: cross-bred bull or cross-bred bull semen



 $^{\circ}$ Continue to mate cross-bred cows to cross-breed bulls (naturally or via artificial insemination)

Breeding cross-bred dairy cattle: rotational mating





Continue to mate cross-bred cows alternatively between Zebu and Exotic bulls

Decision-making on keeping cross-bred dairy cattle

- How will I breed the animals?
 - 🕐 Can I access cross-bred semen
 - ? Can I receive training / advice on preparing animals for artificial insemination?
 - ? Can I access good quality Zebu and Exotic bulls or semen?

Can I provide good animal management?

- (?) Can I receive training / advice on keeping cross-bred animals?
- Who will provide labour for caring and milking of animals?
- Can I provide adequate and safe feed including during the dry season?
- **?** Can I milk hygenically?
- ? Can I join an organization for better input prices?
- (?) Can I access credit to purchase inputs if needed?



Considirations for both women and men household members

Can I sell the milk?

- Who will provide labour for processing and selling of milk?
- (?) Who will buy the milk?
- Can I join an organization for better milk sale prices?
- (?) Who will control the income form the sale of milk?

How will this affect other livelihood activities?

- Will there be enough time for child-care and other household activities?
- Will there be enough time for other livestock, cropping?
- (?) Will there be enough time for off-farm activities?

For more information on keeping cross-bred dairy cattle please contact:

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RESEARCH PROGRAM ON Livestock and Fish







UNIVERSITY OF HELSINKI

