

REVIEWER'S REPORT

Manuscript No.: IJAR-59034

Title: Performance of Reproduction of Two Crossed Cattle Breeds in the Marahoue Region in the Centre-West of Cote d Ivoire,

Recommendation:

Accept after major revision

Rating	Excel.	Good	Fair	Poor
Originality	yes			
Techn. Quality		good		
Clarity		good		
Significance	yes			

Reviewer's ID: JPR-237

Detailed Reviewer's Report

The manuscript is well written which is addressing a very important and valuable topic by comparing reproductive performance of N' Damont and N' Damol crossbred heifers in Côte d'Ivoire. The study will help the management and production of cattle through crossbreeding and artificial insemination. Before the consideration for the publication this manuscript require revision in several issue found during reviewing procedure of the manuscript. The following issues should be addressed:

1. The interpretation of p -values is inconsistent. Statements such as "not statistically significant ($p < 0.05$)" and "significant difference ($p > 0.05$)" should be corrected. The actual p -values should be reported wherever possible.
2. The study includes only 42 animals per genetic group. The authors should provide a justification for the sample size and discuss its implications for statistical power.
3. The oestrus synchronization and artificial insemination protocols should be described more precisely, including semen characteristics, bull information, inseminator experience, and pregnancy-diagnosis procedure.
4. Numerical data should be presented in appropriate tables, including the number of animals used as denominators for each reproductive parameter.
5. Some explanations, particularly regarding hormonal imbalance, anti-trophoblast antibodies, climatic adaptation, and calf mortality, appear speculative. These interpretations should be supported by stronger evidence or presented more cautiously.
6. The reference list and in-text citations should be carefully checked for accuracy, consistency, and completeness.
7. Improve English language, grammar, and scientific terminology throughout the manuscript.
8. Use consistent terminology for "pregnancy rate" and "gestation rate."
9. Ensure that all figures have clear legends, units, sample sizes, and statistical information.
10. Correct formatting and numbering of figures and sections.
11. The conclusion should be more closely aligned with the actual statistical findings and avoid claims of superiority where differences were not significant.