Kenya Agricultural & Livestock Research Organization

**Project Title:** Enhanced sustainable productivity and competitiveness of the dairy sub-sector in Kenya through improving reproductive efficiency at farm level

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<tr>
<th><strong>Institute</strong></th>
<th>Veterinary Research Institute</th>
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<td><strong>Center(s)</strong></td>
<td>KALRO Muguga North</td>
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<tr>
<td><strong>Principal Investigator</strong></td>
<td>E.N Mungube;</td>
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<td><strong>Other investigators</strong></td>
<td>Moses Olum; John Kidali; James Njanja;</td>
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<td><strong>Problem Statement</strong></td>
<td>Infertility leading to reduced reproduction efficiency</td>
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**Objective(s)**

1. To establish and document main reproductive efficiency parameters like age at first service, conception rates, abortion rates, heat detection practices, repeat breeding, calving intervals to assist in formulating strategies for addressing them
2. To quantify and inventories reproductive diseases and establish their roles in infertility and sub-optimal production in the smallholder dairy farms
3. To establish the relationship between husbandry practices within a dairy herd and the sub-optimal production
4. To identify the breeding methods in use and their roles in influencing sub-optimal production
5. To recommend, package and disseminate strategies for addressing identified reproductive constraints

**Planned Activities**

1. Farm visits and physical animal examination
2. Laboratory milk and blood sample analysis for target disease antibodies
3. Data entry and analysis
4. Formulation of guidelines for reducing infertility in milk
5. Report writing

**Outputs**

1. 300 milk samples tested for Brucellosis using milk antibodies
2. 300 milk samples tested for Brucellosis using milk antibodies
3. 180 questionnaires administered to identify predisposing factors of infertility
4. Common infections causing infertility identified
5. Guidelines for reducing bovine infertility formulated
6. Project report

**Outcomes**

Produced guidelines on infertility in dairy cattle, that will led to enhanced dairy cattle production

**Budget**

5,397,140.00

**Start date**

2017-08-01

**End date**

2019-08-31

**Funded by**

USAID;

**Collaborators**

Ministry of Agriculture, Livestock & Fisheries;