



<b>Project Title:</b>	Assessing awareness and adoption of ECF immunization on the beef and dairy value chains in selected Counties in Kenya		
<b>Annual Report</b>	<b>Period Covered:</b>		
<b>KCSAP livestock Applied</b>	<b>Value chain:</b> Beef and Dairy	<b>Duration:</b> 18 Months	<b>Start Date:</b> Oct 2020
<b>Lead Institution:</b>	KALRO-VSRI		
<b>PI and contacts</b>	Samuel Omwenga <a href="mailto:s_omwenga@yahoo.com">s_omwenga@yahoo.com</a>		
<b>Collaborators and their contacts:</b> Ndirangu, P.N.: KALRO-VSRI Muguga, P.O. Box 32-00902, Kikuyu Murage, A.: KALRO-Headquarters, P.O. Box 57811- 00200, Nairobi. Biwott, M.: KALRO-Headquarters, P.O. Box 57811- 00200, Nairobi. Ogali, I.: KALRO-VSRI Muguga, P.O. Box 32-00902, Kikuyu			
<b>Background</b> In order to effectively control East Coast fever (ECF), an endemic cattle disease in Kenya which not only causes huge economic losses but is also associated with high cost of control, the then KARI and partners developed a vaccine which is used in the control of this disease. The vaccine is currently being promoted in many counties where ECF is endemic. However, information on its economic impact is scanty despite the fact that it required for decision and policy-making in the livestock sector. This justified a study in Kajiado and Uasin Gishu Counties where the vaccine has been used for long time.			
<b>Objectives:</b> <ol style="list-style-type: none"><li>1. To evaluate the awareness and uptake of ECF vaccine among dairy and beef farmers in Kajiado and Uasin Gishu counties.</li><li>2. To carry out an economic impact assessment of ECF vaccine among the dairy and beef farmers in Kajiado and Uasin Gishu counties.</li><li>3. To develop policy recommendations for enhancing uptake of ECF vaccine among dairy and beef farmers.</li><li>4. To disseminate policy recommendations among the stakeholders.</li></ol>			
<b>Expected Outputs</b> <ol style="list-style-type: none"><li>1. Information on levels of awareness and uptake of ECF vaccine among dairy and beef farmers in Kajiado and Nakuru counties.</li><li>2. Information on use or adoption of ECF vaccine among dairy and beef farmers in Kajiado and Uasin Gishu counties.</li><li>3. Policy recommendations for enhancing uptake of ECF vaccine among dairy and beef farmers developed.</li><li>4. Policy recommendations shared among the stakeholders.</li></ol>			

## **I ACHIEVEMENTS**

**Objective 1:** To evaluate the awareness and uptake of ECF vaccine among dairy and beef farmers in Kajiado and Uasin Gishu counties.

### **Activity 1.1** Planning meeting and inception workshop

**Achievement:** Several planning meetings held at VSRI Muguga.

Project inception workshop was combined with ECF-vaccine manufacturers' workshop held at KALRO - VSRI Muguga on 7<sup>th</sup> October, 2020.

### **Activity: 1..2** Sensitization of key stakeholders and project scoping

**Achievement:** Sensitization of key stakeholders and project scoping undertaken in Kajiado County on 12<sup>th</sup> to 16<sup>th</sup> October, 2020 and in Uasin-Gishu County on 17<sup>th</sup> to 24<sup>th</sup> December, 2020

### **Activity: 1.3** Development and pre-testing of research tools.

**Achievement:** Research tools were developed in a workshop held at DTI-Naivasha on 27<sup>th</sup> - 30<sup>th</sup> October, 2020.

Pre-testing of data collection tools undertaken in Nakuru County on 25<sup>th</sup> - 27<sup>th</sup> November, 2020.

### **Activity: 1.4** Recruitment and training of enumerators

**Achievement** Enumerators were recruited in both Uasin-Gishu and Kajiado counties. A total of 11 enumerators (5 from Ainabkoi and 6 from Kajiado) were identified and trained on field data collection using both the questionnaires and checklists. In addition, data collection sites were mapped out, sampling strategy and sample size agreed upon.

### **Activity: 1.5** Field data collection (interviews, FGD, KII) in Kajiado and Uasin Gishu.

**Achievement** Field socio-economic survey in both counties was undertaken on 14<sup>th</sup>–26<sup>th</sup> June, 2021. The following were achieved:

1. Socio-economic survey conducted in 4 sub-locations of Ainabkoi Olare ward and 6 villages in Matapato ward.
2. A total of 184 questionnaires administered to cattle farmers (91 in Ainabkoi Olare in Uasin Gishu and 93 in Matapato in Kajiado).
3. Data collected from interviewing 9 Animal Health Service Providers (AHSPs): 4 from Uasin-Gishu and 5 from Kajiado).

Seven agro-vet operators were interviewed: 3 from Uasin-Gishu and 4 from Kajiado.

### **Activity: 1.6** Data entry and cleaning

**Achievements** All data collected was divided into data sets namely: 4 KII, 9 from AHSPs, 7 from agro-vet operators and 184 farmer questionnaires split into cohorts like those using ECF vaccine and those not using. The data was entered and cleaned.

**Objective 2:** To carry out an adoption analysis of ECF vaccine among dairy and beef farmers in Kajiado and Uasin Gishu Counties

### **Activity: 2.1** Workshop for data analysis and report writing

**Achievements:** Workshop for data analysis and report writing was held at DTI Naivasha on 12<sup>th</sup> - 17<sup>th</sup> October, 2021. The following were achieved:

- a. Cattle farmers' questionnaire data was statistically analyzed.
- b. Animal health service providers (AHSPs) data analyzed.
- c. Summary statistics for KIIs generated.
- d. Two GIS maps: study sites and ECF vaccine distribution.
- e. Developed a draft report on ECF vaccine awareness in the two counties.

**Activity: 2.2** Field Data analysis and economic modelling and report writing

**Achievement** Economic modeling and report writing workshop held at DTI Naivasha on 24<sup>th</sup> - 29<sup>th</sup> October, 2021. The following were achieved:

1. Economic modeling: quantification of benefits of using ECF vaccine.
2. A draft project report on economic benefits of using ECF vaccine

**Activity 2.3** Stakeholders' workshop to solicit feedback

**Achievement** Stakeholders soliciting workshops held in Uasin-Gishu and Kajiado Counties on 28<sup>th</sup> November - 5<sup>th</sup> December, 2021. The outputs of the workshops were:

1. Two cattle farmer feedback soliciting workshops held. In Kajiado 10 participants (6 males and 4 females) attended while in Uasin Gishu 8 participants (4 males and 4 females) attended.
2. Two key-informant feedback soliciting workshops held.
3. Built consensus on the content of the two reports (awareness and economic benefits) with stakeholders (cattle farmers and key informants).

**II Other achievements** (e.g. patents, publication such as journal papers, technical reports, presentation in workshops and conferences etc.,). List them with proper citations

None

### **III Constraints and how they were overcome**

None for now.

### **IV Summary of funds received, accounted for and balance**

<b>Project Amount (KES)</b>	<b>Amount Received (KES)</b>	<b>Amount accounted for (KES)</b>	<b>Balance (KES)</b>
KES 4,709,379	3,350,550	3,161,550	1,358,829

### **IV Way Forward**

- Activities Planned for the Period Oct 2021-June 2022
- Round table discussions to generate policy recommendations based on results.
- Presentation of recommendations to stakeholders.
- Development of policy briefs.
- Workshop of sharing the findings