



SDI Review Form 1.6

Journal Name:	Asian Journal of Agricultural Extension, Economics & Sociology
Manuscript Number:	Ms_AJAEES_42358
Title of the Manuscript:	Livestock keepers' perception on East Coast fever-immunization (ECFiM) in Kajiado Central, Kenya.
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	ABSTRACT - This portion may be divided into study background, aims, methodology, findings and conclusion with major recommendation / suggestion. INTRODUCTION - Second paragraph needs revision. MATERIAL AND METHODS - Add "Statistical Package for Social Sciences (SPSS) software version 20 spread sheets" reference RESULTS AND DISCUSSION - If comparative data (ECF vaccinated vs. none ECF vaccinated households and constraints faced to livestock stakeholders livestock keepers, animal health service providers for ECF immunization and dissemination); be added to improve the study power - In this study no discussion portion is present? CONCLUSION - Only perceptions of "Maasai" community is quoted, but about other livestock keepers perception in conclusion RECOMMENDATION - On present study give your recommendations. REFERENCES - On Line # 207, 208: Remove these two references as they are not present in the document	This has been done according to reviewers comments in the narrative flow.
Minor REVISION comments	ABSTRACT Line 21, 22: sheep28%. Prioritized livestock diseases: ECF 42.5%, FMD 25%. Sources of ECFiM-vaccines information were ranked as KALRO employees 26.25% and veterinarians16.25%.The importance the ECFiM was ranked as Write instead of above "sheep 28%. Prioritized livestock diseases: ECF 42.5%, FMD 25%. Sources of ECFiM-vaccines information were ranked as Kenya Agricultural Livestock Research Organization (KALRO) employees 26.25% and veterinarians16.25%.The importance the ECFiM was ranked as Line 26, 27: Kenya Agricultural Livestock Research Organization (KALRO) Write instead of above "Write only (KALRO) instead of Delete Kenya Agricultural Livestock Research Organization" (KALRO) INTRODUCTION Line 34: East Coast fever (ECF) disease caused by the protozoan parasite <i>Theileria parva</i> and transmitted by the brown ear tick, <i>Rhipicephalus appendiculatus</i> is a major constraint to cattle production in Kenya and other countries of Africa. Write instead of above "East Coast fever (ECF) disease is caused by the protozoan parasite <i>Theileria parva</i>, transmitted by brown ear tick (<i>Rhipicephalus appendiculatus</i>) that is a major constraint in cattle production in Kenya and other African countries." Line 40: ECF is mainly controlled by intensive application of acaricides chemical. However, there are several drawbacks with this approach. Write instead of above "ECF is mainly controlled by intensive application of acaricide chemicals. However, there are several drawbacks of this approach."	This has been done according to reviewers comments in the narrative flow.



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	Line 42: and lack of appropriate infrastructure in most of this region. Incomplete sentence..... Line 52, 53: anaplasmosis, tick control programme dipping has to continue albeit at a lower interval. The current delivery system of the vaccine is based on KALRO staff training private and public veterinarians who are left to offer the Write instead of above “anaplasmosis, tick control programme of dipping has to continue albeit at a lower interval. The current delivery system of the vaccine is based on KALRO staff training to private and public veterinarians who are left to offer the” Line 55, 56: Since the development of the infection-and-treatment method (ITM) of immunizing cattle against ECF, its uptake and adoption is still very low. The reasons for this are yet to be elucidated. In view of this it was Write instead of above “The adaptation of the “infection-and-treatment method (ITM)” of immunizing cattle against ECF, is still very low. The reasons for this are yet to be elucidated. In view of this it was” MATERIAL AND METHODS Line 65: than 500mm per year and high temperatures ranging from 24⁰c to 37⁰c. The unreliable rainfall makes Write instead of above “than 500mm per year and high temperatures ranging from 24⁰c to 37⁰c. The in-consisted rainfall makes” Line 74: keepers, animal health service providers, perception to ECF immunization and dissemination constraints. Write instead of above “keepers and animal health service providers, above their perception to ECF immunization and dissemination constraints.” Line 76: Data obtained from focus group discussions were sorted out and interpreted in relation to Write instead of above “Data obtained from focal group discussions were sorted out and interpreted in relation to Line 79, 80: using the Statistical Package for Social Sciences (SPSS) software version 20 spread sheets. Write its reference. RESULTS AND DISCUSSION Line 86: The priority livestock kept as shown in table 1. Cattle, goats and ship were the Write instead of above “The priority of livestock kept in the area is shown in table 1. Cattle, goats and ship were the” Table 1: Write the percentage of chicken in the table Line 90: Livestock production is the main source of livelihood in Kajiado Central. The sahiwal is dominant and Write instead of above “Livestock production is the main source of livelihood in Kajiado Central. Sahiwal cattle breed is dominant and” Line 94, 95: vaccines, forages and skills in fodder conservation are still limited. There is therefore need for capacity building by livestock stakeholders. Write instead of above “vaccines, forages and skills in fodder conservation are still limited. The capacity building of livestock stakeholders is therefore needed.” Line 100, 101: Foot and Mouth, Heart water, Pneumonia and Anthrax. There is therefore need for capacity building through ECFIM vaccine awareness as East coast fever is priority threat, to mostly improved breed. Write instead of above “Foot and Mouth, Heart water, Pneumonia and Anthrax. Capacity building through ECFIM vaccine awareness is needed as East coast fever is a priority threat, to mostly improved breeds.	
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	Line 105: Table 2, Line # 3 Heat water Write instead of above “Heart water” Line 108, 109: Livestock keepers ranked sources of information on ECFiM vaccine as shown in table3. KALRO employees whether in shows, television or while in the field disseminate the information. Write instead of above “Livestock keepers ranked sources of information on ECFiM vaccine as shown in table 3. KALRO employees whether television shows or in the field disseminate the information.” Line 116, 117: herds: Immunization against ECF had lower case mortalities, reduces tick control through strategic dipping programme thus reducing acaricides use. Due to the existence of other tick-borne diseases like babesiosis and Write instead of above “herds: Immunization against ECF resulted lower case mortalities, reduced tick control through strategic dipping programme thus reducing the use of acaricides. Due to the existence of other tick-borne diseases like <i>babesiosis</i> and” Line 124: Technical know-how (technology): Animal health service providers interrogated said that the Write instead of above “Technical know-how (technology): Animal health service providers expressed that the” Line 126, 127: the counter. A good number of Animal health service providers cannot afford liquid nitrogen canister and due to this condition they are unable to offer the vaccine. The number of vaccine stockiest need to be trained by Write instead of above “the counter. A significant number of animal health service providers cannot afford to buy and maintain liquid nitrogen containers, due to which condition they are unable to offer the vaccine. The vaccine stockiest need to be trained by” Line 129, 130, 131: Input capital: Veterinarians need capital to start with. They lack initial capital for purchasing ECFiM vaccine and training, initial capital is so dear. Animal health service providers could have pooled resources but poor livestock keepers are not ready to make upfront payment. They need free service as they receive from the Write instead of above “Input capital: Veterinarians need capital to start with adaptation of this technology. They lack initial capital for purchasing ECFiM vaccine and training. Animal health service providers could have pooled resources but poor livestock keepers are not ready to make upfront payment. They need free services as they receive from the” Line 134: Service payment: The monetary conditions in the County have negated ECFiM adoption. Livestock Write instead of above “Service payment: The monetary conditions in the County have negated ECFiM adoption. Livestock” Line 136: value for money services as livestock keeping is a private business. Write instead of above “value of money for services as livestock keeping is a private business.” Line 137: Awareness: Most of the livestock keepers are not aware of ECFiM-vaccine. Those aware are not facilitated to Write instead of above “Awareness: Most of the livestock keepers are not aware of ECFiM-vaccine. Those aware are not facilitated to” Line 139, 140: the vaccine without its promotion. Kenya Agricultural Research Organization and NGOs to enhance the promotion and awareness creation. Write instead of above “the vaccine without its promotion. Kenya Agricultural Research Organization and NGOs are needed to increase the promotion and awareness creation programmes.” Line 141: Packaging: Livestock keepers rely more on service providers for this information which is often Write instead of above Packaging: Livestock keepers rely more on service providers for this information which is often	
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	Line 146: adoption by the three to four dairy cow owners. Write instead of above “adoption by the livestock owners with 3–4 dairy animals.” Line 147: Transportation: Due to the vastness and remote of Kajiado County transportation of the vaccine is very Write instead of above Transportation: Due to vastness of Kajiado County with may remote areas transportation of the vaccine is very Line 149, 150: vaccine. The farmers were of the view that County Government to assist in offering transport services and storage services. This constraints were ranked according to their weight by livestock keepers (table 5). Write instead of above vaccine. The farmers were of the view that County Government should assist in providing transport and storage services. These constraints were ranked according to their weight by livestock keepers (table 5). Line 153: Re-calculate the frequencies and its related percentages Line 156: Accessibility: Access to ECFiM vaccine for livestock production is constrained by inadequate Write instead of above Accessibility: Access to ECFiM vaccine for livestock production is constrained by inadequate Line 172: Write in full, what is “AHAs” Line 174, 175: Affordability: The affordability parameter assessed the ability of households to pay for the vaccines. This survey realized that the Maasai have no problem with ideal costs of inputs. Write instead of above “Affordability: The affordability parameter assessed the ability of households to pay for the vaccines. This survey realized that the Maasai have no problem with ideal costs of inputs is beneficial.” Line 176, 177: Acceptability: The livestock keepers interviewed felt that the technology works if properly used. They welcomed immunization but were constrained by unavailability of ECFiM vaccine. This high level of interest in Write instead of above Acceptability: The livestock keepers interviewed felt that the technology if properly used. They welcomed immunization but were critical due to unavailability of ECFiM vaccine. This high level of interest in CONCLUSION Line 184, 185, 186: climatic conditions. These species are accustomed to browsing on shrubs. Priority cattle diseases were: East Cost Fever, Foot and Mouth Disease, Heart water, CBPP and Anthrax. Sources of Ecf-vaccines information: KALRO– employees, private veterinarians, NGOs, CAHW, ASK and media. The benefit of Ecf-Vaccines: Write instead of above climatic conditions. These species are accustomed to browsing on shrubs. Priority cattle diseases were East Cost Fever, Foot and Mouth Disease, Heart water, CBPP and Anthrax. Sources of Ecf-vaccines information included: KALRO– employees, private veterinarians, NGOs, CAHW, ASK and media. The benefit of Ecf-Vaccines included: Line 187: reduced mortality, reduced tick control/costs, weight gains, no adverse production and high marginal returns. Write instead of above reduced mortality, reduced tick control costs, increased weight gains and high marginal returns. Line 188, 189: The constraints to ECFiM adoption were: technical know-how, financial, services payment, unawareness, packaging and poor infrastructure. Write instead of above The constraints in adaptation of ECFiM included technical know-how, financial, services payment, unawareness, high number of doses per pack and poor infrastructure.	
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	RECOMMENDATION Line 195, 196, 197: trainer in ECFiM delivery and dissemination. County government to provide soft term loans to actors in ECFiM delivery. KALRO to come up with tick control regime to be followed after immunization, in order to reduce acaricides effects on the input costs, build-up of resistance and environmental pollution. County government to Write instead of above trainer in ECFiM delivery and dissemination. County government should provide soft term loans to stakeholders in ECFiM delivery. KALRO should come up with tick control strategy to be followed after immunization, in order to reduce acaricides effects on the input costs, build-up of resistance and environmental pollution. County government should REFERENCES Line 206: Write GoK before Government of Kenya (2009) Human population census report. Ministry of planning and vision (2030) in reference section	
<u>Optional/General</u> comments	Results and discussion part of the manuscript is not discussed in detail; to improve its quality needed to be revised.	This has been done according to reviewers comments in the narrative flow. Thanks for the comments as it has enriched the manuscript