**KM of FAW control practices in Makueni County**

**Introduction**

Fall armyworm (FAW) has become a major pest affecting maize production in Kenya since 2016. The Ministry of Agriculture, Livestock and Fisheries has developed methods and practices to control FAW infestation through research and development sector. This study seeks to assess the knowledge management structure and effectiveness of control practices on Fall Armyworm (FAW) management among smallholder maize farmers in Kilungu, Makueni County, Kenya.

The study aims to:

1. To determine the knowledge management structure of FAW control practices in Kilungu, Makueni County.
2. To evaluate knowledge transfer methods of FAW control practices in Kilungu, Makueni County.
3. To determine the most effective FAW control practices in Kilungu, Makueni County.

The interview takes a maximum of 40 minutes. All the information provided is used for the intended research only; confidentiality of information provided is guaranteed.

1. Do you consent to help us with this research study?

Yes

No

DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Respondent's characteristics**

1. NAME : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. AGE

*Mark only one.*

* 18- 28
* 29-39
* 40- 50
* >50

1. GENDER

*Mark only one oval.*

* Male
* Female
* Prefer not to say

1. Highest education level attained

*Mark only one oval.*

* Primary School Education
* Secondary School Education
* Technical and Vocational College
* University

1. What is your primary source of income?

*Mark only one oval.*

* Maize Production
* Mixed farming
* Dairy Production
* Formal employment
* Informal employment
* Other:

1. What is your monthly income?

*Mark only one oval.*

* < Kshs. 14000
* Kshs. 15 000 - 29 000
* Kshs. 30 000 - 45 000
* Kshs. 46 000 - 60 000
* Kshs. 61 000 - 75 000
* Kshs. 76 000

1. What percentage of it is from the sale of Maize as either a green cob, grain, flour or maize stalks?

*Mark only one oval.*

* 0 %
* < 10 %
* 11 - 30%
* 30 - 50%
* 51 - 70%
* 71 - 89%
* 90 - 100 %

1. Acreage under maize production (Acres)

*Mark only one oval.*

* <1
* 2-5
* 5- 10
* >10

1. What is your approximate cost of maize production per acre?

* <Kshs. 25 000
* Kshs. 26 000 - 28 000
* Kshs. 29 000 - 31 000
* Kshs. 31 000

1. Has your farm ever been infested by FAW in the past or present?

*Mark only one oval.*

* Yes
* No

1. Did you apply any control practices?

*Mark only one oval.*

* Yes
* No

1. If no, explain

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1. If yes, which method did you use?

*Check all that apply.*

* Hand picking
* Plant rogueing
* Use of pesticides
* Use of resistant varieties
* Use of botanical plants e.g. marigold, tithonia, neem, aloe Vera etc.
* Sand or soil
* Use of OMO
* Push pull technology
* Crop rotation
* Intercropping
* IPM
* Traps
* Use of pheromones', FAW predators
* Other:

1. Which of these practices would you advise a fellow maize farmer to use?

*Mark only one oval.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Unlikely | Least likely | likely | Moderately likely | Most likely |
| Hand picking |  |  |  |  |  |
| Rogueing |  |  |  |  |  |
| Pesticides |  |  |  |  |  |
| Resistant varieties |  |  |  |  |  |
| Botanical plants |  |  |  |  |  |
| Sand/soil |  |  |  |  |  |
| OMO |  |  |  |  |  |
| Push pull |  |  |  |  |  |
| Crop rotation |  |  |  |  |  |
| Intercropping |  |  |  |  |  |
| IPM |  |  |  |  |  |
| Traps |  |  |  |  |  |
| Pheromones or predators |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

1. Explain your choice (s)

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1. On a scale of 1-5, how effective are these practices?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Not effective | Somewhat effective | Effective | Moderately effective | Most effective |
| Hand picking |  |  |  |  |  |
| Rogueing |  |  |  |  |  |
| Pesticides |  |  |  |  |  |
| Resistant varieties |  |  |  |  |  |
| Botanical plants |  |  |  |  |  |
| Sand/soil |  |  |  |  |  |
| OMO |  |  |  |  |  |
| Push pull |  |  |  |  |  |
| Crop rotation |  |  |  |  |  |
| Intercropping |  |  |  |  |  |
| IPM |  |  |  |  |  |
| Traps |  |  |  |  |  |
| Pheromones or predators |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

1. What percentage of the total cost of production was used on FAW control practices?

*Mark only one oval.*

* <10 %
* 11 - 25 %
* 26 - 40 %
* 41- 55 %
* 56 - 70%
* 70 %

**KNOWLEDGE STRUCTURE AND ORGANIZATION**

1. How did you get to know about these practices?

*Check all that apply.*

* Sought out information
* Extension programs
* Mass communication campaigns
* Workshops
* Farmer associations

1. Did you pay for the information? How?

*Mark only one oval.*

* Yes
* No
* Other:

1. Which method did you use to ensure you did not lose it or forget?

*Check all that apply.*

* Mental memory
* Pictures
* Note taking
* Recording e.g. video or audio

1. Which method was used to deliver this information to you?

*Check all that apply.*

* Word of mouth
* Printed materials
* Pictures
* Videos
* Voice recording

**KNOWLEDGE EXCHANGE**

1. How willing are you to exchange knowledge on FAW control practices with fellow farmers or anyone

*Mark only one oval.*

* Not very willing
* Somewhat willing
* Willing
* Moderately willing
* Very willing
* Other:

1. Explain your choice.

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1. How often do you exchange knowledge on FAW cultural practices?

*Mark only one oval.*

* Not very often
* Not often
* Often
* Very often
* All the time/ as needed

1. Explain your choice

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1. How do you do it?

*Check all that apply.*

* Communities of practice
* Story telling
* Farmer field schools
* Mass communication campaigns
* Barazas
* Workshops
* Seminars

1. Which platform do you use to share information on FAW control practices with fellow farmers, family members, agric.extension officers, researchers etc.

*Check all that apply.*

* Radio
* Television
* Text messages
* Email
* Videos
* Print media
* Video conferencing tools
* Audio conferencing tools

1. Have you experienced or witnessed a change of the information on FAW control practices?

*Mark only one oval.*

* Yes
* No

1. How did this happen?

*Check all that apply.*

* Transformation e.g. from text to video, video to pictures, or vice versa
* Publication of Indigenous Knowledge
* Misinterpretation
* Translation