THEME :
ECO-SANITARY IMPACT OF PESTICIDES USED FOR IRRIGATED RICE PRODUCTION IN THE LOKA WATERSHED IN SAKASSOU DEPARTMENT, IVORY COAST

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PLAN

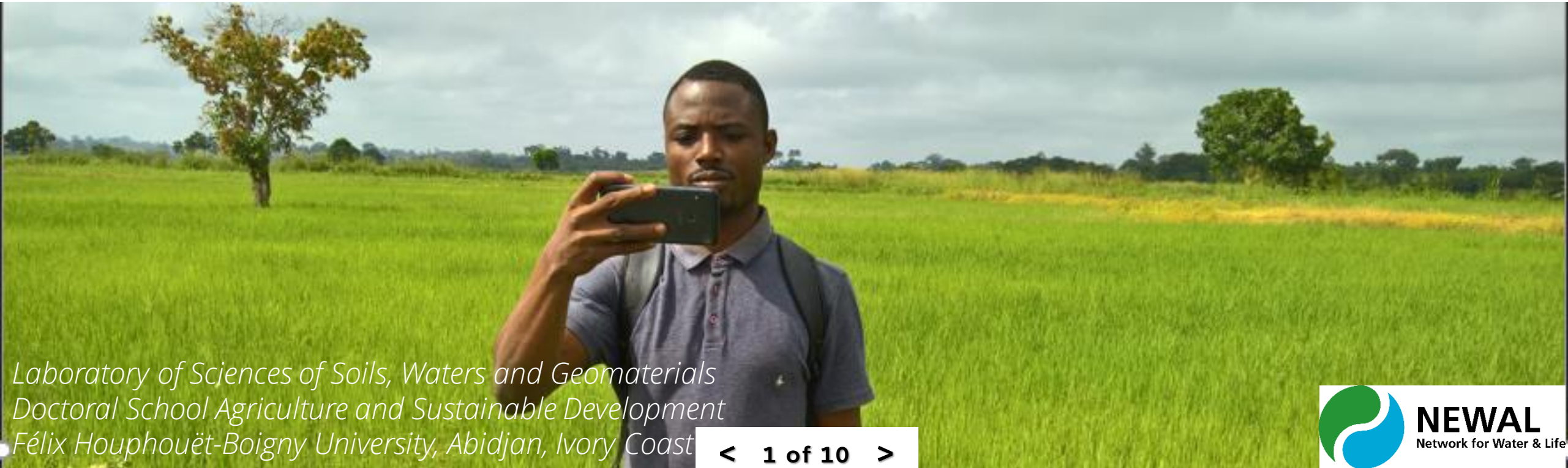
Context

Tasks

Methodology

Results

Outlook



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CONTEXT

In 1983, the government created a rice paddy that stretches along both sides of the Loka River. Irrigation water is discharged into the Loka riverbed. Water from the Loka is used for drinking in the field during fieldwork. Further downstream, the Loka flows into Lake Kossou, where fishing is practiced.

Study of the impact of the abusive and uncontrolled use of pesticides on the quality of surface waters in the Loka watershed and on the health of populations in the Sakassou department (Côte d'Ivoire).

1. Identify the causes of pesticides misuse by the farmers ;
2. Raising farmers' awareness of the dangers of misusing pesticides;
3. Training of farmer’s on the good uses actions of pesticides;

TASKS

➢ SURVEY ➢ AWARENESS ➢ TRAINING ➢ CREATION OF A MONITORING GROUP

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SURVEY

The method use for the survey is one-to-one interviews with a farmers in each village.

Figure 1: Farmers individual interview during survey

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AWARENESS

Awareness-raising was carried out with groups of farmers gathered for this purpose in each village.

Figure 2: Focus group in the villages during Raising-awareness

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TRAINING

The training took place at the cooperative`s head office over 6 days, during which farmers from each village mobilized to attend the training.

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Figure 3: Training session on cooperative management

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MONITORING GROUP

- Monitoring and evaluation group
- Donation of personal protective equipment

Figure 4: Training session on cooperative management

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EDUCATION LEVEL OF LOKA FARMER'S AND PESTICIDES INSTRUCTIONS READING

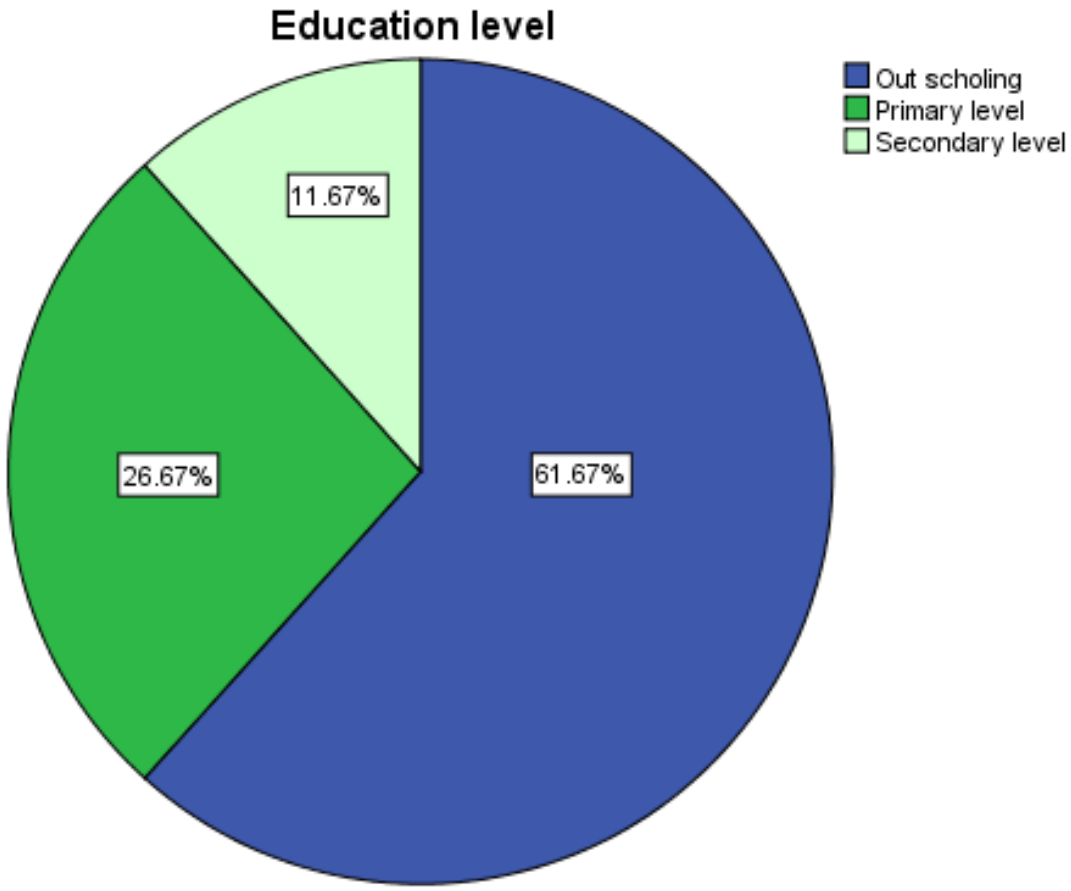

Figure 5: Farmer's education level

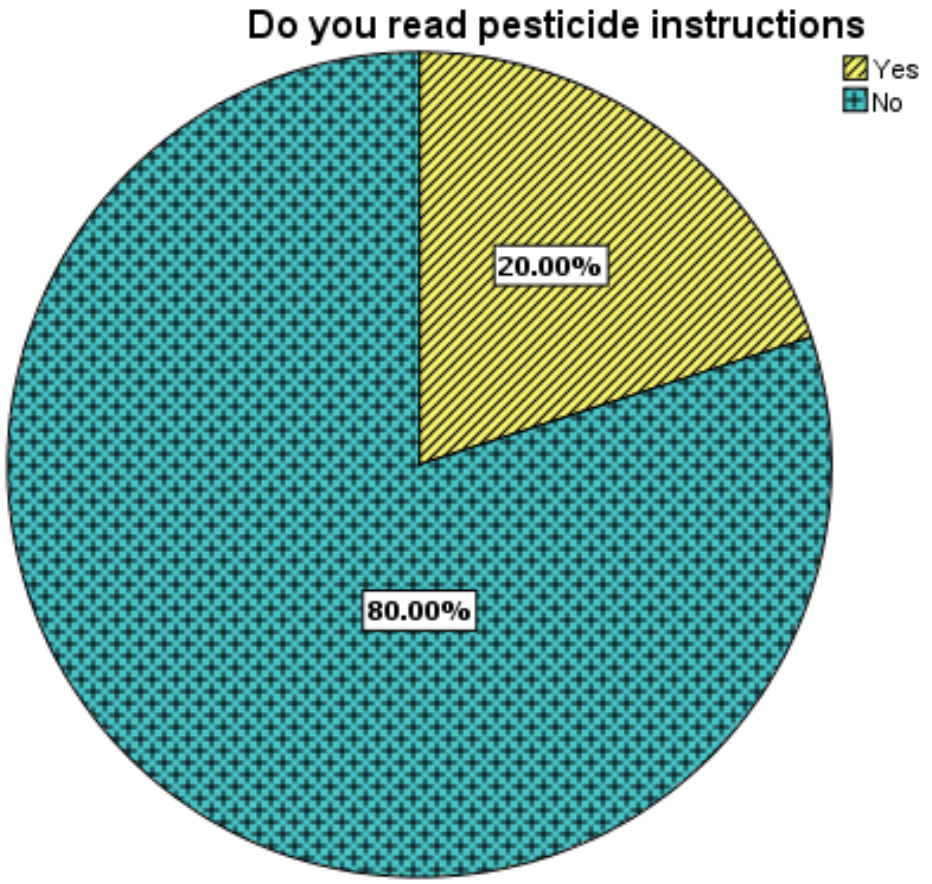

Figure 6: Read pesticides instructions

61.67% are out schooling;

26.67% for primary;

11.67% for secondary;

80% not read

20% read

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WEARING PPE

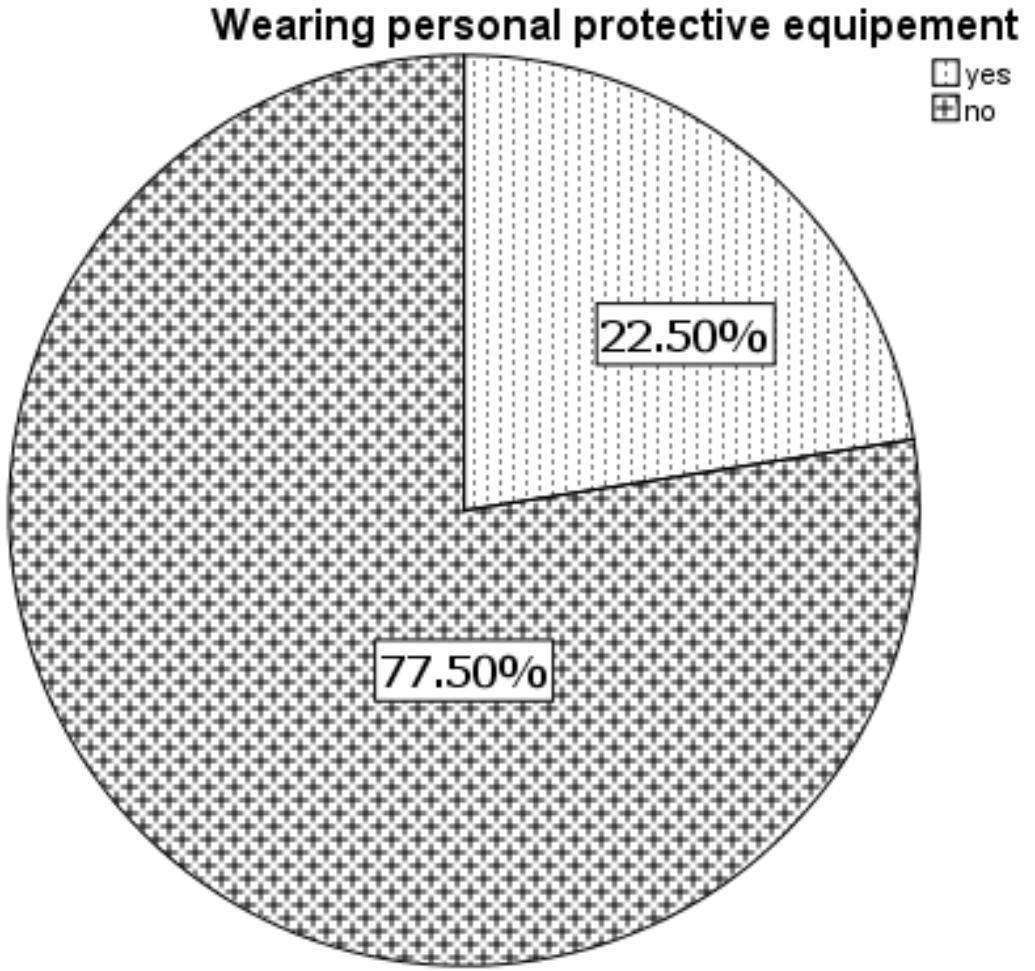

Figure 7: PPE held by each farmer

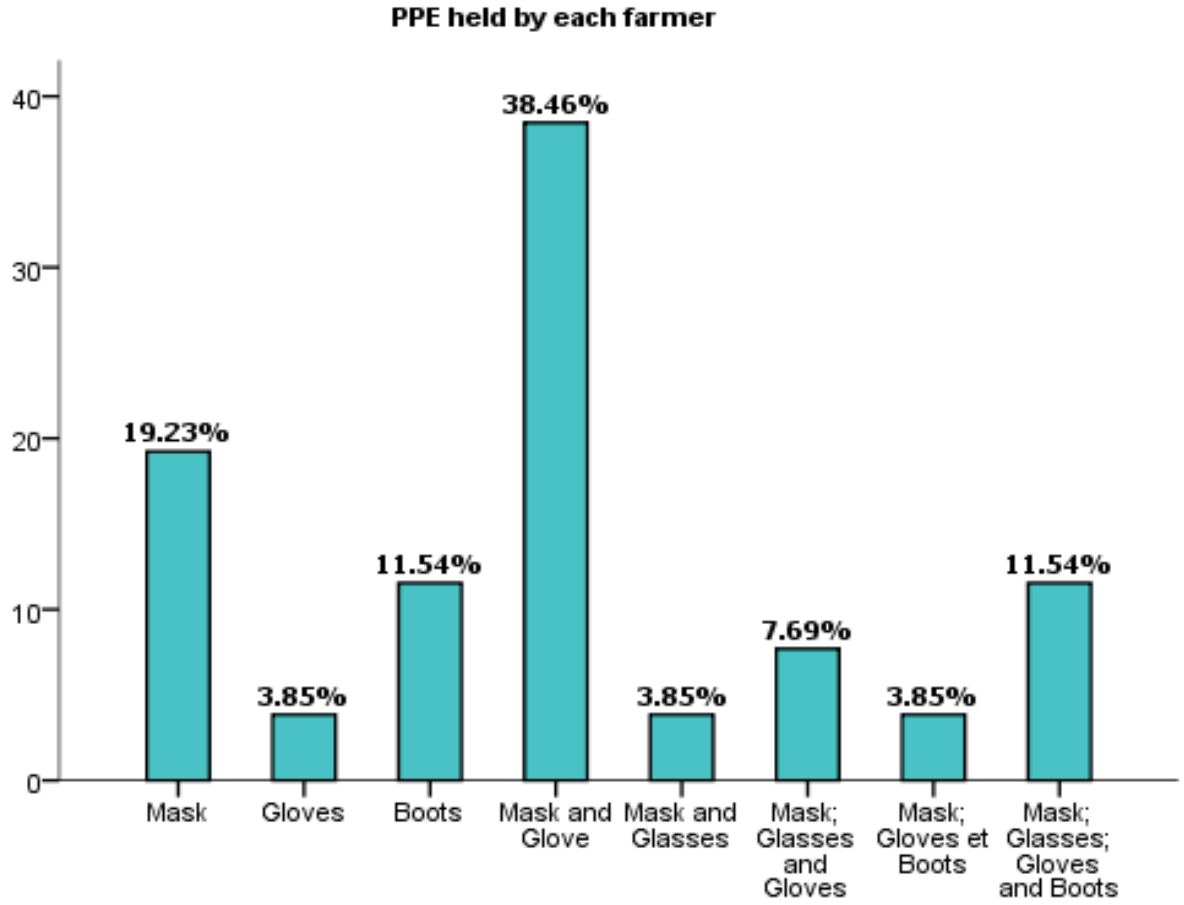

Figure 8: Farmer's education level

77.50% without PPE VS 22.50% with PPE

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EQUIPMENT RINSE WATER AND EMPTY PACKAGING SITE

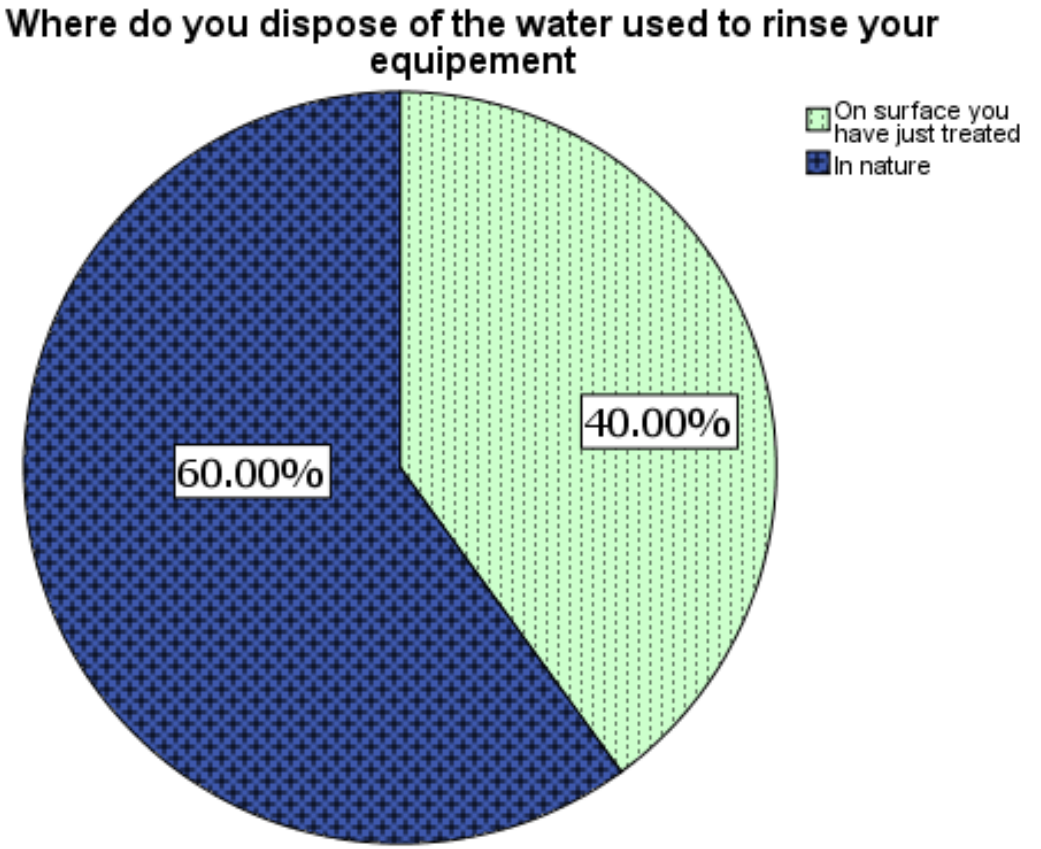

Figure 9: Rinse water discharge site

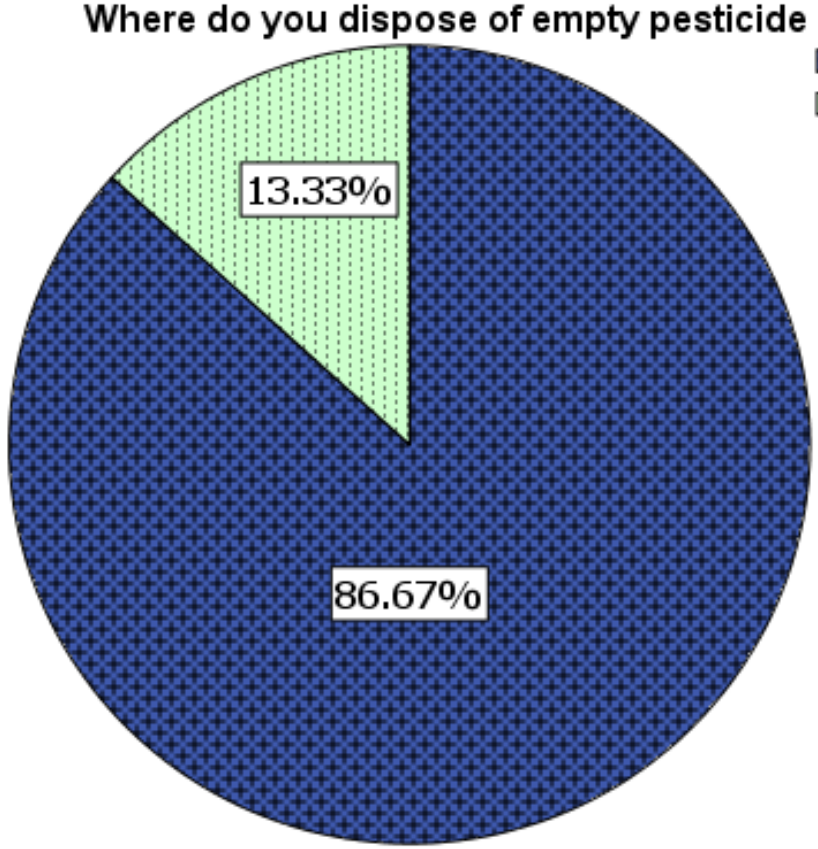

Figure 10: Empty packaging site

60% discharge in nature

40% on treated surface

86.67% dispose in nature

13.33% dispose at recycling centre

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OUTLOOK

The prospects for this project are :

1

Laboratory analysis of the waters of the Loka to determine the concentration of the different molecules of pesticides used by farmers in the area

2

Analysis of the fish to determine pesticide levels and whether or not it is fit to eat.

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