Pesticide Risk Reduction Programme (PPRP) – Ethiopia

Baseline study start-up meeting

Dr. ir. Joost Lahr

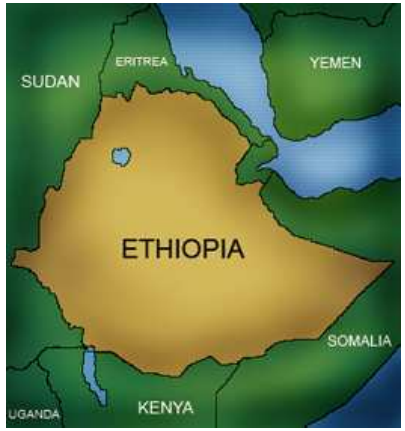
MoA

ALTERRA

Main objective of the impact study (WP-E)

To execute a study of the overall impact of the new (post) registration system in Ethiopia on:

- Annual average number of registered pesticides (including percentage of less toxic pesticides and safer alternatives registered).
- Pesticide use by farmers
- Capacity building of professionals
- Farmer knowledge
- Empty container management
- Environmental risk
- Risk to human health (dietary and human exposure)
- Knowledge of pesticide users (including retailers, applicators, farms, flower sector, households, large grain stores)



Baseline study a.s.a.p. + impact study 5-10 years later

Main activities of the baseline study (WP-E)

Activities:

1. Hold a general workshop (baseline study start-up meeting)
2. Conduct a study on registered pesticides

3. Investigate pesticide use by farmers & farmer knowledge
4. Assess environmental risk
5. Assess risk to human health
6. Evaluate capacity building of professionals
7. Investigate knowledge of pesticide users
8. Evaluation and reporting

3. Pesticide use by farmers & farmer knowledge

Goal:

To generate detailed information at farm level on pesticide use, farmer knowledge, empty container management in the various agro-systems.

Subactivities:

1) Research proposal, to define methodology.
2) To create/adapt an agro-ecological zoning system based on spatial data.
3) Develop proper methodology for farm surveys, considering farmer interviews to gather information on pesticide use, farmers knowledge, empty container management and information on food basket (if needed linked to WP B2-1 Human health and residue aspects).
4) Train local trainers, trainers will train local interviewers/enumerators.
5) Farm surveys, to describe agricultural practices concerning pesticide use in a quantitative way.

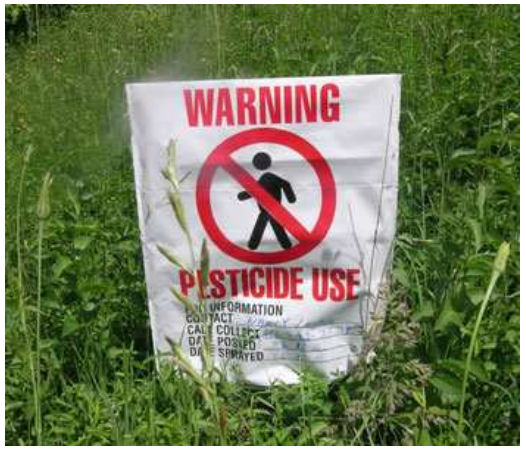
4. Environmental risk

Goal:

To estimate the environmental impact (soil, groundwater, bees, birds, etc.) of the pesticides used in Ethiopia for different agro-systems.

Subactivities:

1) Adapt PRIMET for Ethiopia (linked to WP B2-1 Environmental aspects of agrochemicals).
   Select/create/adapt a proper methodology to estimate the environmental impact of biopesticides (linked to WP B2-2 Environmental impact of biopesticides).
2) Run PRIMET and/or other models.
3) Data analysis and report.



5. Risk to human health

Goal:

To estimate the impact on human health of the pesticide used in Ethiopia.

Subactivities:

1) Dietary risk assessment of chemical pesticides considering local exposure of consumers through food and water intake (linked to WP B2-1 Human health and residue aspects).
2) Run model to estimate impact of chemical pesticides on consumer exposure.
3) Data analyses, chemical pesticides and consumer exposure.
4) Occupational health risk assessment, through handling of chemical pesticides during transport, storage and application (linked to WP B2-1 Human health and residue aspects).
5) Run model etc.

Same for biopesticides.

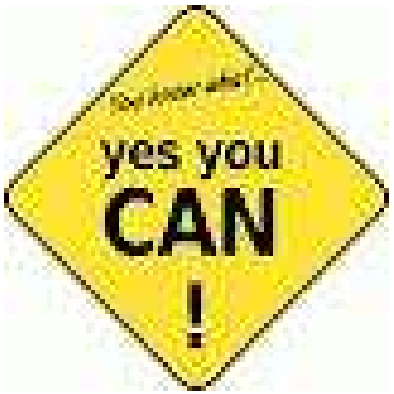
6. Capacity building of professionals

Goal:

To gather information on the knowledge of professionals (of different groups of experts).

Subactivities:

1) Develop/adapt survey and impact assessment methods regarding the knowledge of professionals that received training by the project.
2) Select expert groups.
3) Make questionnaires for each expert/profession group.
4) Train trainers / train interviewers.
5) Define how many people will be interviewed per expert group.
6) Conduct interviews.
7) Data analyses and report.



7. Knowledge of pesticide users

Goal:

To gather information on the knowledge of pesticide users (e.g. retailers and distributors and pesticide applicators).

Subactivities:

1) Develop/adapt survey and impact assessment methods regarding the knowledge of professionals that received training by the project.
2) Make questionnaires for each pesticide users group
3) Train interviewers
4) Define how many people will be interviewed per pesticide users group, (the assumption is to interview 20 individuals from flower sector, 10 from large scale farms and 20 from pesticide applicators and distributors).
5) Conduct interviews
6) Data analysis and report.

8. Evaluation and Reporting

Goal:

Compare results before and after the Project (impact vs. baseline study). In the (far) future?

Subactivities:

1) Workshop to develop evaluation criteria.
2) Compare results of Impact and baseline study and evaluate
3) Report
4) Workshop with relevant people to show impact of registration system on:
   - number of registered pesticides,
   - pesticide use by farmers,
   - capacity building of professionals
   - farmer knowledge
   - empty container management
   - environmental risk
   - risk on human health (dietary and human exposure)
   - knowledge of pesticide users (retailers and pesticide users)

Goals of this workshop

Goal:

To produce a study plan and methodologies for the baseline study!

Subactivities (according to project plan):

1) To introduce the objectives of baseline and impact assessment studies.
2) To decide on the target groups to be involved in the study.
3) Methodologies to be followed with regard to the baseline survey.

Stuff to decide

Issues:

1) Study design
2) Methodology
   - Questionnaires
   - Interviews
   - Models
   - Residue analyses?
   - Regions/crops
3) Training of trainers and interviewers
   - How?
   - Who?
   - When and where?
4) Execution
   - Who?
   - When and where?
5) Data analysis

Amesege'nallo‘, thank you!