

ENDURE IPM TRAINING GUIDE Sheet C2

CONTENTS & MODULES

IPM PRINCIPLE 2

Tools for pest monitoring

Date (17/11/2010)

WHAT	Pest monitoring is an element of Integrated Pest Management
	that allows the pest population density in fields to be
IS	estimated. For monitoring pest populations, different tools and
	systems have been developed.
WHY	The purpose of monitoring is to collect information on pest
	presence and density allowing professional users to make
	appropriate and timely decisions for managing pests.
	Monitoring helps to determine whether intervention is needed
	and if so what, where, when and how. The monitoring
	methodology or system therefore has a significant impact on
	the success of IPM.
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HOW	Monitoring methods and tools:
	► Regular and thorough visual observations in the fields
	► Various traps (colour cards, pheromone and other bait-
	based traps etc.)
	► The results of monitoring should be interpreted in context,
	with the results of field observation
	▶ Using or benefiting from scientifically sound early warning,
	forecasting and early diagnosis systems
	► Advice from professionally qualified advisers.
	Relevant information (meteorological pest density, disease
	incidence etc.) that can help farmers in their decision-making
	may originate from various sources, such as:
	► Competent authorities
	► Professional organisations
	► Advisory services
	► Professional users.
EXAMPLE	The case of western corn rootworm (WCR) offers a good
	example for monitoring. Adults can be detected with sensitive
	and highly attractive pheromone and floral bait-based traps
	established in the maize field. Visual plant checks during the
	period of adult activity gives additional information on the
	population density. Colour sticky cards can also be used for
	this purpose. Adult feeding (symptoms on maize leaves and
	silks) also add information to the above. Monitoring WCR
	population in several fields over a larger area gives a broad
	picture of WCR population levels in the region which should be
	accompanied by data from local fields. This offers mutual
	benefits for all farmers in the area.
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► Draft Guidance Document for establishing IPM principles
P Drait Guidance Document for establishing 1714 principles
(<u>http://www.endure-</u>
network.eu/about crop protection/european documents:
BIPRO 2009 reports)
▶ on the ENDURE Information Centre:
\rightarrow keywords: measure = decision support / control or
thresholds
▶ on the ENDURE website:
Western Corn Rootworm in Europe: Integrated Pest
Management is the only sustainable solution
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