

Argument A8	<h1>Environmental benefits of IPM</h1>
	Environmental

Date (03/11/2010)

WHAT IS	<p>The implementation of IPM has positive effects on the environment, mainly linked to the importance assigned in IPM to ecological infrastructures, which are not only protected, but actively planted and maintained, to the reduced use of pesticides and to the use of more specific and selective pest control measures. The most important environmental benefits of IPM are:</p> <ul style="list-style-type: none"> ▶ The reduction of the environmental risks associated to the use of pesticides, which include air, soil and surface and ground water pollution. ▶ The increase in the diversity of the fauna related to pest control (natural enemies). ▶ The increase in the diversity of general fauna. <p>These benefits will be more important is IPM is applied in medium-to-large scale programmes.</p>
WHY	<p>The environmental benefits of IPM will finally benefit the whole society. There is little information on their economic value, but there are some good examples. For example, in a study in the Philippines, the aggregate value of the environmental benefits for the five villages where an IPM programme was carried out was estimated at \$150,000 (US).</p>
HOW	<p>The quantitative estimation of environmental benefits is difficult, as most of them do not a market price and the environment is multi-dimensional, and usually requires medium-scale multi-year experiments. Furthermore, as their value is highly dependent on the people and the communities involved, this question is very open to discussion.</p> <p>Therefore begin the session by asking the participants about their perception on the value of environmental benefits and later show examples of these benefits. The examples may show the increase in natural enemies or general fauna in a plot or in an area, the reduction of ground water pollution, or the estimation of the economic value of the environmental benefits of IPM.</p>

SOURCES

- ▶ Cuyno, L.C.M.; Norton, G.W.; Rola, A. 2001 Economic analysis of environmental benefits of integrated pest management: a Philippine case study. *Agricultural Economics* 25: 227-233
- ▶ Rieux, R.; Simon, S.; Defrance, H. 1999. Role of hedgerows and ground cover management on arthropod populations in pear orchards. *Agriculture, Ecosystems and Environment* 73 (1999) 119±127