

 **O.35 - State of the art of control strategies for codling moth, apple scab and brown spot in Europe**

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ENDURE aims to reduce pesticide use in crop production; this activity has been divided in crop case studies. Pome fruits are among the case studies that have been selected. Codling moth, apple scab and brown spot are 3 key pests of pome fruit production throughout Europe, and they are responsible for most of the phytosanitary treatments applied to crops. Thus tasks in the pome fruit case study have been focused on them. One of the most important tasks of the case study was to make a survey of the state of the art of these 3 pests' control strategies in Europe. This survey was conducted at least in 5 European regions, Rhône Valley (France), The Netherlands, Emilia Romagna (Italy), Lake Constance (Switzerland and Germany), and Lleida (Spain); in some cases additional regions were surveyed. The survey was carried out by means of a questionnaire for each pest that was filled in by regional experts with close relationship with the growers. These questionnaires compiled information on monitoring, decision support systems, sanitation practices, use of environmentally friendly products, pesticide resistance management, cultural methods, emerging secondary pests, functional biodiversity, and bottlenecks; all considered basic elements to define a pest control strategy. The results of the survey are discussed especially regarding durability of the strategy, major control tools, important bottlenecks, and discrepancy and heterogeneity among regions.