



Theoretical Models and Empirical Measurement of the External Cost of Pesticides

PhD-course, Wageningen School of Social Sciences

WAGENINGEN UNIVERSITY

October 25-29, 2010

 **teampest** Theoretical Developments and Empirical Measurement of the External Costs of Pesticides

FP7: Grant agreement no.: 212120

Introduction:

Pesticides are used in agriculture to secure yields, to improve quality of food and to facilitate harvesting. However, their heavy use in agriculture resulted in pest resistance (pests are less susceptible to some pesticides), ground and surface water contamination (due to leaching and runoff respectively), as well as possible health problems on farmers (as a result of their exposure during the application of pesticides) and consumers. The EU has introduced several policies aiming at achieving a sustainable use of pesticides in European agriculture. Economic tools are needed to design and assess the impacts of socially optimal tax and levy schemes. Economists use a variety of methods for analyzing the impacts of pesticides on producer and consumer behaviour. This course aims at providing an overview of the frequently used quantitative methods and pays specific attention to the micro and macro economic foundations, linear programming, stochastic frontier analysis, experimental methods.

Intended results: At the end of this course, the participants will be able

- to apply different quantitative methods for analysing environmental policies in their research.
- To select an appropriate method for analysing a given environmental policy problem

Lecturers:

- to be determined -

Organizer:

The course is organised by the TEAMPEST consortium. Local organizer is Prof.dr.ir. Alfons Oude Lansink, Professor of Business Economics, Hollandseweg 1, building 201, NL-6706 KN Wageningen, room 6041, Tel +31-317-485194 Email: Alfons.oudelansink@wur.nl , Website <http://www.bec.wur.nl/UK/staff/OudeLansink/>

Target Group: Research Masters and PhD students, Postdocs and University Faculty, Researchers at institutes, specialists in business and government

Course duration: 5 full days. Lectures on theoretical background in mornings and computer-assisted problem solving in the afternoons

Group size: Minimum 10 participants, maximum 24 participants.

(The organisers may cancel the course 1 month in advance in case the number of registrations did not reach the minimum).

Language: English

Location: Wageningen University, Department of Social Sciences, Hollandseweg 1, Wageningen

Programme

Lectures/theory during the morning session and 'hands on' applications during the afternoon. Morning sessions are from 09.00 – 12.00. Afternoon sessions from 13.30-16.00. The first afternoon session (Monday 25 October) is a lecture.

Day	Morning lecture	Lecturers	Afternoon lectures	Lecturers
25-10	Introduction to the course and TEAMPEST project. Overview of EU policies on pesticides use and regulation	Mattas Nastis	Microeconomic foundations of producer behavior	Oude Lansink/Stefanou
26-10	Assessing the internal effects of pesticides at the farm level	Chambers- Tzouvelekas	Empirical (econometric) modeling of internal effects of pesticides ¹	Chambers/Tzouvelekas
27-10	Environmental effects induced by pesticide use	Surry/Collentine	Linear Programming Modelling of Pesticides Effects ¹	Surry/Collentine
28-10	Optimal taxation and regulation of pesticides at the farm level	Stefanou/Mamuneas/ Stengos	Working groups: Designing a Pesticides tax systems ²	Stefanou/Mamuneas/ Stengos
29-10	Consumer attitudes towards pesticides	Giraud/Combris	Case demonstration	Mishev

- 1) Computer practical in which students solve an empirical assignment
- 2) Working group in which groups of three students will design a pesticides taxation system for the EU. Final hour: presentation and discussion of outcomes by students

Prerequisite courses and recommended readings:

Students are assumed to be familiar with basic knowledge of micro economics, mathematical programming methods, statistics and econometrics. This course is based on a reader which will be made available at the start of the course.

Credits and Examination:

This is a 4-ECTS credit course, which will be finished by a short paper (about 10 pages). The paper should be handed in within six months and will be graded. Attendance and active participation to the course reward 1.5 ECTS.

Course fee (tentative):

- External participants: **€ 500**
- PhD students of WASS with an approved TSP: **€ 250**
- PhD students at one of the Universities participating in the CARERA consortium: **€ 250**
- PhD students from countries in Central and Eastern Europe **€ 250**

The course fee includes study and training materials, coffee / tea, lunches and a workshop dinner.

Registration Procedure:

Register via the website: <http://www.wass.wur.nl/UK/courses/registration/>

Deadline for registration is October 10, 2010. Please make sure you provide the most recent contact details so that in case of any changes you will be notified promptly. After your internet registration you will receive a short notification that your name has been registered. At least 2 weeks

before the course you will receive a confirmation about the location and the schedule. WASS will also send a bill to your address indicated in the registration form.

Please e-mail to Marcella.haan@wur.nl in case you have not received the second confirmation two weeks before the course.

Cancellations:

The participants can cancel their registration without any fee 1 month before the course starts. Cancellation fee of 100% applies if participant cancels the course less than 1 month prior to the course.

The organisers have a right to cancel the course not later than 1 month before the course starts in case the number of registrations did not reach the minimum.

The participants will be notified of any changes at their e-mail addresses.

Further Information

On course content: Alfons.Oudelansink@wur.nl

For details about the logistics, accommodation, registration, fees, study materials, etc. please contact Marcella Haan
Tel +31 317 484126
Marcella.haan@wur.nl

Further information on Wageningen School of Social Sciences and its educational activities:

<http://www.wass.wur.nl/UK/courses/>

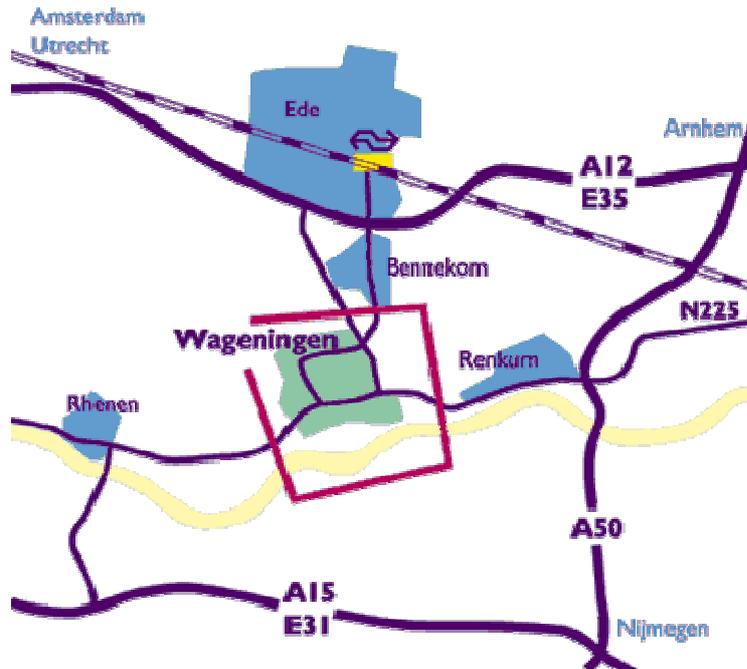
Useful information for participants from outside Wageningen

For more information about the accommodation at the Wageningen International Centre, go to <http://www.wicc-wir.nl>

From Schiphol Airport Amsterdam to Wageningen

At the Airport you can buy a train ticket in the baggage claim area. You will see the sign "Train tickets" near the exit. Then follow the signs 'Nederlandse Spoorwegen' (www.ns.nl) or 'Trains and busses' to the railway station. Purchase a one-way ticket to station Ede-Wageningen. There will be a train leaving every 30 minutes from Schiphol, directly to Ede-Wageningen. The train departs from platform 1 or 2 (look at the announcements).

For Dutch train connections use www.ns.nl, www.thalys.com, www.db.de



Wageningen has no railway station. This lack is fully compensated by accurate means of buses and taxis, as described next.

For information about tickets to some 1400 European destinations and to order them, call Teleservice NS Internationaal: +31 (0)900 92 96 (0.35 euro per minute). You can pay by credit card (EuroCard, MasterCard, VISA or American Express), or by remittance. [On-line booking](#) for NS trains (choose station Ede-Wageningen): pre-registration with NS electronic system is required. Prices are mentioned there as well.

From railway station Ede-Wageningen you can take a taxi (approx. 15 min.). Taxis leave at the north side of the station. The bus 83 (direction Wageningen) or 86 (direction Arnhem) can be also used. The buses are at the north side of the station. You have to purchase a bus "strippenkaart" at the railroad ticket office (in the bus itself the "strippenkaart" is more expensive). Those coming to the Wageningen International Centre have to get off the bus at the bus stop "Busstation". The WIR hotel is situated next to the bus terminal and the WICC hotel approximately 250 meters to the west.