

TAG National Training 2010
Take advantage of the Early Bird Discount;
book before 11th December
 (VAT rate increases to 17.5% on 1st January)

<u>County</u>	<u>Course location</u>	<u>Postcode</u>
Cambridgeshire	NIAB, Huntingdon Rd, Cambridge	CB3 0LE
Essex	RCCE, Threshelfords Business Park, Feering	CO5 9SE
Gloucestershire	TAG Office, Cirencester	GL7 7AH
Berkshire	Elm Farm Organic Research, Newbury	RG20 0HR
Kent	Weald of Kent, Maidstone Rd, Headcorn	TN27 9PT
Lincolnshire	Norton Lodge, Norton Disney	LN6 9JR
Darlington, Durham	Darlington RFC, Blackwell Meadows	DL1 5NR
Norfolk	TAG Office, Morley St Botolph	NR18 9DF
Bedfordshire	TAG Office, Silsoe Spray Unit	MK45 4HP
Warwickshire	The Falcon, Birmingham Rd, Hatton	CV35 7HA

What are the course titles this year?

Course Title

Understanding and managing nutrient requirement
 Cereal Diseases: maintaining control and enhancing performance
 Pesticide Applications – the best options for using a boom sprayer
 Environmental impact of Arable Farming – understanding the science behind the headlines
 Developing agronomic understanding

Course Leader

Ron Stobart
 Stuart Knight
 Paul Miller
 Jim Orson
 Nathan Morris

How many BASIS and NRoSO CPD points can I get?

<u>Course Title</u>	<u>NRoSO</u>	<u>BASIS</u>
Understanding and managing nutrient requirement	2	6
Cereal Diseases	2	6
Pesticide Applications	6	6
Environmental impact of Arable Farming	2	6
Developing agronomic understanding	2	6

How can I book my place?

The training course booking form is attached to this document and further information can be found on the TAG website (www.thearablegroup.com) or the NIAB website (www.niab.com)

Don't forget to enclose payment with your booking form to secure your place. Please send all correspondence to:
 The Arable Group, Manor Farm, Lower End, Daglingworth, Cirencester, Glos GL7 7AH (tel. 01285 652184).

Courses open to members of TAG and NIAB at a reduced rate and non-members at a standard rate.



Course details

Understanding and managing nutrient requirement

Course leaders; Ron Stobart and Neil Watson

It could be argued nutrient management has the single greatest impact on crop performance of any input. Effective management, however, is becoming increasingly challenging and perhaps somewhat confusing. We now not only face the challenges of economic optimisation but also the constraints of greater environmental demands and a higher legislative burden. Understanding and managing these parameters is key to getting the best performance on your farm. This training course, which has been brought together through a combination of TAG research agronomists (reviewing the latest research from both within TAG and across the industry) and TAG Consulting (providing strong and practical farm implementation of this research), will seek to help you deliver these goals to your own farm.

The course will cover a range of themes including;

- Optimising economic returns.
 - Updates on recent research and agronomic issues both in the UK and around Europe; this will include an assessment of the implications of financial tipping points and the independent TAG view on a range of approaches.
 - A look at the potential for precision farming; this topic is often discussed in relation to fertiliser usage but uptake and practical implementation is frequently seen to be lagging behind potential. What are the opportunities and are you missing out?
- Understanding the legislative implications and the wider impacts on farming systems.
 - Pollution and legislative issues will continue to lead many nutrient management discussions and these themes will be considered in the context of production aims.
 - In addition the course will look at some other areas of nutrient management; e.g. the value of straw incorporation, organic matter, cover crops, compost and bio-solids.

Cereal Diseases: maintaining control and enhancing performance

Course leaders; Stuart Knight and Ben Freer

This new course will examine in detail the main threats to our ability to control key cereal diseases in 2010 and beyond, and the opportunities that might be offered by new fungicide chemistry. The strengths and weakness of current options for wheat and barley will be updated, in the light of latest developments in resistance (including septoria, rhynchosporium and net blotch) and disease prevalence. Options to protect against emerging disease concerns such as Ramularia leaf spot in barley and Tan spot in wheat will be evaluated, and the full implications of recent changes to rust races and resistance ratings of wheat varieties will be discussed.

Pesticide Applications – the best options for using a boom sprayer

Course leaders; Paul Miller and Clare Butler-Ellis

An interactive workshop which will aim to answer the most commonly-asked application questions concerning boom sprayer set-up and operation. This half-day course will:

- Discuss the things you need to know to make the best nozzle choices;
- Consider the impact of nozzle selection on product efficacy and off-target contamination;
- Review the effect of variables such as boom height, nozzle pressure and forward speed on both efficacy and drift risk;
- Will use case studies to illustrate key points;
- Allow all participants to share their concerns, experiences and views.

Each workshop will be run by two members of the Silsoe Spray Applications Unit team and will encourage participants to discuss practical spraying issues in a targeted manner

The Environmental impact of Arable Farming – understanding the science behind the headlines

Course leaders – Jim Orson and Phil Humphrey

It is easy to be cynical about calls from environmentalists and governments to look after wildlife, reduce your carbon footprint and reduce or eradicate the use of pesticides. The reality is however that Agriculture needs to address these issues if it is to prosper. This course is for anyone with an interest in the science behind the rhetoric. It looks at what recently completed and on-going science projects are doing to help provide information and practical answers to these issues. The course will address four key areas as follows:-

1. **Energy Use in Agricultural Production**
What is the energy used to produce output such as a tonne of wheat?
How is energy use calculated and divided up between all the various input activities?
Can we reduce the energy used in crop production?
2. **Environmental Pollution from soils, pesticides and nutrients**
What are the most important routes of this pollution?
What technologies can be used to mitigate it?
What practices can be employed to mitigate it?
3. **Climate Change and the role of greenhouse gases**
Agriculture has been identified as a source of around 7% of greenhouse gas emissions.
What practices generate the most emissions?
What effect can altering management practices and adoption of new technology have?
4. **Biodiversity on Farms**
What has been learnt from science and existing environmental schemes in order to provide a general improvement in farmland as a wildlife habitat whilst maintaining food production?

Developing agronomic understanding

Course leader; Nathan Morris

Understanding the implications of key agronomic pressures such as pests or diseases is important to assist with decision making. These decisions tend to be guided by many factors including the latest equipment and techniques (e.g. precision farming) to optimise crop production and recent legislative pressure to ensure inputs are well targeted and minimise the risk to the environment. This course seeks to act as a broad refresher and skill update to ensure both farmers and other farm employees have up-to-date knowledge regarding a wide range of farm production related topics.

The course will cover a series of subjects including:

- Agronomic understanding
 - An update on key weed, pest and disease pressures including identification, yield loss and resistance pressures.
 - A look at crop nutrition requirements including forms of fertiliser, soil amendments (e.g. compost and biosolids) and crop responses to fertiliser.
 - An understanding of why key crop growth stages help with targeting inputs to maximise success.
- Production technology
 - Product application – nozzle selection can help to to maximise efficacy and minimise spray drift; the course will consider how choosing the correct nozzle can influence performance.
 - Careful soil management to ensure crops get off to a good start requires an understanding as to what makes a “healthy” soil. Choosing cultivation type and rotations can have a strong influence on system performance; the course will discuss TAG long-term cultivation projects that have generated a wealth of agronomic and financial data.
 - In addition the course will outline recent changes in legislation that will likely impact field operations on the farm.

Booking form for TAG Training courses 2010, Page 1

NIAB, Huntingdon Rd, Cambridge Cambs CB3 0LE			Delegate(s) names
Cereal Diseases	8 Feb	AM	
Managing nutrient requirement	8 Feb	PM	
Environmental Impact	2 Mar	AM	
Pesticide applications	2 Mar	PM	
Norton Lodge, Norton Disney, Lincoln LN6 9JR			Delegate(s) names
Managing nutrient requirement	9 Mar	AM	
Cereal Diseases	9 Mar	PM	
Pesticide applications	11 Mar	AM	
Dev agronomic understanding	11 Mar	PM	
TAG Office, Silsoe Spray Unit, Wrest Park, Silsoe, Bedford MK45 4HP			Delegate(s) names
Pesticide applications	5 Feb	AM	
Cereal Diseases	5 Feb	PM	
Environmental Impact	23 Feb	AM	
Pesticide applications	23 Feb	PM	
RCCE, Threshelfords Business Park, Feering, Essex CO5 9SE			Delegate(s) names
Environmental Impact	4 Feb	AM	
Dev agronomic understanding	4 Feb	PM	
Cereal Diseases	26 Feb	AM	
Managing nutrient requirement	26 Feb	PM	
TAG Office, Lower End, Daglingworth, Cirencester Glos GL7 7AH			Delegate(s) names
Dev agronomic understanding	25 Jan	AM	
Managing nutrient requirement	25 Jan	PM	
Cereal Diseases	4 Mar	AM	
Pesticide applications	4 Mar	PM	
Elm Farm Organic Research, Hamstead Marshall, Newbury, Berkshire RG20 0HR			Delegate(s) names
Cereal Diseases	25 Feb	AM	
Environmental Impact	25 Feb	PM	
The Falcon, Birmingham Rd, Hatton, Warwick CV35 7HA			Delegate(s) names
Environmental Impact	10 Mar	AM	
Cereal Diseases	10 Mar	PM	
TAG Office, Morley Business Park, Morley St Botolph, Norfolk NR18 9DF			Delegate(s) names
Dev agronomic understanding	19 Jan	AM	
Managing nutrient requirement	19 Jan	PM	
Darlington RFC, Blackwell Meadows, Grange Rd, Darlington DL1 5NR			Delegate(s) names
Managing nutrient requirement	5 Mar	AM	
Dev agronomic understanding	5 Mar	PM	
Weald of Kent, Maidstone Rd, Headcorn, Kent TN27 9PT			Delegate(s) names
Cereal Diseases	16 Feb	AM	
Environmental Impact	16 Feb	PM	

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Delegates address details:

Telephone number:

Mobile number:

Email address:

Member / Non member (please delete as appropriate)

Membership number (if known).....

Invoice Address if different from above

Course Costs

Members of TAG and NIAB

Number of courses	Price per course
1 course	£90 + VAT
2 or more courses	£80 + VAT each

An early bird discount of 2.5% can be deducted for applications received by the Cirencester office before 11th December (members only)

Non members

Number of courses	Price per course	Total price
1 course	£110 + VAT	£110 + VAT
2 courses	£105 + VAT	£210 + VAT
3 or more courses	£100 + VAT	£300 + VAT (for 3 courses) £400 + VAT (for 4 courses)

Please send payment with an application form, to secure a booking to: The Arable Group, Manor Farm Barn, Lower End, Daglingworth, Cirencester, Glos GL7 7AH

Venue directions will be sent to delegates with an agenda approx 7 – 10 days before each course.