

The UK Agroforestry Forum Newsletter

Number 3

May 2002

This is the third issue of the UK Agroforestry Forum Newsletter. The aim of the Newsletter is to circulate items of interest amongst Forum members. As well as the annual summary of silvopastoral and silvoarable network site data, we will be pleased to receive correspondence and news items.

The previous bulletin *Agroforestry Forum* has been amalgamated with *Agroforestry Systems*, published by Kluwer. It is available to members of the IUFRO agroforestry group and AFTA at a reduced annual subscription of £40 per annum: please go to <http://www.kluweronline.com/issn/0167-4366> for more information or to subscribe.

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The UK Agroforestry Forum Newsletter is an informal newsletter collated and produced by Fergus Sinclair at the School of Agricultural and Forest Sciences at the University of Wales, Bangor. To join the UK Agroforestry Forum mailing list and receive future copies of the Newsletter, please contact Alan Sibbald, Secretary, UK Agroforestry Forum at the following address: Alan Sibbald, Macaulay Land Use Research Institute, Craigiebuckler, Aberdeen, AB15 8QH; email a.r.sibbald@mluri.sari.ac.uk. For more information about the UK Agroforestry Forum, please visit <http://www.agroforestry.ac.uk>.

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UK Agroforestry Forum: a survey of agroforestry in the British Isles, 2001

Introduction

In 1990, Sibbald and Sinclair critically and thoroughly reviewed agroforestry research in progress in the UK at that time. Although a brief summary of agroforestry projects in the UK was compiled by Sheldrick and Auclair in 2000, the last comprehensive survey of agroforestry projects was published in 1991 (Anon, 1991). The 1991 survey covered brief details of 60 projects over half of which involved silvopastoral research, silvoarable research, below-ground interactions research, above-ground interactions research, and farm forestry research in the UK with the rest involving international research being carried out by agroforesters based at UK research institutes and universities. A review of the situation in 2001, 10 years later, was therefore commissioned which sought to establish the current status of those projects still active in 1991 and to record the existence of new experiments, new trials, new demonstration sites and commercial plantings made by farmers.

This review focuses on temperate agroforestry research, demonstration projects and commercial agroforestry plantings in the British Isles. International research and development involving tropical and arid zone agroforestry and farm forestry will be dealt with separately at a later date.

Methods

A report form was prepared containing a number of fields (Table 1). The form was distributed to all known owners or managers of experiments, trials, demonstrations or commercial plantings of agroforestry in the British Isles. The completed reports, on which this review is based, are appended. They are sorted by country in the British Isles - England, Wales, Scotland, and Northern Ireland - and, within each set, they are sorted by the date on the report and then numbered consecutively.

Results

The 1991 and current situation at May 2001 are summarised in Tables 2 and 3.

Generic type: silvoarable or silvopastoral

When the reports are sorted by country by far the greatest number (60%) are in England. England, which has the greatest area and proportion of arable land, has almost twice as many silvoarable sites as silvopastoral ones. In contrast in Wales, where more than 80% of the agricultural area is grassland, there is only one silvoarable site out of five reports. This is understandable as it is unlikely that silvoarable agroforestry would be adopted as a major land-use system in Wales. In Scotland all sites are silvopastoral. In Northern Ireland only one of the nine sites is silvoarable. On the basis of our survey, there is currently no agroforestry in the Republic of Ireland, although it is planned to plant a site at Johnstown Castle with silvopastoral agroforestry (with oak as the tree species) in spring 2002.

Type: experimental, demonstration or commercial planting

In 1991 in England there were 12 experimental sites and five trial sites but only one demonstration site (England #23 - by 2001 this had been changed to commercial use) and no commercial plantings. By 2001 there were five new trials, two additional demonstration projects, two commercial plantings and two classified as demonstration and commercial planting (England #21, 22). In contrast only one experiment has been established since 1991, though that one (England #18) is significant in that it is the National Silvoarable Agroforestry Network experiment with three sites (as they are all in England, they have been listed in one report).

In 1991 in Wales there were three sites, one an experiment, one a demonstration site, the third was an experiment which has since been converted into a demonstration site. By 2001 there was one additional demonstration site and one new experiment.

In 1991 in Scotland there were three experiments and one combined experiment and demonstration site. By 2001 there was one additional combined experiment/demonstration/commercial planting.

In 1991 in Northern Ireland there was one experiment and one combined experiment and demonstration site. By 2001 there were three new demonstration sites and one new combined experiment/demonstration and two new trial/demonstrations.

Current status: active, maintained, terminated or abandoned

Projects/sites existing in June 1991

In England of the 18 sites still extant in 1991, 9 are reported to be in active use in 2001, four are being maintained in 2001, three have been abandoned and two have been terminated in the intervening period.

In Wales, there are three sites still extant of which only one, the National Trust demonstration site (Wales #4) was still active in 2001. Of the other two, which are only being maintained, one (Wales #5) has been converted from a dual experimental/ demonstration site into a sole demonstration site.

In Scotland of four sites still extant in 1991, one is in active use in 2001, two are being maintained in 2001 and one has been terminated and abandoned in the intervening period.

In Northern Ireland, of the three sites still extant in 1991, two remain in active use and one has been abandoned.

New projects/sites since June 1991

In England, Wales and Scotland 12, 2 and 1 new projects respectively have been started since June 1991 and all are still active in May 2001. In Northern Ireland 6 projects have been started since June 1991 of which one, a demonstration site, has now been put on a maintenance only basis.

Table 1. The report form showing the set of items/properties of the agroforestry being reported with explanations or definitions of the response required where these are not self-evident.

Do not exceed one A4 page please

Survey of Agroforestry in England 2001: Progress Report x
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No.	Item / Property	Response
1.	Name of project / site	<i>Title (official or otherwise)</i>
2.	Location	Where it is
3.	Owner	Who owns it
4.	Start date	
5.	End date	
6.	Type	Leave blank
a)	<i>Experiment</i>	Tick or blank. An experiment must test a scientific null hypothesis by measurement, with replicated treatments including one or more control treatments.
b)	<i>Trial</i>	Tick or blank. A trial is a test but not of a scientific hypothesis. It usually includes measurements but may be unreplicated, and often lacks control treatments.
c)	<i>Demonstration</i>	Tick or blank. A demonstration must show potential users (via open days) a system, which has passed the experimental stage. It should be managed commercially. It could include illustrative biological measurements and/or financial and management assessments.
d)	<i>Commercial planting</i>	Tick or blank. A system planted solely for commercial reasons.
7.	Status if still extant	Leave blank
a)	<i>In active use</i>	Tick or blank
b)	<i>Maintained (but irregular or no data collection)</i>	Tick or blank
c)	<i>Terminated</i>	Tick or blank
d)	<i>Abandoned</i>	Tick or blank
8.	Tree species	
9.	Cropping regime	
10.	Pastoral regime	
11.	Most recent report in non-refereed literature	For example newspaper, magazine or pamphlet, or web site
12.	Most recent report in the refereed indexed literature	Must be locatable in a National Library catalogue or International web-based database e.g. Chemical Abstracts, Biological Abstracts, CAB abstracts or ISI Web of Science
13.	Name of contact	Who to find out more from (include email address)
14.	Name of recorder	Who filled in this form
15.	Date	Date the form was filled in
16.	Any other relevant details	

Table 2. The type and status of agroforestry projects in the British Isles in 1991 and 2001.

	Country ¹					Total
	England	Scotland	Wales	Northern Ireland	Republic of Ireland	
Number of reports	30	5	5	9	0	49
Generic type ²						
Silvoarable	20		1	1		22
Silvopastoral	12	5	4	8		29
Type existing in 1991						
Experiment	12	4	2	2		20
Trial	5					5
Demonstration	1	1	2	1		5
Commercial planting						
Current status of projects existing in 1991						
a) In active use	9	1	1	2		13
b) Maintained	4	2	2			8
c) Terminated	2	1				3
d) Abandoned	3	1		1		5
Type new since 1991						
Experiment	1	1	1	1		4
Trial	5			2		7
Demonstration	4	1	1	6		12
Commercial planting	4	1				5
Current status of projects new since 1991						
a) In active use	12	1	2	5		20
b) Maintained				1		1
c) Terminated						
d) Abandoned						
Output since 1991						
a) published in indexed journals or books ³	13	5	2	2		22
b) published in non-refereed literature	8	4	2	2		16
c) only published in b)	4			1		5
d) Not published	13		3	6		22
e) ISI Web of Science	3	4	2	1		10

Notes:

¹ Except for Ireland, "Country" is used in the British sense. For the rest of the world, the four countries would be provinces or states, as they have no country status in world organisations like the EU or UN.

² Numbers may exceed the total number of reports if, for example, a silvoarable site has been converted to silvopastoral during its lifetime.

³ The journal should be listed in ISI's Web of Science. The book should be an edited volume or an authored book. The listed reference must be accessible to readers of this document by Internet search.

Published output since 1991

Of the 49 reported projects, 27 (55%) have published reports either in the non-indexed or indexed literature – in England 17 out of 30, Wales 2 out of 5, Scotland 5 out of 5 and Northern Ireland 3 out of 9; 22 projects (45%) have not been reported at all. Eleven projects have been reported in both literature categories – 4 in England, 2 in Wales, 4 in Scotland and 1 in Northern Ireland. Of the 22 projects that have published in the indexed literature, just under half (10 or 45%) have published in journals listed by ISI's Web of Science.

Discussion

The census

Our review of the situation in 2001, 10 years after the last comprehensive review, reveals that some experiments are still active, but many have been terminated, abandoned, or placed on a maintenance basis with no data recording. New demonstration sites have been established, commercial plantings made by farmers and some new experiments started. A number of agroforesters have moved to other areas of research, retired or have been made redundant as a result of decisions made by policy makers.

The review reveals an impressive amount of past and continuing activity. However there has been a reduction in the number of active projects in all countries except Northern Ireland. In particular the National Silvopastoral Network sites in all countries, except Northern Ireland, are now unfunded and inactive but are being maintained. In the aftermath of the current Foot and Mouth epidemic, which may well force a reassessment of the way that land is used in the UK, this may in retrospect prove to have been unwise. Livestock farmers in particular will need help to recover from the traumatic experience and many may look to alternative, less intensive, multifunctional land-use systems, such as silvopastoral agroforestry which would enable them to restock at lower rates while developing other methods of generating income. The contrast between attitudes to agroforestry in the UK and France is quite striking and a similar review of agroforestry in France would be most instructive.

The lack of new experiments is regrettable. It would suggest that the understanding of temperate agroforestry is complete. This cannot be true because no experiment has completed one full cycle i.e. been carried through to the first harvest of trees. In fact it reflects the policy of short term (3-year project) funding. On the other hand there is no mechanism for retaining nationally important experiments, even on a maintenance basis, for measurements on a regular, though not necessarily annual, basis. A policy change which allowed long-term funding would recognise that land-use systems last more than three years. With limited funding it may be that priority should be given to retaining existing, well designed experiments rather than starting new ones. There are no substitutes for good scientific experiments to establish a good knowledge base. Experiences of technology transfer have shown the need for further research to address key issues.

Demonstration sites

The most obvious and encouraging change since 1991 is the increase in the number of demonstration sites.

However, the question arises from the results of this survey as to what constitutes a demonstration site. The EU requirements for eligibility of projects for funding, as demonstration projects may be a good starting point. In its "Guide for Proposers" (European Commission, 2000), demonstration projects are defined as "projects designed to prove the viability of new technologies offering potential economic advantage but which cannot be commercialised directly." In other words they concern the viability of technologies already developed rather than the development of them. A demonstration site should be clearly labelled in the field. There should be printed handouts describing the objectives, the design philosophy, the management procedures and the economic outcomes. It should have organised visitor days every several years supported by media releases in newspapers, trade, industry, professional and scientific publications, and on radio and television. The demonstrations should not be experiments or trials, the technology being judged to be mature enough to justify a demonstration.

Nevertheless claims of advantages of systems should be substantiated by verifiable data i.e. relevant data that should be stored in a public archive or published. These data could be time and motion data, yield of crops or animals, environmental benefits, and financial data. A prerequisite for any demonstration site is that measurements must be taken and made available to all interested parties. Accessible written protocols should be available describing design, establishment and management procedures. Interactive collaboration should exist with extension workers.

We know that demonstration sites in Northern Ireland meet most if not all of the above criteria. Proponents of tree planting on farms in the rest of the UK would do well to follow the Northern Ireland example. In doing so, the chances of the acceptance of agroforestry as a suitable system of land management in our temperate maritime climate will be increased.

Published output

At first sight the publication record of the reported experiments and demonstrations seems unimpressive. The survey was not concerned, however, with the complete publication record for a particular project, but rather with providing readers with a report with a single entry into the body of published work on that project. Nevertheless for almost half of the projects there are no publications of any kind in the public domain. Of course some projects have not been in existence for long enough to generate publications, but a number were already in existence in June 1991. We question the value of the work to the scientific body of knowledge of the reported systems when they have not been subjected to the scrutiny of peer review through publication.

Furthermore if the current criteria for research excellence of HEFC (the UK Higher Education Funding Council) are referred to, then the publication record of this body of work is singularly unimpressive. The criteria are that the research should be published in journals listed in the ISI Web of Science i.e. they should be primary refereed journals and not un-refereed conference proceedings or reports. There are ten projects citing such publications.

Agroforestry in the British Isles 2001

For demonstration sites, publication in journals listed in ISI Web of Science, though it would be valuable, is of less importance. The target audience for material from demonstration sites should be the farming community, people in government agencies and private consultancies involved in technology transfer through professional publications, the popular press and other media. In this respect access to "ISI Web of Science" journals is often restricted to privileged or specialist groups and is not readily available to the farming community.

Incoll, L.D.¹, Rogers, D.G.², Clements, R.O.³, Newman, S.M.⁴, Beaton, A.⁵, Burgess, P.J.⁶, Acworth, W.F.⁷, Wolfe, M.S.⁸, Russell, K.⁹, Jones, M.¹⁰, Sinclair, F.L.¹⁰, Teklehaimanot, Z.¹⁰, Jones, B.L.¹¹, Watson, C.A.¹², Sibbald, A.R.¹³, Hulbert, I.A.R.¹⁴, and J.H. McAdam¹⁵.

¹ School of Biology, University of Leeds, Leeds LS2 9JT

² TSU South, Forestry Commission, Research Office, Bullers Hill, Kennford, Exeter, Devon, EX6 7XR

³ Institute of Grassland and Environmental Research, North Wyke, Okehampton, EX20 2SB

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⁵ Consultant – Poplars & Agroforestry, Pot Common, Red House Lane, Elstead GU10 6DS

⁶ Cranfield University, Silsoe, Bedford MK45 4DT

⁷ Little Hidden Farm, Hungerford RG17 0PN

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¹¹ Forest Research, Cefn Gethiniog, Talybont-on-Usk, Brecon LD3 7YN

¹² SAC, Craibstone Estate, Aberdeen AB21 9YA

¹³ Macaulay Land Use Research Institute, Craigiebuckler, Aberdeen AB15 8QH

¹⁴ SAC, Hill and Mountain Research Centre, Kirkton, Crianlarich FK20 8RU

¹⁵ Applied Plant Science Division, Department of Agriculture and Rural Development, Newforge Lane, Belfast BT9 5PX

References

Anon (1991) Agroforestry research in progress. *Agroforestry in the UK*, June 1991, Volume 2, Number 2, pp 4-8.

European Commission (2000) *The Fifth Framework Programme 1998-2002. Quality of Life and Management of Living Resources*. Guide for Proposers. Part 1. 3rd Edition, November 2000. A_PG1_EN_2001. p. 4.

Sheldrick, R. and Auclair, D. (2000) Origins of agroforestry and recent history in the UK. In *Agroforestry in the UK*. (eds. M. Hislop and J. Claridge) Forestry Commission Bulletin 122. Edinburgh: Forestry Commission. pp 7-16.

Sibbald, A.R. and Sinclair, F.L. (1990) A review of agroforestry research in progress in the UK. *Agroforestry Abstracts*, Volume 3, Number 4, pp 149-164.

Table 3. Summaries of the responses for each country a) England, b) Wales, c) Scotland and d) Northern Ireland. For footnotes 2 and 3 see Table 2.

a)	ENGLAND	
	Report number	Total
Number of reports		30
Generic type²		
Silvoarable	1,2, 8,9,10,11,12,13, 15, 17,18,19,20, 22, 25,26,27,28,29,30	20
Silvopastoral	2,3,4,5,6,7, 14, 16,17, 21, 23,24	12
Type in 1991		
Experiment	1, 6, 8,9,10,11,12,13,14,15,16,17,	12
Trial	2,3,4,5, 7	5
Demonstration	23,	1
Commercial planting		
Current status of projects existing in 1991		
a) In active use	8,9, 11,12,13,14,15,16,17,	9
b) Maintained	1, 5,6, 23,	4
c) Terminated	2, 4	2
d) Abandoned	3, 7, 10,	3
Type new since 1991		
Experiment	18,	1
Trial	25,26,27,28,29,	5
Demonstration	21,22, 24,	4
Commercial planting	30 19,20,21,22,	4
Current status of projects new since 1991		
a) In active use	18,19,20,21,22, 24, 25,26,27,28,29,30	12
b) Maintained		
c) Terminated		
d) Abandoned		
Output since 1991		
a) Published in indexed journals or books ³	1, 6, 8,9,10,11, 14, 16,17,18,19, 21,22,	13
b) Most recent report in the non-refereed literature	1,2,3,4,5,6, 18, 21,	8
c) Only published in b)	2,3,4,5,	4
d) Not published	7, 12,13, 15, 20 23,24 25,26,27,28,29,30	13
e) ISI Web of Science	1, 6, 18,	3

Table 3 (continued)

b)	WALES	
	Report number	Total
Number of reports		5
Generic type²		
Silvoarable	2,	1
Silvopastoral	1, 3,4,5	4
Type in 1991		
Experiment Trial	1, 5	2
Demonstration Commercial planting	4,5	2
Current status of projects existing in 1991		
a) In active use	4,	1
b) Maintained	1, 5	2
c) Terminated		
d) Abandoned		
Type new since 1991		
Experiment Trial	3,	1
Demonstration Commercial planting	2,	1
Current status of projects new since 1991		
a) In active use	2,3,	2
b) Maintained		
c) Terminated		
d) Abandoned		
Output since 1991		
a) Published in indexed journals or books ³	1, 3,	2
b) Most recent report in the non-refereed literature	1, 3,	2
c) Only published in b)		
d) Not published	2, 4,5	3
e) ISI Web of Science	1 3	2

Table 3 (continued)

c)	SCOTLAND	
	Report number	Total
Number of reports		5
Generic type ²		
Silvoarable		
Silvopastoral	1,2,3,4,5	5
Type in 1991		
Experiment	1,2, 4,5	4
Trial		
Demonstration	1	1
Commercial planting		
Current status of projects existing in 1991		
a) In active use	1,	1
b) Maintained	2, 4,	2
c) Terminated	5	1
d) Abandoned	5	1
Type new since 1991		
Experiment	3,	1
Trial		
Demonstration	3,	1
Commercial planting	3,	1
Current status of projects new since 1991		
a) In active use	3,	1
b) Maintained		
c) Terminated		
d) Abandoned		
Output since 1991		
a) Published in indexed journals or books ³	1,2,3,4,5	5
b) Most recent report in the non-refereed literature	1,2, 4,5	4
c) Only published in b)		
d) Not published		
e) ISI Web of Science	1,2, 4,5	4

Table 3 (continued)

d)	NORTHERN IRELAND	
	Report number	Total
Number of reports		9
Generic type ²		
Silvoarable	5	1
Silvopastoral	1,2,3,4, 6,7,8,9,	8
Type in 1991		
Experiment	2, 4,	2
Trial		
Demonstration	4,	1
Commercial planting		
Current status of projects existing in 1991		
a) In active use	2, 4,	2
b) Maintained		
c) Terminated		
d) Abandoned	9	1
Type new since 1991		
Experiment	6,	1
Trial	3, 5	2
Demonstration	1, 3, 5,6,7,8,	6
Commercial planting		
Current status of projects new since 1991		
a) In active use	1, 3, 5,6, 8,	5
b) Maintained	7,	1
c) Terminated		
d) Abandoned		
Output since 1991		
a) Published in indexed journals or books ³	4, 9,	2
b) Most recent report in the non-refereed literature	3, 9,	2
c) Only published in b)	3,	1
d) Not published	1,2, 5,6,7,8	6
e) ISI Web of Science	4,	1

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Note: The full addresses of the contacts are at the start of the accompanying paper.

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Temperate silvoarable agroforestry with quality hardwood timber species</i>
2.	Location	Leeds University Farms, Headley Hall Farm, Tadcaster LS24 9NT, West Yorkshire
3.	Owner	School of Biology, University of Leeds
4.	Start date	1988 (trees planted February-March 1998)
5.	End date	Still in use
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Maintained (but irregular or no data collection)</i>	✓ Trees measured in 2001, all girths, heights of tree row trees only, three blocks in set-aside, one block sown as a demonstration for the annual meeting of Forum, June 2001. Last previous measurements of trees in 1996, last measured crop 1997.
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Ash, cherry, sycamore, walnut
9.	Cropping regime	Combinable crops: small grain cereals and grain legumes
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	<i>UK Agroforestry Forum Newsletter</i> Number 1, December 2000, pp 9-12.
12.	Most recent report in the refereed indexed scientific literature	Griffiths, J., Phillips, D.S., Compton, S.G., Wright, C. and Incoll, L.D. (1998) Slug number and slug damage in a silvoarable agroforestry landscape. <i>Journal of Applied Ecology</i> 35 , 252-260.
13.	Name of contact	Dr L.D. Incoll (l.d.incoll@leeds.ac.uk)
14.	Name of recorder	L.D. Incoll
15.	Date	5 th April 2001
16.	Any other relevant details	

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No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>A comparison of 7 new poplar clones from Belgium.</i>
2.	Location	Long Ashton Research Station, Long Ashton, Bristol, BS18 9AF
3.	Owner	Long Ashton Research Station
4.	Start date	1988, planted in June (rooted, potted sets).
5.	End date	1993
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	
	b) <i>Maintained (but irregular or data collection)</i>	
	c) <i>Terminated</i>	✓ Trees grew 'too' fast and became unstable. All trees and tree shelters removed in October 1993.
	d) <i>Abandoned</i>	
8.	Tree species	Poplar
9.	Cropping regime	
10.	Pastoral regime	
11.	Most recent report in the non-refereed literature	Rogers, D.G. and Beaton, A. (1992) The comparison of seven new poplar clones in an agroforestry situation and to determine their value for sawlog and veneer log production. <i>Agroforestry Forum</i> July 1992, Volume 3, Number 2, pp 10-11.
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Mr D.G. Rogers (dave.rogers@forestry.gsi.gov.uk)
14.	Name of recorder	D.G. Rogers
15.	Date	5 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 3

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Trial of species and herbicides in agroforestry</i>
2.	Location	Long Ashton Research Station, Long Ashton, Bristol, BS18 9AF
3.	Owner	Long Ashton Research Station
4.	Start date	1987, Planted in May
5.	End date	1992
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	Still classed as 'open'. Some trees still remain but the experiment has taken a hammering from the cattle that grazed the field.
	b) <i>Maintained (but irregular or data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	✓ Last measured in 1992 for height and survival.
8.	Tree species	Ash, cherry, sycamore, walnut, pear, southern beech, poplar, apple, oak, hybrid larch, Corsican pine.
9.	Cropping regime	
10.	Pastoral regime	
11.	Most recent report in the non-refereed literature	Rogers, D.G., Smith, N.A. and Clay, D. (1992) Trial of species and herbicides in agroforestry. <i>Agroforestry Forum</i> July 1992, Volume 3, Number 2, p 8.
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Mr D.G. Rogers (dave.rogers@forestry.gsi.gov.uk)
14.	Name of recorder	D.G. Rogers
15.	Date	5 th April 2001
16.	Any other relevant details	As well as 5 herbicide treatments, this experiment also compared 2 types of tree protection. Wire netting up to 2 m supported by a stake and 2-m Tubex tree shelters with barbed wire wrapped around.

Survey of Agroforestry in England, 2001: Progress Report 4

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvopastoral management trial</i>
2.	Location	Liscombe EHF, Dulverton, Somerset, TA22 9PZ
3.	Owner	Agricultural Development & Advisory Service
4.	Start date	1990, Planted in April 1991.
5.	End date	1993
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	
	b) <i>Maintained (but irregular or data collection)</i>	
	c) <i>Terminated</i>	✓ Liscombe EHF closed and the new owner removed all the trees and shelters.
	d) <i>Abandoned</i>	
8.	Tree species	Ash, cherry, sycamore, oak, hybrid larch.
9.	Cropping regime	
10.	Pastoral regime	
11.	Most recent report in the non-refereed literature	Done, D.L. and Rogers, D.G. (1992) Management of a silvopastoral system. <i>Agroforestry Forum</i> July 1992, Volume 3, Number 2, pp 11-12.
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Mr D.G. Rogers (dave.rogers@forestry.gsi.gov.uk)
14.	Name of recorder	D.G. Rogers
15.	Date	5 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 4

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvopastoral management trial</i>
2.	Location	Liscombe EHF, Dulverton, Somerset, TA22 9PZ
3.	Owner	Agricultural Development & Advisory Service
4.	Start date	1990, Planted in April 1991.
5.	End date	1993
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	
	b) <i>Maintained (but irregular or data collection)</i>	
	c) <i>Terminated</i>	✓ Liscombe EHF closed and the new owner removed all the trees and shelters.
	d) <i>Abandoned</i>	
8.	Tree species	Ash, cherry, sycamore, oak, hybrid larch.
9.	Cropping regime	
10.	Pastoral regime	
11.	Most recent report in the non-refereed literature	Done, D.L. and Rogers, D.G. (1992) Management of a silvopastoral system. <i>Agroforestry Forum</i> July 1992, Volume 3, Number 2, pp 11-12.
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Mr D.G. Rogers (dave.rogers@forestry.gsi.gov.uk)
14.	Name of recorder	D.G. Rogers
15.	Date	5 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 5

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Cattle protection trial</i>
2.	Location	North Wyke, Okehampton EX20 2SB, Devon
3.	Owner	Institute of Grassland & Environmental Research
4.	Start date	1987, Trees planted in April
5.	End date	Still 'open'
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	✓ Still classed as 'open' but no data being collected nor is it being maintained. Some examples of protection still remaining and doing their job. Last assessments taken in 1989, damage score 1= protection gone to 5= protection undamaged.
	d) <i>Abandoned</i>	
8.	Tree species	Ash
9.	Cropping regime	
10.	Pastoral regime	
11.	Most recent report in the non-refereed literature	Rogers, D.G., Smith, N.A., Sheldrick, R. and Laws, J. (1992) The protection of individual trees against cattle. <i>Agroforestry Forum</i> July 1992, Volume 3, Number 2, pp 8-10.
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Mr D.G. Rogers (dave.rogers@forestry.gsi.gov.uk)
14.	Name of recorder	D.G. Rogers
15.	Date	5 th April 2001
16.	Any other relevant details	A 'sister' experiment was established at Long Ashton Research Station.

Survey of Agroforestry in England, 2001: Progress Report 6

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvopastoral National Network Experiment: North Wyke. Productivity of maturing silvopastoral systems</i>
2.	Location	North Wyke, Okehampton EX20 2SB, Devon
3.	Owner	Institute of Grassland and Environmental Research
4.	Start date	Autumn 1987
5.	End date	Still in use
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Maintained (but irregular or no data collection)</i>	✓ Trees measured 1987-2001, also animal (sheep) output.
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Ash
9.	Cropping regime	Not applicable
10.	Pastoral regime	160 kg N ha ⁻¹ . Grazed by ewes and lambs
11.	Most recent report in the non-refereed literature	Sibbald, A.R. and Dalziel, A.J.I. (2000) <i>Silvopastoral National Network Experiment - Annual Report 1999. UK Agroforestry Forum Newsletter</i> Number 1, December 2000, pp 2-6.
12.	Most recent report in the refereed indexed literature	Sibbald, A.R., Eason, W.R., McAdam, J. H. and Hislop, A.M. (2001) The establishment phase of a silvopastoral national network experiment in the UK. <i>Agroforestry Systems</i> 53 , 39-53.
13.	Name of contact	Dr R.O. Clements (bob.clements@bbsrc.ac.uk)
14.	Name of recorder	R.O. Clements
15.	Date	5 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 7

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Tessellated trial</i>
2.	Location	North Wyke, Okehampton EX20 2SB, Devon
3.	Owner	Institute of Grassland and Environmental Research
4.	Start date	Autumn 1987?
5.	End date	1992
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓ Range of tree species (6?) grown in hexagonal arrangement to investigate effect of adjacent tree species on a single central tree.
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	✓
8.	Tree species	Ash, cherry, sycamore, walnut and others
9.	Cropping regime	Not applicable
10.	Pastoral regime	Grazed by ewes and lambs
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed scientific literature	None
13.	Name of contact	Dr R.O. Clements (bob.clements@bbsrc.ac.uk)
14.	Name of recorder	R.O. Clements
15.	Date	5 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 8

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Wolverton: silvoarable agroforestry with poplar for biomass</i>
2.	Location	Manor Farm, Milton Keynes
3.	Owner	Confidential
4.	Start date	1988
5.	End date	2006
6.	Type	
a)	<i>Experiment</i>	✓ Annual crop and tree measurements
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Poplar cvs Boelare and Beupré
9.	Cropping regime	Standard arable rotation (spring)
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Newman, S.M., Acworth, J.M., and Hutton, N. (1991) <i>Agroforestry in the UK</i> March 1991, Volume 2, Number 1, pp 10-12.
12.	Most recent report in the refereed indexed literature	Incoll, L.D. and Newman, S.M. (2000) Arable crops in agroforestry systems. In " <i>Agroforestry in the UK</i> ". Forestry Commission Bulletin 122. (eds M. Hislop and J. Claridge). Edinburgh: Forestry Commission. pp 71-80.
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M. Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is run by farmers and follows a farmer centred evaluation protocol

Survey of Agroforestry in England, 2001: Progress Report 9

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Wolverton: silvoarable agroforestry with poplar for timber</i>
2.	Location	Manor Farm, Milton Keynes
3.	Owner	Confidential
4.	Start date	1988
5.	End date	2006
6.	Type	
a)	<i>Experiment</i>	✓ Annual crop and tree measurements
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Poplar cvs Scot Pauley and Fritzi Pauley
9.	Cropping regime	Standard arable rotation (spring)
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Newman, S.M., Acworth, J.M., and Hutton, N. (1991) <i>Agroforestry in the UK</i> . March 1991, Volume 2, Number 1, pp. 10-12.
12.	Most recent report in the refereed indexed literature	Incoll, L.D. and Newman, S.M. (2000) Arable crops in agroforestry systems. In " <i>Agroforestry in the UK</i> ". Forestry Commission Bulletin 122. (eds M. Hislop and J. Claridge). Edinburgh: Forestry Commission. pp 71-80.
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is run by farmers and follows a farmer centred evaluation protocol

Survey of Agroforestry in England, 2001: Progress Report 10

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Middle Claydon: pear intercropping</i>
2.	Location	Middle Claydon, Buckinghamshire
3.	Owner	Confidential
4.	Start date	Trees planted circa 1960
5.	End date	?
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	✓ But interesting succession!
8.	Tree species	Pear cvs Conference and Laxtons Superb
9.	Cropping regime	Was vegetable intercropping
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	Gordon, A.M. and Newman, S.M. (1997) <i>Temperate Agroforestry</i> . CAB International UK. pp 269. ISBN 0 85199 147 5
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is of historical interest as the first site where LER for any agroforestry systems was recorded

Survey of Agroforestry in England, 2001: Progress Report 11

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Middle Claydon: walnut intercropping</i>
2.	Location	Middle Claydon, Buckinghamshire
3.	Owner	Confidential
4.	Start date	1987
5.	End date	?
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓ Annual phenology and yield measurements
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Walnut - four Geisenheim cultivars
9.	Cropping regime	Standard arable rotation (winter)
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	Newman, S.M and Adams M., (1998) Agronomic and economic aspects of walnut agroforestry in the UK. In <i>Agroforestry for sustainable land use: fundamental research and modelling, temperate and Mediterranean applications</i> . Book of Abstracts. European Conference on Agroforestry (Montpellier 23-29 June 1997) CIRAD-Forêt Montpellier, pp.223-225
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is run by farmers and follows a farmer centred evaluation protocol

Survey of Agroforestry in England, 2001: Progress Report 12

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Middle Claydon: silvoarable agroforestry with poplar for biomass</i>
2.	Location	Middle Claydon, Buckinghamshire
3.	Owner	Confidential
4.	Start date	1988
5.	End date	?
6.	Type	
a)	<i>Experiment</i>	✓ Tree crop and PAR measurements. Every second row was thinned in 1998 giving 28-m between rows.
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Poplar cvs Fritzi Pauley and Dorshkamp
9.	Cropping regime	Standard arable rotation (winter)
10.	Pastoral regime	
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is run by farmers and follows a farmer centred evaluation protocol

Survey of Agroforestry in England, 2001: Progress Report 13

1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Middle Claydon: silvoarable agroforestry with poplar for timber</i>
2.	Location	Middle Claydon, Buckinghamshire
3.	Owner	Confidential
4.	Start date	1988
5.	End date	?
6.	Type	
a)	<i>Experiment</i>	✓ Tree crop and PAR measurements. Every second row was thinned in 1998 giving 28-m between rows.
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Poplar cvs Fritzi Pauley and Scot Pauley interplanted with hazel
9.	Cropping regime	Standard arable rotation (winter)
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is run by farmers and follows a farmer centred evaluation protocol

Survey of Agroforestry in England, 2001: Progress Report 14

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Middle Claydon: silvopastoral agroforestry with ash</i>
2.	Location	Middle Claydon, Buckinghamshire
3.	Owner	Confidential
4.	Start date	1987
5.	End date	?
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓ Periodic height and dbh measurements
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Ash
9.	Cropping regime	Not applicable
10.	Pastoral regime	Permanent pasture, rotational grazing
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	Gordon, A.M. and Newman, S.M. (1997) <i>Temperate Agroforestry</i> . CAB International UK. pp 269. ISBN 0 85199 147 5
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is run by farmers and follows a farmer centred evaluation protocol

Survey of Agroforestry in England, 2001: Progress Report 15

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Springhill: organic plum intercropping</i>
2.	Location	Aylesbury, Buckinghamshire
3.	Owner	Confidential
4.	Start date	1988
5.	End date	?
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓ Annual fruit yield measurements
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Plum cv. Victoria with pollinator
9.	Cropping regime	Organic vegetables initially
10.	Pastoral regime	Now free range chickens
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is run by farmers and follows a farmer centred evaluation protocol

Survey of Agroforestry in England, 2001: Progress Report 16

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Colchester: silvopastoral agroforestry with old walnut</i>
2.	Location	Colchester, Essex
3.	Owner	Confidential
4.	Start date	1936
5.	End date	?
6.	Type	
a)	<i>Experiment</i>	✓ Yield and PAR measurements
b)	<i>Trial</i>	
b)	<i>Demonstration</i>	
c)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Walnut for nuts; 14 varieties
9.	Cropping regime	Not applicable
10.	Pastoral regime	Permanent pasture mowed
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	1. Newman, S.M., Wainwright, J., Oliver, P., and Acworth, J.M. (1991a) Walnut in the UK: Research (1900-1991) assessed in relation to experience in other countries. <i>Proceedings 2nd North American Conference on Agroforestry</i> . Missouri USA. University of Missouri Press. pp 74-94. 2. Newman, S.M., Wainwright, J., Oliver, P., and Acworth, J.M. (1991b) Walnut agroforestry in the UK: History and current potential. <i>ibid.</i> pp. 95-115.
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is run by farmers and follows a farmer centred evaluation protocol

Survey of Agroforestry in England, 2001: Progress Report 17

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Colchester: agroforestry with young walnut</i>
2.	Location	Colchester, Essex
3.	Owner	Confidential
4.	Start date	1988
5.	End date	?
6.	Type	
a)	<i>Experiment</i>	✓ Nut yield only
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Walnut for nuts; four Geisenheim cultivars
9.	Cropping regime	Was intercropped with wheat at establishment
10.	Pastoral regime	Permanent pasture mowed
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	1. Newman, S.M., Wainwright, J., Oliver, P., and Acworth, J.M. (1991) Walnut in the UK: History and current potential. <i>Proceedings 2nd North American Conference on Agroforestry</i> . Missouri USA. University of Missouri Press. pp 95-115. 2. Newman, S.M., Wainwright, J., Oliver, P., and Acworth, J.M. (1991) Walnut agroforestry in the UK: Research (1900-1991) assessed in relation to experience in other countries. <i>ibid.</i> pp 74-94.
13.	Name of contact	Dr S.M. Newman (Steve@biodiversity-int.co.uk)
14.	Name of recorder	Steven M Newman
15.	Date	6 th April 2001
16.	Any other relevant details	The site is run by farmers and follows a farmer centred evaluation protocol

Survey of Agroforestry in England, 2001: Progress Report 18

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvoarable agroforestry with poplar</i>
2.	Locations	1. College Farm, Royal Agricultural College, Cirencester GL7 6JS, Gloucestershire 2. Leeds University Farms, Headley Hall, Tadcaster LS24 9NT, West Yorkshire 3. Cranfield University, Silsoe MK45 4DT, Beds.
3.	Owner	1. Royal Agricultural College, Cirencester. 2. School of Biology, University of Leeds. 3. Cranfield University, Silsoe.
4.	Start date	April 1992
5.	End date	MAFF contract end date: 3 rd July 2003
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Maintained</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Four clones of poplar (three hybrid groups)
9.	Cropping regime	Combinable crops: small grain cereals and grain legumes
10.	Pastoral regime	Not applicable at present
11.	Most recent report in the non-refereed literature	Incoll, L.D., Burgess, P.J., Evans, R.J., Corry, D.T. and Beaton, A. (1997) Temperate silvoarable agroforestry with hybrid poplar - Annual report 1996. <i>Agroforestry Forum</i> 8 , Number 3, 12-15.
12.	Most recent report in the refereed indexed literature	Beaton, A., Incoll, L.D. and Burgess, P.J. (1999) <i>Silvoarable agroforestry</i> . <i>Scottish Forestry</i> 53 , No. 1, 28-32.
13.	Name of contact	1. Dr B. Hart (barbara.hart@royagcol.ac.uk) 2. Dr L.D. Incoll (l.d.incoll@leeds.ac.uk) 3. Dr P.J.Burgess (p.burgess@cranfield.ac.uk)
14.	Name of recorder	A. Beaton
15.	Date	20 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 19

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvoarable agroforestry demonstrations at the Royal Agricultural Showground</i>
2.	Location	Royal Agricultural Showground, Stoneleigh, Warwickshire
3.	Owner	Royal Agricultural Society of England
4.	Start date	April 1992
5.	End date	Not decided
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Poplar, ash, cherry, sycamore, oak, sweet chestnut
9.	Cropping regime	Combinable crops: small grain cereals, linseed, oilseed rape
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	Beaton, A. (2000) Trees in agroforestry systems. In " <i>Agroforestry in the UK</i> ". Forestry Commission Bulletin 122. (eds M. Hislop and J. Claridge). Edinburgh: Forestry Commission. p. 36.
13.	Name of contact	Mr Arnold Beaton (arnold.potcom@talk21.com)
14.	Name of recorder	A. Beaton
15.	Date	20 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 20

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>"Oxford Arms" Temperate silvoarable agroforestry for high quality timber production and amenity transplants from thinnings</i>
2.	Location	Little Hidden Farm, Hungerford RG17 0PN, Berks
3.	Owner	Mr W. and Mrs Susan Acworth
4.	Start date	March 1993
5.	End date	March 2193 !!
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	b) <i>Demonstration</i>	
	c) <i>Commercial planting</i>	✓ (no formal records being made)
7.	Status if still extant	
	a) <i>In active use</i>	✓ All trees undergoing annual/biennial pruning
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Ash, black walnut, cherry, oak, sycamore – on lighter soil.
9.	Cropping regime	Combinable crops: small grain cereals and pulses
10.	Pastoral regime	Herbage conservation / grazing when trees are big enough
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Mr W.F. Acworth (Bill Acworth <acworths@littlehiddenfarm.freeserve.co.uk>)
14.	Name of recorder	W.F. Acworth
15.	Date	19 th April 2001
16.	Any other relevant details	4.5 ha (11 acre) site. Root pruning undertaken between every tree in 1999 and down one side of each row in 2000. Principal trees are at 6 m spacing but with intermediate species (hornbeam, London plane, grey alder, Norway maple etc) at 1.2 and 1.8 m spacing, the latter for removal by thinning after 10 years.

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No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Bedfordshire Farm Woodland Demonstration Project: Clapham Park</i>
2.	Location	Clapham Park, Bedford, Bedfordshire
3.	Owner	Bedfordshire County Council
4.	Start date	Feb 1998
5.	End date	Feb 2000
6.	Type	
a)	<i>Experiment</i>	
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	✓
d)	<i>Commercial planting</i>	✓
7.	Status if still extant	
a)	<i>In active use</i>	✓ Being commercially managed
b)	<i>Maintained (but irregular or no data collection)</i>	✓ As a demonstration but no data being collected at present
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	30% ash, 40% oak, 10% hornbeam, 10% small-leaved lime, 10% field maple; planted in 4 groups of 75 trees and 30 groups of 16 trees with stock-proof fencing in 7.34 ha of pasture
9.	Cropping regime	Not applicable
10.	Pastoral regime	Stocked with sheep and cattle
11.	Most recent report in the non-refereed literature	Goodall, G.R. & Burgess, P.J. (1998) The Bedfordshire farm woodland demonstration project. <i>Agroforestry Forum</i> June 1998, 9, (1), 7-11.
12.	Most recent report in the refereed indexed literature	Burgess, P.J., Brierley, E.D.R., & Goodall, G.R. (1999). The financial costs of farm woodland establishment at four sites in Bedfordshire, England. In: <i>Farm Woodlands for the Future</i> (eds. P.J. Burgess, E.D.R. Brierley, J. Morris & J. Evans). Oxford: Bios Scientific. pp. 81-94.
13.	Name of contact	Dr Paul Burgess (p.burgess@cranfield.ac.uk)
14.	Name of recorder	P.J. Burgess
15.	Date	23 rd April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 22

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Bedfordshire Farm Woodland Demonstration Project: Etonbury Wood, Arlesey</i>
2.	Location	Arlesey, Bedford, Bedfordshire
3.	Owner	Landlord: Bedfordshire County Council Tenant: Steve Bumstead
4.	Start date	Feb 1999
5.	End date	Feb 2000
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓
	d) <i>Commercial planting</i>	✓
7.	Status if still extant	
	a) <i>In active use</i>	✓ In commercial use
	b) <i>Maintained (but irregular or no data collection)</i>	✓ As a demonstration but no data being collected at present
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	2.68 ha silvoarable system comprising of poplar planted at a spacing of 15 m x 4 m
9.	Cropping regime	Combinable crops including small grain cereals and pulses
10.	Pastoral regime	
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	Burgess, P.J., Brierley, E.D.R., & Goodall, G.R. (1999). The financial costs of farm woodland establishment at four sites in Bedfordshire, England. In: <i>Farm Woodlands for the Future</i> (eds. P.J. Burgess, E.D.R. Brierley, J. Morris & J. Evans). Oxford: Bios Scientific. pp. 81-94.
13.	Name of contact	Dr Paul Burgess (p.burgess@cranfield.ac.uk)
14.	Name of recorder	P.J. Burgess
15.	Date	23 rd April 2001
16.	Any other relevant details	

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No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Warden Paddock, Shuttleworth Estate, Shuttleworth: Silvopastoral agroforestry with cherry</i>
2.	Location	Old Warden, Bedfordshire
3.	Owner	Shuttleworth Estate
4.	Start date	1990
5.	End date	1996
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	
	b) <i>Maintained (but irregular or no data collection)</i>	✓ In commercial use but no data being collected at present
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	1.36 ha of pasture planted with wild cherry at 8 m x 8 m (209 trees) and at a 3 m x 3 m (36 trees) spacing
9.	Cropping regime	
10.	Pastoral regime	Stocked with sheep
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Dr Paul Burgess (p.burgess@cranfield.ac.uk) Mr Brian Welti, Shuttleworth Estates
14.	Name of recorder	P.J. Burgess
15.	Date	23 rd April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 24

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvopastoral demonstration</i>
2.	Location	Cheddar, Somerset
3.	Owner	S. Pritchard, Bendall's Farm, Green Ore, Nr Wells BA5 3EX, Somerset
4.	Start date	Autumn 2000
5.	End date	Indefinite
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Several
9.	Cropping regime	Not applicable
10.	Pastoral regime	Will be grazed by sheep
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Dr R.O. Clements (bob.clements@bbsrc.ac.uk)
14.	Name of recorder	R.O. Clements (IGER, North Wyke)
15.	Date	24 th April 2001
16.	Any other relevant details	

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No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Wakelyns Agroforestry (Organic Agroforestry): Alley cropping with hardwoods</i>
2.	Location	Wakelyns Farm, Fressingfield, Suffolk IP21 5SD
3.	Owner	Prof. M.S. Wolfe
4.	Start date	1994
5.	End date	Continuing
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓ Organic Agroforestry
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓ Tree heights and girths measured every 1-2 years; crop performance assessed annually. Annual/biennial pruning.
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Ash, cherry, sycamore, oak, small-leaved lime, hornbeam, Italian alder
9.	Cropping regime	Organic arable rotations in all alleys
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Prof. M.S. Wolfe (wolfe@wakelyns.demon.co.uk)
14.	Name of recorder	M.S. Wolfe
15.	Date	27 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 26

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Wakelyns Agroforestry (Organic Agroforestry): Alley cropping with hardwoods and apple</i>
2.	Location	Wakelyns Farm, Fressingfield, Suffolk IP21 5SD
3.	Owner	Prof. M.S. Wolfe
4.	Start date	1994
5.	End date	Continuing
6.	Type	
a)	<i>Experiment</i>	
b)	<i>Trial</i>	✓ Organic Agroforestry
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓ Tree heights and girths measured every 1-2 years; crop performance assessed annually. Annual/biennial pruning.
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Ash, cherry, sycamore, oak, small-leaved lime, hornbeam, Italian alder with apple
9.	Cropping regime	Organic arable rotations in all alleys
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Prof. M.S. Wolfe (wolfe@wakelyns.demon.co.uk)
14.	Name of recorder	M.S. Wolfe
15.	Date	27 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 27

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Wakelyns Agroforestry (Organic Agroforestry): Alley cropping with coppiced hazel</i>
2.	Location	Wakelyns Farm, Fressingfield, Suffolk IP21 5SD
3.	Owner	Prof. M.S. Wolfe
4.	Start date	1995
5.	End date	Continuing
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓ Organic Agroforestry
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓ Tree heights measured periodically; crop performance assessed annually
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Hazel, rows coppiced initially on a 5-year cycle
9.	Cropping regime	Organic arable rotations in all alleys
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Prof. M.S. Wolfe (wolfe@wakelyns.demon.co.uk)
14.	Name of recorder	M.S. Wolfe
15.	Date	27 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 28

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Wakelyns Agroforestry (Organic Agroforestry): Alley cropping with coppiced willow</i>
2.	Location	Wakelyns Farm, Fressingfield, Suffolk IP21 5SD
3.	Owner	Prof. M.S. Wolfe
4.	Start date	1998
5.	End date	Continuing
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓ Organic Agroforestry
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓ Tree heights measured periodically; crop performance assessed annually
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	3 willow species (5 cvs), alternate rows harvested annually
9.	Cropping regime	Organic arable rotations in all alleys
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Prof. M.S. Wolfe (wolfe@wakelyns.demon.co.uk)
14.	Name of recorder	M.S. Wolfe
15.	Date	27 th April 2001
16.	Any other relevant details	Annual willow harvest used mainly for on-farm heating in ceramic stove.

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No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Wakelyns Agroforestry (Organic Agroforestry): Alley cropping with fruit and nut trees</i>
2.	Location	Wakelyns Farm, Fressingfield, Suffolk IP21 5SD
3.	Owner	Prof. M.S.Wolfe
4.	Start date	2000/1
5.	End date	Continuing
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓ Organic Agroforestry
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓ Tree heights and girths measured periodically; crop performance assessed annually
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Walnut, apple, hazel, cherry, quince, pear, plum; pruning as necessary
9.	Cropping regime	Organic arable rotations in all alleys
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Prof. M.S. Wolfe (wolfe@wakelyns.demon.co.uk)
14.	Name of recorder	M.S. Wolfe
15.	Date	27 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in England, 2001: Progress Report 30

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Demonstration planting of clonal and seedling hardwood tree species (cherry, ash, walnut) in agroforestry.</i>
2.	Location	Horticulture Research International, East Malling, West Malling, Kent ME19 6BJ
3.	Owner	Plant Breeding and Biotechnology Department
4.	Start date	February 1998
5.	End date	Not known – long term secure
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓ Flowers removed from nut trees in 2000 to promote vegetative growth. Trees measured and formatively pruned in winter 2001. Cereal crop not measured. Raspberry crop measured (as number of punnets) in summer 2001.
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Ash, wild cherry, black walnut, common walnut, and walnut hybrids. Hazelnut cultivars - a minor item.
9.	Cropping regime	Small grain cereals, Norway spruce (for Christmas trees) and raspberries (cvar. Joan Squire)
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Miss Karen Russell (Karen.Russell@hri.ac.uk)
14.	Name of recorder	Karen Russell
15.	Date	29 th April 2001
16.	Any other relevant details	Hazelnut varieties interplanted with walnut fruit varieties. Nut and timber production an objective.

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No.	Item / Property	Response
1.	Name of project / site	<i>AgrEnforestry tree mixture growth trial with replicated N-fixing mycorrhizal and non-mycorrhizal silvoarable intercrops and tree species</i>
2.	Location	Jodrell Bank, Cheshire
3.	Owner	Manchester University
4.	Start date	1987
5.	End date	1990
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	✓
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	✓
8.	Tree species	Hybrid poplar, ash and alder
9.	Cropping regime	Initially undersown with wheat and sunflower, fodder lupins and clover
10.	Pastoral regime	In the 3 rd year the N-fixing arable plants were replaced by white clover and the non-N-fixers replaced by ryegrass. Mowing was continued for several years.
11.	Most recent report in the non-refereed literature	1990?
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Mr R. Scott, CEH Merlewood, Grange-over-Sands, LA11 6JU, Cumbria. (Tel 015395 32264)
14.	Name of recorder	R. Scott (as above) and G.J. Lawson, CEH Edinburgh, Bush Estate, Penicuik EH26 0QB, Midlothian
15.	Date	8 th May 2001
16.	Any other relevant details	Potentially valuable site for studying the interaction of ground flora with mycorrhizal and non-mycorrhizal tree species and for atmospheric gas exchange studies

Survey of Agroforestry in Wales, 2001: Progress Report 1

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvopastoral National Network Experiment: Bronydd Mawr. Productivity of maturing silvopastoral systems</i>
2.	Location	Bronydd Mawr, Trecastle, Brecon, Powys, LD3 8RD
3.	Owner	Institute of Grassland and Environmental Research
4.	Start date	Autumn 1987
5.	End date	Still in use
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Maintained (but irregular or no data collection)</i>	✓ Trees measured 1987-2001, also animal (sheep) output.
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Ash, sycamore, hybrid larch
9.	Cropping regime	Not applicable
10.	Pastoral regime	160 kg N ha ⁻¹ Grazed by ewes and lambs
11.	Most recent report in the non-refereed literature	Sibbald, A.R. and Dalziel, A.J.I. (2000) <i>Silvopastoral National Network Experiment - Annual Report 1999. UK Agroforestry Forum Newsletter</i> Number 1, December 2000. pp 2-6.
12.	Most recent report in the refereed indexed scientific literature	Sibbald, A.R., Eason, W.R., McAdam, J. H. and Hislop, A.M. (2001) The establishment phase of a silvopastoral national network experiment in the UK. <i>Agroforestry Systems</i> 53 , 39-53.
13.	Name of contact	Dr R.O. Clements (bob.clements@bbsrc.ac.uk)
14.	Name of recorder	R.O. Clements
15.	Date	5 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in Wales, 2001: Progress Report 2
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No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Henfaes silvoarable demonstration</i>
2.	Location	Henfaes Research Station, University of Wales, Bangor (UWB)
3.	Owner	University of Wales, Bangor
4.	Start date	Spring 1998
5.	End date	Still in use
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓ Primarily a demonstration site - occasional data collection for student projects
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Ash, poplar cvs Trichobel, Ghoy, Gaver, TT32 (Balsam Spire)
9.	Cropping regime	Various arable (hemp, barley)
10.	Pastoral regime	Not applicable
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Dr Fergus Sinclair (f.l.sinclair@bangor.ac.uk)
14.	Name of recorder	Fergus Sinclair
15.	Date	3 rd May 2001
16.	Any other relevant details	Site planted in conjunction with Forestry Commission as a demonstration for the UK Agroforestry Forum Annual Meeting in July 1998

Survey of Agroforestry in Wales, 2001: Progress Report 3

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvopastoral National Network Experiment: Henfaes. Productivity of maturing silvopastoral systems</i>
2.	Location	Henfaes Research Station, University of Wales, Bangor (UWB)
3.	Owner	University of Wales, Bangor
4.	Start date	Autumn 1992
5.	End date	Still in use
6.	Type	
	a) <i>Experiment</i>	✓
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Sycamore, red alder
9.	Cropping regime	Not applicable
10.	Pastoral regime	160 kg N ha ⁻¹ . Grazed by ewes and lambs
11.	Most recent report in the non-refereed literature	Sibbald, A.R. and Dalziel, A. (2000) <i>Silvopastoral National Network Experiment - Annual Report 1999. UK Agroforestry Forum Newsletter</i> Number 1, December 2000, pp 2-6.
12.	Most recent report in the refereed indexed scientific literature	Teklehaimanot, Z., Sinclair, F.L. and Jones, M. (2001) Tree species and planting pattern affect productivity of trees but not livestock in the establishment phase of temperate silovpasture. <i>Agroforestry Systems</i> (in press)
13.	Name of contact	Dr Zewge Teklehaimanot (z.teklehaimanot@bangor.ac.uk)
14.	Name of recorder	Zewge Teklehaimanot
15.	Date	3 rd May 2001
16.	Any other relevant details	

Survey of Agroforestry in Wales, 2001: Progress Report 4

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>On-farm silvopastoralism: Various types of tree planting on an upland farm - trees in hedgerows, individual trees at field margins, mixed species clumps in fields, farm woodland.</i>
2.	Location	Rhydlanfair Farm, Nebo, Betws-y-coed, Conwy
3.	Owner	National Trust
4.	Start date	Various (1982-1998)
5.	End date	Still in use
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓ No data collection - demonstration site
	b) <i>Maintained (but irregular or no data collection)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	English walnut, black walnut, noble fir, Norway spruce, holly, plum, apple, pear, wild cherry, ash, oak, European larch, birch, hazel, beech, southern beech, sycamore, poplar clones.
9.	Cropping regime	Not applicable
10.	Pastoral regime	Grazed by sheep
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed scientific literature	None
13.	Name of contact	Mr Andrew Roberts (Telephone: 0771 3948565; 01690 713318; 01690 710636)
14.	Name of recorder	Michelle Jones
15.	Date	3 rd May 2001
16.	Any other relevant details	

Survey of Agroforestry in Wales, 2001: Progress Report 5

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Radnor agroforestry demonstration: The effect of agricultural rates of fertilizer (especially nitrogen) applied to sheep pasture containing widely spaced trees.</i>
2.	Location	16 km NE of Llandrindod Wells, Powys
3.	Owner	Forest Enterprise
4.	Start date	1986
5.	End date	Still in use as a demonstration site
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	✓
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Maintained (but irregular or no data collection)</i>	✓ Tree last measured 1995. Squirrel damage assessment 1997
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Japanese larch, thinned to approx. 100 stems ha ⁻¹
9.	Cropping regime	Not applicable
10.	Pastoral regime	Controlled grazing 15 sheep ha ⁻¹ . 60 kg ha ⁻¹ P and 100 kg ha ⁻¹ K applied on all plots 1986-1989, together with treatments of 0, 75 and 150 kg ha ⁻¹ N applied 1987-1989. N treatments discontinued in 1989 and 150 kg ha ⁻¹ N applied across all plots since then.
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Mr C.D. Jones (research.talybont@forestry.gsi.gov.uk)
14.	Name of recorder	B.L. Jones
15.	Date	18 th April 2001
16.	Any other relevant details	

Survey of Agroforestry in Scotland, 2001: Progress Report 1

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>BAFNET: Biogeochemical cycling in AgriForestry systems NETWORK</i>
2.	Location	SAC, Craibstone Estate, Aberdeen AB21 9TQ
3.	Owner	Scottish Agricultural College (SAC)
4.	Start date	1991 (Planted May 1991)
5.	End date	
6.	Type	
a)	<i>Experiment</i>	✓ - Tree heights and diameters measured annually. Soil inorganic nitrogen measured twice per annum. Treatments maintained (See pastoral regime below.)
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	✓
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Sycamore, cherry
9.	Cropping regime	Not applicable
10.	Pastoral regime	Understorey of white clover, perennial ryegrass, or maintained vegetation free
11.	Most recent report in the non-refereed literature	Hooker, J.E., Watson, C.A., Black, K.E., Buckner, A., Myers, P., Edwards, A.C., Bulfin, M., Bagnaresi, U., Bohne, H. & Alifragis, D. (1995) Biogeochemical cycling in agriforestry systems network (BAFNET). <i>Agroforestry Forum</i> 6 , 20-21.
12.	Most recent report in the refereed indexed literature	Watson, C.A., Ross, J.M., Bagnaresi, U., Minotta, G.F., Roffi, F., Atkinson, D., Black, K.E. & Hooker, J.E. (2000) Environment-induced modifications to root longevity in <i>Lolium perenne</i> and <i>Trifolium repens</i> . <i>Annals of Botany</i> 85 , 397-401.
13.	Name of contact	Dr Christine Watson (c.watson@ab.sac.ac.uk)
14.	Name of recorder	Christine Watson
15.	Date	17 th April 2001
16.	Any other relevant details	This site was one of a network of five European agroforestry sites (1991-1996).

Survey of Agroforestry in Scotland, 2001: Progress Report 2

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvopastoral National Network Experiment: Glensaugh. Productivity of maturing silvopastoral systems</i>
2.	Location	Macaulay Land Use Research Institute, Glensaugh Research Station, Laurencekirk, AB30 1HB
3.	Owner	Macaulay Land Use Research Institute, Aberdeen
4.	Start date	1 st April 1988
5.	End date	Ongoing
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Maintained (but irregular or no data collection)</i>	✓ Care and maintenance from 1st April 2001. Swards maintained by sheep under the control of farm staff. No agricultural data recording. Forest Research will collect basic tree data biennially.
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Sycamore, Scots pine, hybrid larch.
9.	Cropping regime	Not applicable
10.	Pastoral regime	Ryegrass/white clover pastures fertilised at 160 kg ha ⁻¹ N, 50 kg ha ⁻¹ P ₂ O ₅ and 50 kg ha ⁻¹ K ₂ O annum ⁻¹ . Pastures grazed by sheep from mid-April to November (lambs weaned in mid-July). Swards maintained at a prescribed sward-height by putting-and-taking sheep in response to weekly sward-height measurements.
11.	Most recent report in the non-refereed literature	Sibbald, A.R., Hislop, A.M. Dalziel, A.J.I. and Macleod, A. (2000) Glensaugh Silvopastoral National Network Site – Annual Report 1999. <i>UK Agroforestry Forum Newsletter</i> , No. 1: 7-8.
12.	Most recent report in the refereed indexed literature	Sibbald, A.R., Eason, W.R., McAdam, J. H. and Hislop, A.M. (2001) The establishment phase of a silvopastoral national network experiment in the UK. <i>Agroforestry Systems</i> 53 , 39-53.
13.	Name of contact	Mr Alan Sibbald (a.sibbald@macauley.ac.uk)
14.	Name of recorder	Alan Sibbald
15.	Date	23 rd April 2001
16.	Any other relevant details	

Survey of Agroforestry in Scotland, 2001: Progress Report 3

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Hill Sheep and Native Woodland Project</i>
2.	Location	Gleann a'Clachain, SAC, Hill and Mountain Research Centre, Kirkton, Crianlarich FK20 8RU
3.	Owner	Scottish Agricultural College
4.	Start date	1999
5.	End date	No end date envisaged
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	✓
d)	<i>Commercial planting</i>	✓
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	60% birch, 20% pine, 5% willow, 5% rowan, 5% alder & 5% other minor species
9.	Cropping regime	Not applicable
10.	Pastoral regime	Once trees are established, summer grazing regime
11.	Most recent report in the non-refereed literature	Never reported
12.	Most recent report in the refereed indexed literature	Hulbert, I.A.R. <i>et al.</i> (1999) Silvi-pastoralism for the uplands of Scotland. A new approach to an old problem: the integration of farming and forestry. <i>Scottish Forestry</i> 53 , 231-235. Morgan-Davies, C. <i>et al.</i> (2000) Uptake of innovative hill land use systems. <i>Scottish Forestry</i> 54 , 203-208.
13.	Name of contact	Dr I.A.R. Hulbert (i.hulbert@au.sac.ac.uk)
14.	Name of recorder	Ian Hulbert
15.	Date	8 th May 2001
16.	Any other relevant details	Web site: http://www.sac.ac.uk/foodsys/external/hill&mountain/hillmnt.htm

Survey of Agroforestry in Scotland, 2001: Progress Report 4

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>The nutrient and water relations of grass and trees in the early stages of a silvopastoral system.</i>
2.	Location	Macaulay Land Use Research Institute, Glensaugh Research Station, Laurencekirk, AB30 1HB
3.	Owner	Macaulay Land Use Research Institute, Aberdeen
4.	Start date	1 st April 1987
5.	End date	Ongoing
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Maintained (but irregular or no data collection)</i>	✓ Care and maintenance for 5 years. Swards maintained by sheep under the control of farm staff. No plans to collect agricultural or tree data.
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Wild cherry
9.	Cropping regime	Not applicable
10.	Pastoral regime	Perennial ryegrass/white clover pastures fertilised at 72 kg or 144 kg N ha ⁻¹ , 50 kg ha ⁻¹ P ₂ O ₅ and 50 kg ha ⁻¹ K ₂ O annum ⁻¹ . Pastures grazed by sheep from mid-April to November. Swards maintained at two heights (3.5 and 5.5 cm).
11.	Most recent report in the non-refereed literature	Sibbald, A.R., Campbell, C.D., Agnew, R.D.M., Laviolette, P., Dawson, L., Elston, D.A. and Harrison, C. (1994) Effects of nitrogen fertilizer, herbicide and sward height control in competition between trees and grass in a silvopastoral system. <i>Agroforestry Forum</i> 5, 17-18.
12.	Most recent report in the refereed indexed literature	Campbell, C.D., Atkinson, D., Jarvis, P.G. and Newbould, P. (1994) Effects of nitrogen fertiliser on tree/pasture competition during the establishment phase of a silvopastoral system. <i>Annals of Applied Biology</i> , 124, 83-96.
13.	Name of contact	Mr Alan Sibbald (a.sibbald@macaulay.ac.uk)
14.	Name of recorder	Alan Sibbald
15.	Date	16 th May 2001
16.	Any other relevant details	

Survey of Agroforestry in Scotland, 2001: Progress Report 5

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Growth of pasture under widely-spaced conifers.</i>
2.	Location	FC Glentress Forest, Peebleshire, Scotland
3.	Owner	Forestry Commission (Forest Enterprise)
4.	Start date	1 st April 1986
5.	End date	31 st March 1990
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Maintained (but irregular or no data collection)</i>	
c)	<i>Terminated</i>	✓
d)	<i>Abandoned</i>	✓ The range of tree canopies may still exist.
8.	Tree species	Sitka spruce
9.	Cropping regime	Not applicable
10.	Pastoral regime	Perennial ryegrass pastures grown in sward boxes distributed in a spatially-stratified pattern below the 9 tree canopies and in an agricultural control. Fertilised at 160 kg N ha ⁻¹ , 50 kg ha ⁻¹ P ₂ O ₅ and 50 kg ha ⁻¹ K ₂ O annum ⁻¹ . Sward boxes were hand-cut 10 times per annum to simulate grazing and to estimate pasture productivity.
11.	Most recent report in the non-refereed literature	Sibbald, A.R. and Griffiths, J.H. (1992) The effects of conifer canopies at wide spacing on some understorey meteorological parameters. <i>Agroforestry Forum</i> 3(3), 8-15.
12.	Most recent report in the refereed indexed literature	Sibbald, A.R., Griffiths, J.H. and Elston, D.E. (1994) Herbage yield in agroforestry systems as a function of easily measured attributes of the tree canopy. <i>Forest Ecology and Management</i> 65, 195-200.
13.	Name of contact	Mr Alan Sibbald (a.sibbald@macaulay.ac.uk)
14.	Name of recorder	Alan Sibbald
15.	Date	16 th May 2001
16.	Any other relevant details	

Survey of Agroforestry in Northern Ireland, 2001: Progress Report 1

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Upland species for agroforestry</i>
2.	Location	Rathsherry, Longmore Road, Broughshane, Co. Antrim
3.	Owner	Ian Gibson (address as above)
4.	Start date	Spring 1999
5.	End date	Undetermined
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓ Replicated plots of mixed tree species (spaced and clumps)
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓ Trees planted spring 2000
	b) <i>Mothballed (no data collection but being maintained)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Ash, sycamore, Scots pine, birch, willow, alder
9.	Cropping regime	
10.	Pastoral regime	Rotational grazing
11.	Most recent report in the non-refereed literature	None
12.	Most recent report in the refereed indexed literature	None
13.	Name of contact	Dr J.H. McAdam (jim.mcadam@dardni.gov.uk)
14.	Name of recorder	J.H. McAdam
15.	Date	25 th June 2001
16.	Any other relevant details	No visits possible in June 2001 (Foot and Mouth Disease restrictions)

Survey of Agroforestry in Northern Ireland, 2001: Progress Report 2

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvopastoral National Network Experiment: Broughshane. Productivity of maturing silvopastoral systems</i>
2.	Location	Rathsherry, 115 Longmore Road, Broughshane, Co.Antrim
3.	Owner	Ian Gibson
4.	Start date	1991
5.	End date	Undetermined
6.	Type	
a)	<i>Experiment</i>	✓ Replicate plots of T400, T2500 & grazed only as part of National Network Experiment
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓
b)	<i>Mothballed (no data collection but being maintained)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Sycamore
9.	Cropping regime	
10.	Pastoral regime	160 kg N ha ⁻¹ , continuously grazed, Blackface ewes
11.	Most recent report in the non-refereed literature	Sibbald, A.R. and Dalziel, A.J.I. (2000) <i>Silvopastoral National Network Experiment - Annual Report 1999. UK Agroforestry Forum Newsletter</i> Number 1, December 2000, pp 2-6.
12.	Most recent report in the refereed indexed literature	Not reported
13.	Name of contact	Dr J.H. McAdam (jim.mcadam@dardni.gov.uk)
14.	Name of recorder	J.H. McAdam
15.	Date	25 th June 2001
16.	Any other relevant details	All measurement suspended in 2001 (Foot and Mouth Disease restrictions)

Survey of Agroforestry in Northern Ireland, 2001: Progress Report 3

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Grazing system/ species interaction silvopastoral trial and demonstration, Loughgall, Co. Armagh, Northern Ireland</i>
2.	Location	Agroforestry Unit, 87 Drumilly Road, Loughgall BT61 8JH
3.	Owner	Department of Agriculture and Rural Development
4.	Start date	1997
5.	End date	Still in use
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓
	b) <i>Demonstration</i>	✓
	c) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓
	b) <i>Mothballed (no data collection but being maintained)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Ash (4 Dutch clones + wild), cherry (4 HRI clones + wild), sycamore, cider apple, hazel, sweet chestnut
9.	Cropping regime	
10.	Pastoral regime	60 kg N ha ⁻¹ grazed (rotational or continuous)
11.	Most recent report in the non-refereed literature	J. McAdam and F. Mulholland (1999) New silvopastoral trial to investigate effects of grazing pattern on a range of trees. <i>Agroforestry Forum</i> 9 (3) 15-16.
12.	Most recent report in the refereed indexed scientific literature	
13.	Name of contact	Dr J.H. McAdam (jim.mcadam@dardni.gov.uk) / Mr G.M. Hoppe, Applied Plant Science Division DARD
14.	Name of recorder	J.H. McAdam
15.	Date	25 th June 2001
16.	Any other relevant details	

Survey of Agroforestry in Northern Ireland, 2001: Progress Report 4

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvopastoral National Network Experiment: Loughgall, Co. Armagh, N.Ireland. Productivity of maturing silvopastoral systems</i>
2.	Location	Agroforestry Unit, 87 Drumilly Road, Loughgall, BT61 8JH
3.	Owner	Department of Agriculture and Rural Development
4.	Start date	Spring 1989
5.	End date	Still in use
6.	Type	
a)	<i>Experiment</i>	✓ Sycamore & ash; 400 stems ha ⁻¹ , 2500 stems ha ⁻¹ , grazing only and woodland control
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	✓
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓ Tree growth, pasture production, sheep output and performance all measured. Small mammals trapped 2001
b)	<i>Mothballed (no data collection but being maintained)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Ash, sycamore
9.	Cropping regime	Not applicable
10.	Pastoral regime	160 kg N ha ⁻¹ , grazed by ewes and lambs
11.	Most recent report in the non-refereed literature	Sibbald, A.R. and Dalziel, A.J.I. (2000) <i>Silvopastoral National Network Experiment - Annual Report 1999. UK Agroforestry Forum Newsletter</i> Number 1, December 2000, pp 2-6.
12.	Most recent report in the refereed indexed scientific literature	Sibbald, A.R., Eason, W.R., McAdam, J. H. and Hislop, A.M. (2001) The establishment phase of a silvopastoral national network experiment in the UK. <i>Agroforestry Systems</i> 53 , 39-53.
13.	Name of contact	Dr J.H. McAdam (jim.mcadam@dardni.gov.uk)
14.	Name of recorder	J.H. McAdam / G.M. Hoppe
15.	Date	25 th June 2001
16.	Any other relevant details	T100 (100 stems ha ⁻¹) treatment discontinued in 2000

Survey of Agroforestry in Northern Ireland, 2001: Progress Report 5

No.	Item / Property	Response
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1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Silvoarable demonstration and trial, Loughgall, Co.Armagh, N.Ireland</i>
2.	Location	Agroforestry Unit, 87 Drumilly Road, Loughgall, BT61 8JH
3.	Owner	Department of Agriculture and Rural Development
4.	Start date	Spring 1999
5.	End date	Still in use
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	✓ 1 ha site
	c) <i>Demonstration</i>	✓
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓ Tree growth, cereal guide across rows measurement. Small mammals trapped 2001
	b) <i>Mothballed (no data collection but being maintained)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Poplar (4 clones)
9.	Cropping regime	Spring barley (1 ha) cv. Riviera. No rotation yet
10.	Pastoral regime	
11.	Most recent report in the non-refereed literature	Not reported
12.	Most recent report in the refereed indexed literature	Not reported
13.	Name of contact	Dr J.H. McAdam (jim.mcadam@dardni.gov.uk)
14.	Name of recorder	J.H. McAdam
15.	Date	25 th June 2001
16.	Any other relevant details	

Survey of Agroforestry in Northern Ireland, 2001: Progress Report 6

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Ballywalter Silvopastoral demonstration</i>
2.	Location	108 Whitechurch Road, Ballywalter BT22 2JY, Co Down
3.	Owner	Mrs M.E. McAdam (address as above)
4.	Start date	1996
5.	End date	Still in use
6.	Type	
a)	<i>Experiment</i>	✓ (3 sub-plots of ash @ 5 m x 5 m)
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	✓
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	✓ Tree growth measured annually. Fenced off in 2001
b)	<i>Mothballed (no data collection but being maintained)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	
8.	Tree species	Ash, cherry, sycamore, oak
9.	Cropping regime	
10.	Pastoral regime	80 kg N ha ⁻¹ , rotationally grazed with ewes and lambs
11.	Most recent report in the non-refereed literature	Not reported
12.	Most recent report in the refereed indexed literature	Not reported
13.	Name of contact	Dr J.H. McAdam (jim.mcadam@dardni.gov.uk)
14.	Name of recorder	J.H. McAdam
15.	Date	25 th June 2001
16.	Any other relevant details	

Survey of Agroforestry in Northern Ireland, 2001: Progress Report 7

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Glenwherry silvopastoral demonstration</i>
2.	Location	Greenmount College Hill Farm, Glenwherry, Co. Antrim
3.	Owner	Department of Agriculture and Rural Development
4.	Start date	1995
5.	End date	Still in use
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓ Approximately 1 ha site of mixed species
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	
	b) <i>Mothballed (no data collection but being maintained)</i>	✓
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Ash, sycamore, beech, larch
9.	Cropping regime	
10.	Pastoral regime	Sporadic grazing (rotational), Blackface sheep
11.	Most recent report in the non-refereed literature	Not reported
12.	Most recent report in the refereed indexed literature	Not reported
13.	Name of contact	Dr J.H. McAdam (jim.mcadam@dardni.gov.uk)
14.	Name of recorder	J.H. McAdam
15.	Date	25 th June 2001
16.	Any other relevant details	

Survey of Agroforestry in Northern Ireland, 2001: Progress Report 8

No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Saintfield Silvopastoral demonstration</i>
2.	Location	Green Road, Saintfield, Co. Down
3.	Owner	Mr Crosby Cleland
4.	Start date	1995
5.	End date	Ongoing
6.	Type	
	a) <i>Experiment</i>	
	b) <i>Trial</i>	
	c) <i>Demonstration</i>	✓ (approximately 2 ha)
	d) <i>Commercial planting</i>	
7.	Status if still extant	
	a) <i>In active use</i>	✓
	b) <i>Mothballed (no data collection but being maintained)</i>	
	c) <i>Terminated</i>	
	d) <i>Abandoned</i>	
8.	Tree species	Ash, sycamore
9.	Cropping regime	
10.	Pastoral regime	Intermittent grazing with sheep; 120 kg N ha ⁻¹
11.	Most recent report in the non-refereed literature	
12.	Most recent report in the refereed indexed literature	
13.	Name of contact	Dr J.H. McAdam (jim.mcadam@dardni.gov.uk)
14.	Name of recorder	J.H. McAdam
15.	Date	25 th June 2001
16.	Any other relevant details	Mixed ash/sycamore in 2 fields

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No.	Item / Property	Response
1.	Name of project / site (as in <i>Agroforestry Forum</i> if previously published)	<i>Mature silvopastoral agroforestry with poplar</i>
2.	Location	Greyabbey Road, Ballywalter, Co. Down
3.	Owner	Mr B. Calvert
4.	Start date	1958
5.	End date	1998
6.	Type	
a)	<i>Experiment</i>	✓
b)	<i>Trial</i>	
c)	<i>Demonstration</i>	
d)	<i>Commercial planting</i>	
7.	Status if still extant	
a)	<i>In active use</i>	
b)	<i>Mothballed (no data collection but being maintained)</i>	
c)	<i>Terminated</i>	
d)	<i>Abandoned</i>	✓ Trees cleared in 1998. Used for PhD study
8.	Tree species	Poplar
9.	Cropping regime	
10.	Pastoral regime	
11.	Most recent report in the non-refereed literature	Crowe, S.R. & McAdam, J.H. (1993) Factors affecting herbage biomass production in a mature silvopastoral system. <i>Agroforestry Forum</i> 4 (3) 14-18
12.	Most recent report in the refereed indexed literature	Crowe S.R. & McAdam J.H. (1992) Sward dynamics in a mature poplar agroforestry system grazed by sheep. <i>Aspects of Applied Biology</i> 29, 413-418
13.	Name of contact	Dr J.H. McAdam (jim.mcadam@dardni.gov.uk)
14.	Name of recorder	J.H. McAdam
15.	Date	25 th June 2001
16.	Any other relevant details	PhD thesis by R. Crowe

APPENDIX

Species List

Authority: Mabberley, D.J. (1997) The Plant Book. Cambridge University Press, Cambridge.

Common name	Scientific name
Woody species	
Alder, Italian	<i>Alnus cordata</i> Desf.
Alder, red	<i>Alnus rubra</i> Bong.
Apple	<i>Malus domestica</i> Borkh.
Apple, cider	<i>Malus domestica</i> Borkh.
Ash	<i>Fraxinus excelsior</i> L.
Beech	<i>Fagus sylvatica</i> L.
Beech, southern	<i>Nothofagus procera</i>
Birch	<i>Betula pendula</i> Roth
Cherry	<i>Prunus</i> spp.
Cherry, wild	<i>Prunus avium</i> (L.) L.
Chestnut, sweet	<i>Castanea sativa</i> L.
Fir, noble	<i>Abies procera</i> Rehder
Hazel	<i>Corylus avellana</i> L.
Holly	<i>Ilex aquifolium</i> L.
Hornbeam	<i>Carpinus betulus</i> L.
Larch, European	<i>Larix decidua</i> Miller
Larch, hybrid	<i>Larix x eurolepis</i>
Larch, Japanese	<i>Larix kaempferi</i> (Lamb.) Carrière
Lime, small-leaved	<i>Tilia cordata</i> Miller
Maple, field	<i>Acer campestre</i> L.
Oak	<i>Quercus robur</i> L.
Pear	<i>Pyrus communis</i> L.
Pine, Corsican	<i>Pinus nigra</i> J.F. Arnold var. <i>maritima</i>
Pine, Scots	<i>Pinus sylvestris</i> L.
Plane, London	<i>Platanus x hispanica</i> Miller ex Münchh. 'Acerifolia'
Plum	<i>Prunus x domestica</i> L.
Poplar	<i>Populus</i> sp.
Quince	<i>Cydonia oblonga</i> Miller
Rowan (Mountain Ash)	<i>Sorbus aucuparia</i> L.
Raspberry	<i>Rubus</i> spp.
Spruce, Norway	<i>Picea abies</i> (L.) Karsten
Spruce, Sitka	<i>Picea sitchensis</i> [Bong.] Carr.
Sycamore	<i>Acer pseudoplatanus</i> L.
Willow	<i>Salix</i> sp.
Walnut, English, common	<i>Juglans regia</i> L.
Walnut, black	<i>Juglans nigra</i> L.
Cultivars	
Pear cvs.	Conference, Laxton's Superb
Plum cv.	Victoria
Poplar cvs	Boelare, Beaupre
	Scott Pauley, Fritz Pauley
	Dorshkamp
	Trichobel, Ghoy, Gaver, TT32 (Balsam Spire)
Raspberry	Joan Squire
Walnut cvs	Geisenheim cultivars
Crop species	
Barley	<i>Hordeum</i> sp.
Barley, spring	<i>Hordeum vulgare</i> subsp. <i>distichon</i> or <i>vulgare</i> (L.) Koern.
Clover	<i>Trifolium</i> sp.

Clover, white	<i>Trifolium repens</i> L.
Hemp	<i>Cannabis sativa</i> L.
Linseed	<i>Linum usitatissimum</i> L. subsp. <i>bienne</i> (Miller) Stankevich
Lupin, fodder	<i>Lupinus</i> sp.
Oilseed rape	<i>Brassica napus</i> L. subsp. <i>oleifera</i>
Ryegrass, perennial	<i>Lolium perenne</i> L.
Sunflower	<i>Helianthus annuus</i> L.
Wheat	<i>Triticum aestivum</i> L.