LONG TERM STUDY OF THE AGROFORESTRY SITE AT LEEDS UNIVERSITY FARM NEAR TADCASTER.

For background information and results of initial trap, see IMPRINT No. 17, p 6-8.

Second Trap

The agroforestry treatment areas at Leeds University Experimental Farm consist of production hedges containing timber trees with an intermediate storey of hazel bushes. These are interspersed with arable strips 12m wide which are being cropped with a rotation of combinable crops. The site was planted in spring 1988 and, during 1990, grass was sown in the 2m production hedge strips.

Abutting onto the agroforestry treatment areas are forestry control plots, and surrounding the whole is a windbreak hedge.

The above planting is replicated four times. Near to each - but far enough to minimise microclimatic interactions - are areas of arable control treatment.

The site is being monitored to compare arable yields, tree growth, microclimatic and soil moisture measurements in the experimental and control treatments. Extensive micro and macrofaunal monitoring is also underway and the YMG will be participating in small mammal studies over a long term period.

SECOND TRAP, 13 - 14/10/91

Participants:

Kate Fuller
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Michael Thompson
Dick Wakelin
Chris Wright (coordinator of faunal monitoring)

Notes:

The object of the trap was to study small mammal use of agroforestry experimental and control treatments and also nearby woodland, hedgerows and shelter belt. The results will be compared with those of the previous trap at the same site, and with future records.

Report:

Traps were laid in two treatment blocks, with eight traps (4 x 2) in hedges, eight traps (4 x 2) in arable strips and eight traps in forestry control. The eight traps due to be laid in each arable control block could not be set because these areas were due to be harvested the next day. Instead, the arable control blocks were trapped on the following Monday.

Traps were also laid in nearby woodland, hedgerows and shelter belt to ascertain which small mammal species were present in the area.

The traps were set on Friday and Saturday evenings and taken up on Saturday and Sunday mornings.

Results:

12/10/91

ENVIRONMENTAL TREATMENT BLOCKS AND CONTROLS

BLOCK IV

Site	Species	Sex	Weight(g)
Forestry Control 1	*Apodemus sylvaticus*	F	18.0
Forestry Control 2	*Apodemus sylvaticus*	F	13.5
Agroforestry Hedge 2	*Apodemus sylvaticus*	M	22.5
Agroforestry Hedge 2	*Apodemus sylvaticus*	F	15.0
Agroforestry Strip 2	*Apodemus sylvaticus*	M	15.0
Agroforestry Strip 3	*Apodemus sylvaticus*	M	15.5

BLOCK II

Site	Species	Sex	Weight(g)
Agroforestry Strip 3	*Apodemus sylvaticus*	M	16.0