



Suffolk
Wildlife
Trust

BELLAMY'S PLOTS
RECORDED 1991

REDGRAVE
THELNETHAM
MARKET WESTON

REPEAT OF BELLAMY & ROSE'S MONITORING PLOTS : LOCATION

Plots recorded by Bellamy and Rose (1960) were re-recorded in 1991 by M. Harding (Suffolk Wildlife Trust) and Wanda Fojt (English Nature). Plots were re-located from maps and descriptions contained in the original paper. Where these could not be located precisely due to imprecision in the paper, the area most resembling that described by their data was selected. Thus the data recorded in 1991 represent the minimum change observed. Plot locations are (see attached maps, all distances refer \pm to centre of plots):

Market Weston Fen:

- Plot I : c.40m south of river, 30m west of path, in tall herb and reed fen.
Plot II : 25m from wier, on a bearing of 47° from the wier.
Plot III : c.26m from the sand margin, 30m from the centre of the projecting sandy tongue, more or less directly in front of Plot IIIa.
Plot IIIa : Over the sphagnum carpet. c.15m from the sand margin and 30m from the centre of the tongue, directly behind Plot III.

Thelnetham Old Fen:

- Plot I : On the fen meadow, c.7m south of the molinia baulk and 10m west from the line of alders marking the sandy margin.
Plot II : In an area of mixed sedge, due north west of Plot I towards the western edge of the open fen.
Plot IIIa : Within the western carr area, within the young alder portions about 20m north of the line between Plot I and II.

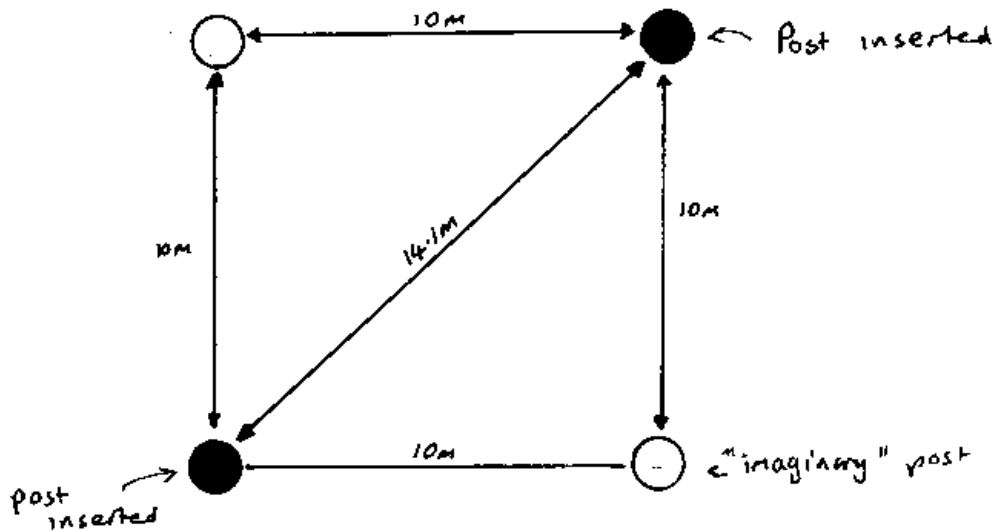
Redgrave and Lopham Fens:

- Area II : This is located \pm between Areas III and IV, the heath plots.

The other plots were not surveyed in with accuracy because there was nothing permanent to measure them to and from. Most of the scrub has now been felled. Relocation must be via the maps and posts.

Plot Marking:

The plots have been marked by placement of 5" posts on two of the diagonals:



Thus the gap between is 14.1m, marking a plot of 10 x 10m. Forming a square from these two diagonal posts would therefore be easy. The posts in the taller vegetation have been painted with red tops

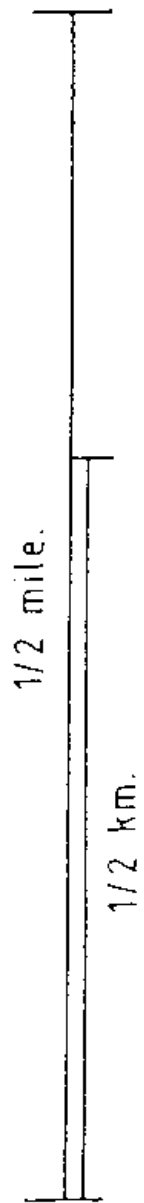
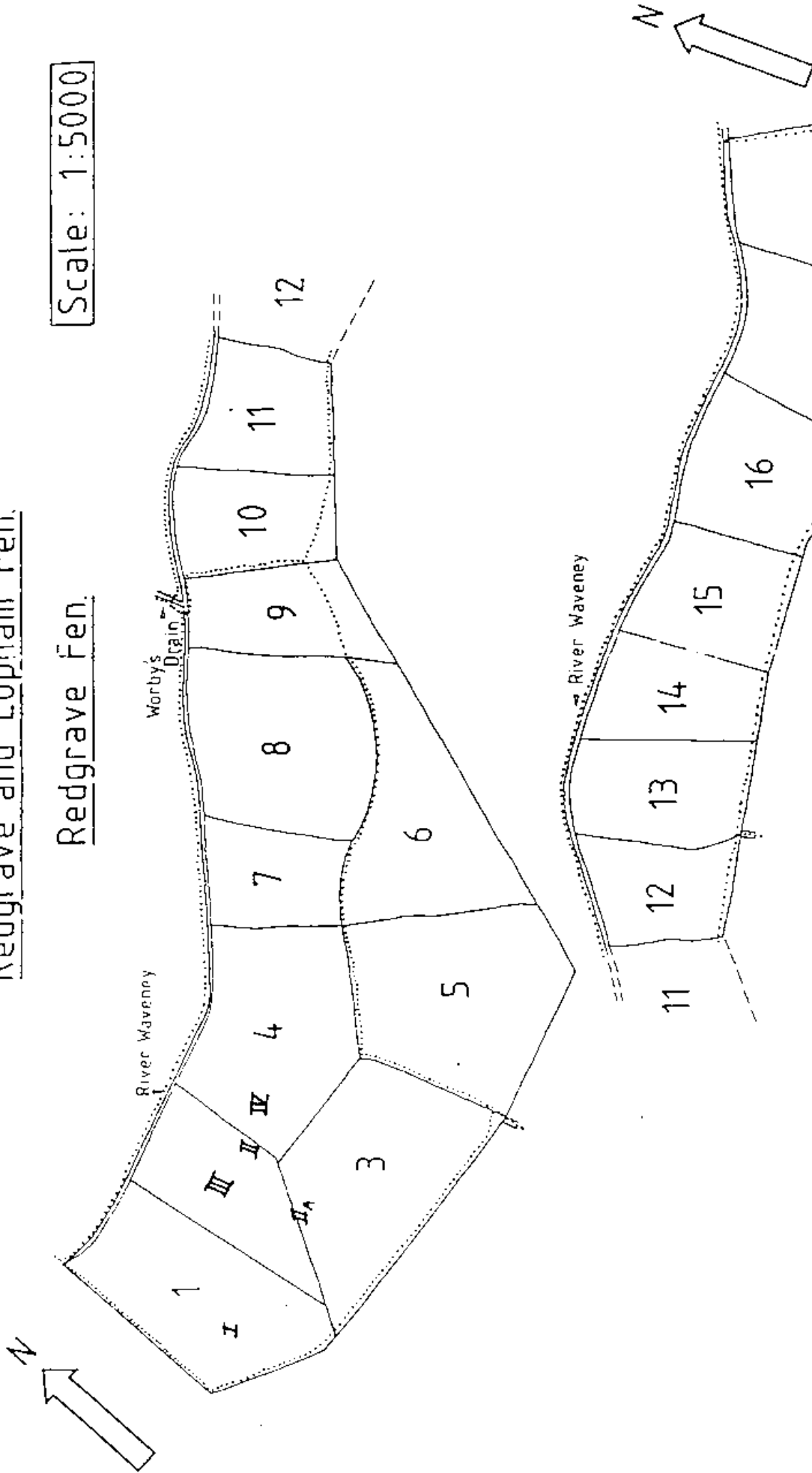
Mike Harding
Reserves Manager

19th May 1992

Redgrave and Lopham Fen.

Redgrave Fen.

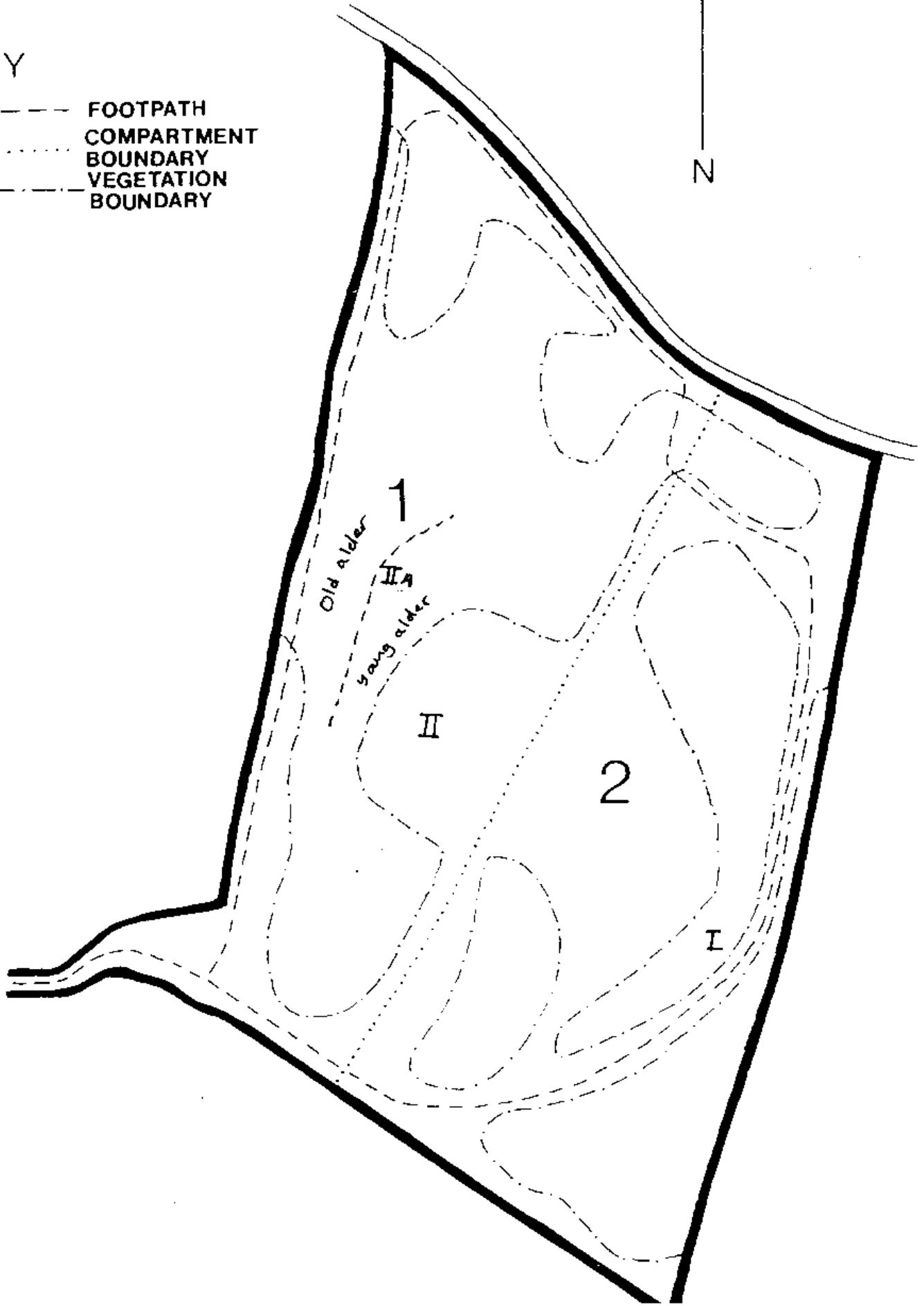
Scale: 1:5000



THELNETHAM FEN, OLD FEN

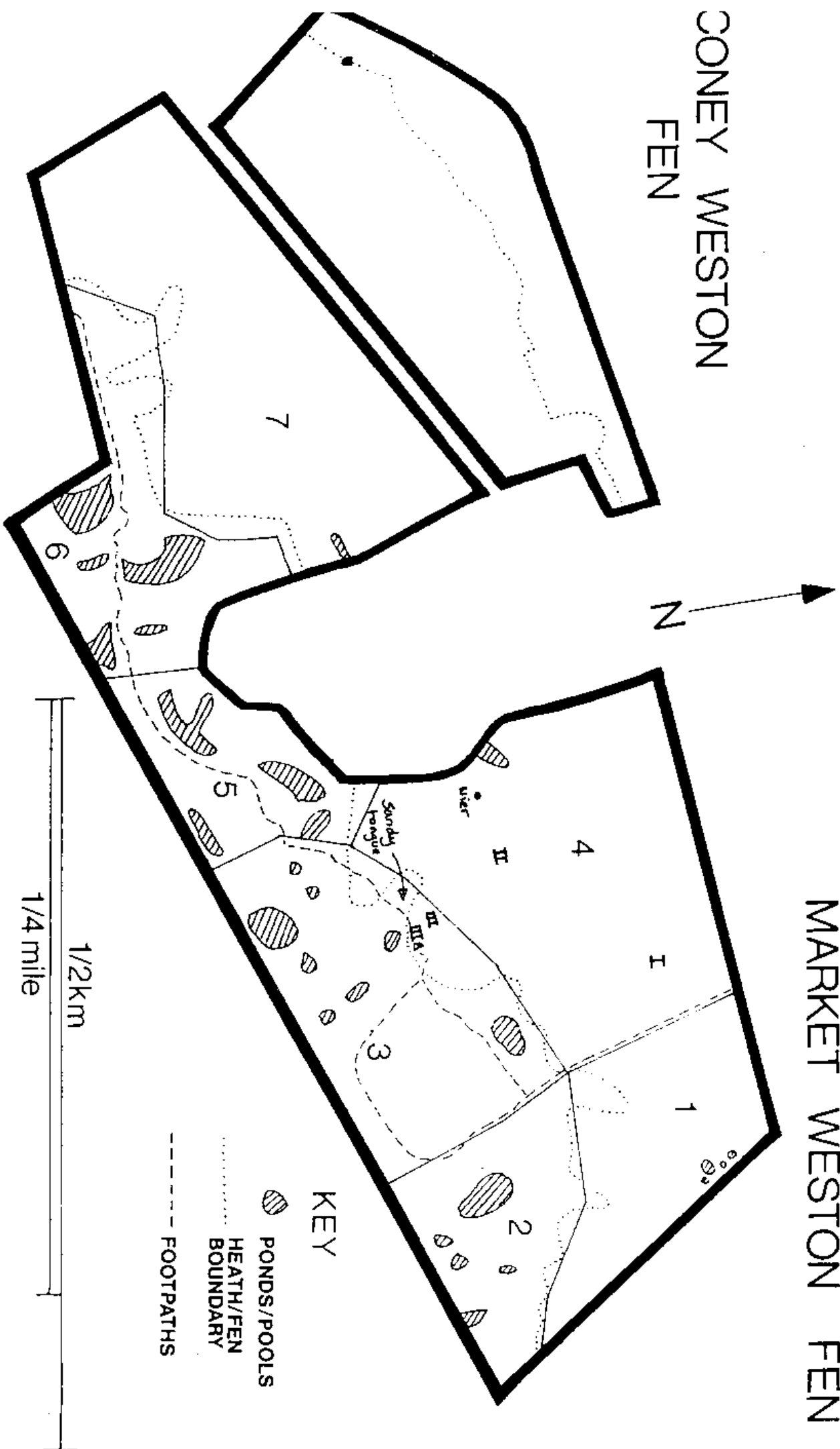
KEY

- FOOTPATH
- COMPARTMENT BOUNDARY
- VEGETATION BOUNDARY



CONEY WESTON
FEN

MARKET WESTON FEN



WF SUFFOLK FEN DATA

Redgrave & Lopham - Repeat of D Bellamy's quadrats (Summer 1991)

Notes of stand characteristics

Area I (M)

Sample plot is located within *Betula-Salix* woodland.* Approximately 60% tree cover and 3m high. The remainder is relatively open with much: *J. subnodulosus*, *C. palustre* and *P. australis*. Locally, *C. canescens* and *C. mariscus* are found. The ground is firm and water table below the surface.

*Tree cover cleared winter 1991/92.

Area II

This plot is located between the *Schoenus* and Heath. Last year birch was cleared and now ^{there} is much: *P. australis*, *C. canescens* with *E. cannabinum* and *U. dioica*. Locally *Myrica* is important. The ground surface is dry and there is much litter.

Area IIa

This area is dominated by tall, dense *P. australis* and approx 3% *Betula*. There is patchy *Senecio sylvaticus* and *E. cannabinum*, some *H. lupulus* and scattered *D. carthusiana*. The ground is very uneven and soft (as if structureless). There is virtually 100% litter cover.

Areas III and IV were recorded in 1990 and notes of characteristics were not taken. Both are 'heathy' areas with *Betula* colonisation. In 1992 the Birch was cleared from both areas.

Wanda Fojt
Fens & Bogs

Mike Harding
SWT

5 May 1992

Redgrave Area I

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2732	<i>Juncus subnodulosus</i>	8	50	35		30	80	20	10	40		90	60	10	20	10	30	50	5	5	20
418	<i>Cirsium pedunculatum</i>	15	30	20	45	10	10	85		20	20	5	10	10	5	20	20	10	20	20	10
680	<i>Holcus lanatus</i>		5	4	5	5	60	10		25	3			3	1	1	1		3	3	30
961	<i>Phragmites australis</i>	2	50	10	20	10	10			40	20	5	3	1		2				20	
1268	<i>Solanum dulcamara</i>	65			15	5			25	30			40								
1368	<i>Urtica dioica</i>	5	15											2		1					
2607	Betula seedling							5						5						5	3
522	<i>Epilobium montanum</i>			2	2			2													
637	<i>Glechoma hederacea</i>		2	1	2																
2716	Salix seedling					2			30			1									
1241	<i>Semecio sylvaticus</i>				2																
269	<i>Calamagrostis canescens</i>				2	40				25	1										
1136	<i>Rubus fruticosus</i>																				
1376	<i>Campylopus introflexus</i>										10										
1519	<i>Brachyotum caeruleum</i>										5										
1766	<i>Hypnum cupressiforme</i>							2												2	
1481	<i>Autocornium androgynum</i>							2												1	
813	<i>Lycium flax-cuculi</i>																				
1794	<i>Mniium hornum</i>							2			20										
2167	<i>Lophocolea bidentata</i>										10										
419	<i>Cirsium vulgare</i>										3		15								
1677	<i>Eryngium prostratum</i>																				
420	<i>Cladium mariscus</i>														1	20					
538	<i>Eupatorium cannabinum</i>																				
384	<i>Cerastium fontanum</i>																				
1884	<i>Polygonum nutans</i>																				
1272	<i>Sonchus asperula</i>																				
1780	<i>Amblystegium riparium</i>																				
	% Bare	5	5	10	15	0	0	60	0	0	10	0	3	3	0	0	0	0	0	0	0
	% Litter	100	80	70	60	100	100	50	100	100	70	100	90	80	100	100	40	95	75	95	90
	x ht veg cm	40	100	60	75	40	60	65	60	50	85	30	25	80	40	30	100	20	140	150	30

Redgrave Area II

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
961	<i>Phragmites australis</i>	70	80	80	25	30	25	50	30	39	30	10	5	10	15	15	5	10	15	5	3	
269	<i>Calamagrostis canescens</i>	50	15	60	60	60	20	75	25	15	55	20	10	50	40	40	50	25	5	20	40	
538	<i>Eupatorium cannabinum</i>	5	5	10	10	10		15		2		20		30	5	5	10	20	5		10	
1368	<i>Urtica dioica</i>	20	2	10	90	5		2			5						30	5	3			
605	<i>Galium aparine</i>	2	5	5	5							1		1		1		1	1		1	
418	<i>Cirsium palustre</i>	2		5				5				15				3		5	1		5	
884	<i>Myosotis arvensis</i>	2	100	5	12																	
420	<i>Cladium mariscus</i>														5	5			85			
612	<i>Galium uliginosum</i>							3														
876	<i>Molinia caerulea</i>								5													
1272	<i>Senecio asperula</i>																					
680	<i>Holcus lanatus</i>											1	1									
1677	<i>Eurychium proterugum</i>																20					
415	<i>Cirsium arvense</i>																		1			
1095	<i>Ranunculus repens</i>																		1			
2607	<i>Betula seedling</i>																					
	% Bare	0	0	0	85	30	0	60	0	0	0	30	20	3	0	5	0	20	5	10	10	
	% Litter x ht veg cm	100	15	100	15	70	100	40	100	100	100	60	80	95	60	20	20	80	20	90	90	
		70	75	50	40	30	20	70	50	20	40	100	60	100	100	80	100	100	100	80	80	60

Redgrave Area Ila

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
961	<i>Phragmites australis</i>	50	80	100	80	80	30	75	40	60	90	60	40	90	5	80	80	80	80	70	30
605	<i>Gallium aparine</i>	5	30		5	15		10	10			1	20		1	1		5	15	15	2
1677	<i>Eurychium prostratum</i>	2	5	2	10			5	5	2					50				1	1	30
1241	<i>Senecio sylvaticus</i>		10	2				2	35	20	10	1			20	60			20		10
2835	<i>Dryopteris carthusiana</i>		2									1			40				1		
1766	<i>Hypnum cupressiforme</i>														5	5					
1368	<i>Urtica dioica</i>					2									5						
876	<i>Molinia caerulea</i>											1			5						5
2607	<i>Berula seedling</i>					2									5						
391	<i>Epilobium angustifolium</i>						90														
688	<i>Humulus lupulus</i>																				
2170	<i>Lophocolea heterophylla</i>											1									
1576	<i>Campylopus introflexus</i>											1									
1272	<i>Sonchus asperula</i>											1	10								
418	<i>Cirsium palustre</i>																				
538	<i>Eupatorium cannabinum</i>																				
2716	<i>Salix seedling</i>															10					
1268	<i>Solanum dulcamara</i>															5					
680	<i>Holcus lanatus</i>																	5			
	% Bare	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	% Litter	100	100	100	100	100	100	100	100	100	100	100	100	100	60	90	100	100	100	100	100
	x ht veg cm	200	200	200	200	200	150	150	150	200	200	250	250	200	180	240	220	250	200	230	160

Rodgrave Area III

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
876	<i>Molinia caerulea</i>	25	4	4	5	4	5	2	1	5	1	3	4	2	5	3	5	5	2	5	5
418	<i>Cirsium palustre</i>	1	1	1	1	1	1	1	1	1	+	+	1	1	1	2	1	1	2	1	1
961	<i>Phragmites australis</i>	1	1	1	1	1	1	1	1	1	+	+	1	1	+	+	1	1	+	+	+
1305	<i>Succisa pratensis</i>	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1
558	<i>Eupatorium cannabinum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	+	1	1	1
2732	<i>Juncus subnodulosus</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	+	1	1	1
1046	<i>Potentilla erecta</i>	1	+	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
2604	<i>Betula pubescens</i>	1	+	3	2	2	5	5	5	1	1	1	2	1	+	1	1	1	1	2	2
994	<i>Polygonum verhyllifolia</i>	1	+	+	1	1	+	+	+	+	+	1	+	+	1	1	1	+	1	1	1
612	<i>Galium uliginosum</i>	1	+	+	1	1	1	1	1	1	1	1	+	+	1	1	1	+	1	1	1
1380	<i>Valeriana dioica</i>	+	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
576	<i>Festuca rubra</i>	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
339	<i>Carex panicea</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	2	2
167	<i>Angelica sylvestris</i>	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
371	<i>Centaurea nigra</i>	1	+	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
574	<i>Festuca ovina</i>	1	+	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1876	<i>Campylopus introflexus</i>	1	+	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
391	<i>Epilobium angustifolium</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
384	<i>Cerastium fontanum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
344	<i>Carex ? pilulifera</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1914	<i>Pseudoscleropodium purum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
786	<i>Linum catharticum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2714	<i>Cirsium dissectum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2628	<i>Quercus seedling</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1445	<i>Callitregon cuspidatum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1600	<i>Clematis mollisicum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1894	<i>Polygonichum juniperinum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1298	<i>Stellaria media</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1136	<i>Rubus fruticosus</i> n.g.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
680	<i>Holcus lanatus</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1519	<i>Brachythecium rutabulum</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	% Base	+	+	+	0	1	1	2	4	1	1	+	1	2	1	1	1	0	1	1	1
	% Litter	4	3	1	5	1	4	4	1	3	2	4	3	3	4	2	2	3	2	5	5

Species in plot but not recorded in quads: *Valeriana officianalis*
Cladium mariscus

not recorded

Redgrave Area IV

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
876	<i>Molinia caerulea</i>	4	1	4	1	5	2	3	5	1	4	2	2	2	4	5	1	5	1	2	1
542	<i>Erica tetralix</i>	1	1	1	4	2	2	1	1	1	1	1	1	2	1	1	2	1	3	1	1
574	<i>Festuca ovina</i>	3	5	1	5	4	4	3	1	2	2	1	3	1	1	3	3	1	4	3	4
961	<i>Phragmites australis</i>	+	1	1	+	1	1	+	1	1	1	+	+	1	1	+	1	1	+	+	1
2604	<i>Betula pubescens</i>	1	1	1	1	1	1	1	1	1	1	3	3	1	1	+	+	+	+	3	1
278	<i>Calluna vulgaris</i>	1	+	1	+	+	+	1	1	1	+	+	1	1	2	1	+	1	+	1	+
1305	<i>Succisa pratensis</i>	1	2	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	1	1
1046	<i>Potentilla erecta</i>	1	1	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	+	1
1914	<i>Pseudoscleropodium purum</i>	1	1	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	+	1
339	<i>Carex panicea</i>	1	1	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	+	1
344	<i>C. pilulifera</i>	1	1	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	+	1
2628	<i>Quercus seedling</i>	1	1	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	+	1
994	<i>Polygala serpyllifolia</i>	1	1	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	+	1
1445	<i>Calliergon cuspidatum</i>	1	1	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	+	1
120	<i>Agrostis canina</i>	1	1	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	+	1
1638	<i>Dicranum scoparium</i>	1	1	1	1	1	1	1	+	1	+	+	2	1	2	1	1	1	+	+	1
	% Bare	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	% Litter	2	1	4	5	4	3	3	3	3	4	1	1	2	2	1	1	2	2	2	1

No extra species recorded

+ Heath area not within birch woodland

Theltham Old Fen - Repeat of D Bellamy's quadrats (Summer 1991)

Notes of stand characteristics

Area I

An area of currently mown fen within an embayment of the 'high ground'. The vegetation is dense, low-growing with *Schoenus*, *Festuca* and a large variety of herbs and mosses. Alder is colonising. There is a deep thatch of litter. NB: *Schoenus* and *Festuca* values are not accurate. The close cut nature of the vegetation led to problems in estimating cover values.

Area II

Tall-herb, unmanaged, fen dominated by *Filipendula* and *Cladium* with *J. subnodulosus*. Colonising alder occupies approx 5% of the area. *Sanguisorba* is present throughout. *Molinia* is relatively frequent but not abundant. The litter layer is thick and moss cover is therefore very limited.

Area IIa

Area of young alder carr with an understorey of *C. acutiformis*, *F. ulmaria* and climbers such as *H. lupulus*. The ground is dry and there is much leaf litter. Some ash seedlings were present.

Area III

The area corresponding to Bellamy's Area III could not be identified with any certainty. Two areas are likely contenders. One is within relatively mature alder woodland with a ground layer of *E. cannabinum* (F), *Phalaris* (F), *C. acutiformis* (F), *F. ulmaria* (F). The other possible location is characterised by relatively open vegetation showing evidence of disturbance from the dumping of river silt. Species seen: *U. dioica* (A); *G. aparine* (A); *Calystegia sepium* (A); *P. australis* (F); *F. ulmaria* (O).

W Fojt
Fens & Bogs

M Harding
SWT

Theltham Old Fen. Area II

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
583	<i>Filipendula ulmaria</i>	95	30	50	80	60	45	45	30	80	30	10	40	10	50	40	20	15	40	3	10
420	<i>Cladium mariscus</i>	10	40	65	10	60	30	35	25	15	40	60	40	40	5	25	25	30	10	10	30
2732	<i>Juncus subnodulosus</i>	2	5	2	3	3	2	2	2	5	4	10	1	1	1	1	5	5	3	2	5
961	<i>Phragmites australis</i>	5	3	3	2	2	4	2	2	2	3	5	1	1	1	1	1	5			1
1192	<i>Sanguisorba officinalis</i>		2	6			6	10	2	8	8	20		2	5	10		1			
1680	<i>Eurynchium speciosum</i>					2								1		5		1	30	15	
831	<i>Lythrum salicaria</i>		3		2	2					6		1					1			
876	<i>Molinia caerulea</i>				1				8				1		20				3	4	
558	<i>Eupatorium cannabinum</i>		3					5					1	1							
302	<i>Carex acutiformis</i>																				
1411	<i>Vicia cracca</i>								3	2	2		1								
1519	<i>Brachythecium rutabulum</i>																				
1046	<i>Potentilla erecta</i>	3			6																
1207	<i>Schoenus nigricans</i>																				
688	<i>Humulus lupulus</i>																				
802	<i>Lotus uliginosus</i>			3																	
371	<i>Centaurea nigra</i>						2														
1305	<i>Succisa pratensis</i>																				
1683	<i>Fissidens adianthoides</i>									1											
1381	<i>Valeriana officinalis</i>																				
1571	<i>Campylidium stellatum</i>																				
339	<i>Carex panicea</i>									5											
323	<i>Carex flacca</i>									1											
	% Bare	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	% Litter	80	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	x ht of veg cm	150	100	100	80	90	80	100	80	80	80	150	140	100	100	130	100	120	100	80	120

Handwritten notes and numbers in the right margin, including a vertical list of numbers 1-20 and a signature 'V. P.' at the bottom right.

Theletham Old Fen. Area IIa

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
302	<i>Carex acutiformis</i>	40	10	10	30	10	10		25	8	4	30	20	40	10	60
583	<i>Filipendula ulmaria</i>		10	30	40	30	75		80	15		15	40	20	10	
1680	<i>Elymus spicatus</i>	10														
1519	<i>Brachythecium rutabulum</i>									20					10	
688	<i>Humulus lupulus</i>	5														
1223	<i>Scutellaria galericularia</i>	3							25							
955	<i>Phalaris arundinacea</i>										10					
1409	<i>Viburnum opulus</i>										10					
1136	<i>Rubus fruticosus</i> agg										10					
961	<i>Phragmites australis</i>										2					
	% Bare	30	20	30	55	30	40	20	30	6	10	3	10	15	5	10
	% Litter x ht of ground flora cm	70	80	70	45	70	60	80	70	80	80	45	85	70	80	70
		40	50	50	50	40	35	15	50	70	60	15	50	20	35	80

Cover f
 20.5 / 93
 34.3 / 80
 1.5 / 0.13
 2.1 / 0.13
 0.35 / 0.06
 0.2 / 0.06
 1.67 / 0.06
 0.33 / 0.06
 0.33 / 0.06
 0.13 / 0.06

9.4

5 3 3 3 3 3 4 3 3 2 4 4 5 3 3 3 4 2

N=50

Beneath a canopy of Alder

0.26
 0.16
 0.24
 0.19
 0.17

Market Weston Fen - Repeat of D Bellamy's quadrats (Summer 1991)

Notes of stand characteristics.

Area I

An area of tall-herb fen (approx 2m high) comprising a mixture of: *Cladium*; *Phragmites*, *J. subnod.*, *E. cannab.*, *Mentha* and much *Berula*. Mosses (mainly *Brachythecium/Eurynchium* are localised. Litter covers some 50-70% of the area, and there are also some bare areas.

The plot appears to cross two vegetation types. Towards the river taller herb fen is found with much *Phragmites*, *Epilobium hirsutum* and *Valeriana officianalis*. Towards the sandy tongue *Cladium*, *J. subnod* with some *Molinia* are more characteristic.

The water table level was below the surface (drought year) and the ground was firm.

In general, there is only limited scrub invasion (*Alnus* and *Salix*).

Area II

Located 25m directly from the weir at an angle of 47° to the centre of the plot.

The area is found between the sandy tongue and mature scrub. It is generally flat.

The characteristic species are: *Phragmites*, *Cladium*, *Juncus subnod.* and *M. caerulea*. The vegetation mean height is 1.75 cm, though lower where *Molinia* is found.

Area III - *Cladium* dominated

This area lies close to the sandy tongue.

Cladium is dominant and tall (more than 1m in height). Locally, *C. paniculata* may be found. Birch covers some 10% of the area of the plot. The water table is close to or above the surface of the peat which was firm under-foot.

Location - 26m from birch stool, 33m from centre of ?

Area III^a - *Sphagnum* dominated III a

In the 1950s Bellamy had described Area III to consist of *S. plumulosum* lawn and a *Schoenus* vegetation. The latter was not re-found. The former was re-found but now occurs beneath a "canopy" of *Cladium*, *Phragmites* and scattered birch.

This *Sphagnum*-dominated area is only 25m x 7m in area. It is located very close to the sandy tongue: 15m from large, mature birch, 30m from tongue.

The water table was at or above the surface in the lower part of the plot adjacent to the fen (as opposed to the sandy tongue). The *Sphagnum* is then replaced by a vegetation type characterised by the quadrat below.

2 x 2m quadrat (Domin)

<i>P. australis</i>	4
<i>E. cannabinum</i>	5
<i>J. subnodulosus</i>	10
<i>C. palustre</i>	2
<i>Epilobium palustre</i>	3
<i>Hentha quatica</i>	4
<i>Lychnis flos-cuculi</i>	2
<i>E. hirsutum</i>	6
<i>G. uliginosum</i>	3
<i>Equ. palustre</i>	1

x ht veg	1.0
Water table	< surface
% cover litter	100

W Fojt
Fens & Bogs

Mike Harding
SWT

Market Weston. Area I

NVC	Quadra No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
461	<i>Phragmites australis</i>	20		60	15	60	90	10	20	30	20	90	75	20	10	70	10	40	30	2	30
855	<i>Mentha aquatica</i>	5		5		40	40	25	10	20	10	20		10	5	3	5	5	4		30
2732	<i>Juncus subnodulosus</i>																				
420	<i>Cladium mariscus</i>		50	40	80								15	40	20		50	20	5	60	60
232	<i>Betula erecta</i>	5		5	5	50	40	2	4	10	5	40	30	5	5	20	1	5	5	1	1
612	<i>Galium uliginosum</i>	+		5	5			4	30	5	2			5	1	1		4	2	4	1
1680	<i>Eurynchium speciosum</i>	20		25									2		30				1		
295	<i>Cardamine pratensis</i>	5		20	50								5				3				5
538	<i>Eupatorium cannabinum</i>	+	5	5							10						3				
1381	<i>Valeriana officinalis</i>	2	2	5	8					10			5	4			3	3	4		2
167	<i>Angelica silvestris</i>	+		5								15				5					
122	<i>Agrostis stolonifera</i>																	20			
521	<i>Epilobium hirsutum</i>										10							20			2
609	<i>Galium palastre</i>																				
2256	<i>Riccardia pinguis</i>	4						2							3						5
823	<i>Lycopus europaeus</i>	+																			
1445	<i>Callitregon cuspidatum</i>	70																			
1368	<i>Urtica dioica</i>		5	10	5																2
876	<i>Molinia caerulea</i>				5																
3804	<i>Plantaginium elatum</i>														5						
1219	<i>Scrophularia auriculata</i>														2						
813	<i>Lychnis fls-cuculi</i>														5						
1411	<i>Vicia cracca</i>		1																		
583	<i>Filipendula ulmaria</i>																				
268	<i>Solanum dulcamara</i>																				
802	<i>Lotus uliginosus</i>																				
1571	<i>Campylopus stellatum</i>																				
1519	<i>Brachyotum rutabulum</i>																				
765	<i>Lemna minor</i>																				
1677	<i>Eurynchium praelongum</i>																				
	% Base	0	0	0	0	50	50	0	0	10	0	5	20	0	30	30	20	35	60	20	10
	% Litter x hl veg cm	20	100	100	100	0	20	80	80	60	100	0	2	50	30	30	3	20	60	20	10

Handwritten notes and calculations on the right side of the page, including totals for each column and some illegible scribbles.

Handwritten signature or initials.

21	22	23	24	25
60	30	30	5	3
5	5	20	10	5
	50		5	5
5	5	30	20	20
	4		5	15
				3
				5
				1
5				5
				3
				3
				80
				2
80	50	70	80	5

96
 80
 10 ⁴⁰⁰ 7
 15 32
 15 87
 30 52
 6 36
 2 24
 3 26
 2 24
 1 20
 1 ~~10~~ 16
 1 16
 1 12
 1 12
 0.4 12
 0.4 12
 6 8
 0.6 8
 0.6 8
 0.2 8
 0.1 4
 0.1 4
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Handwritten note: *Handwritten scribble*

Handwritten mark: *G*

Handwritten numbers: *4 5 3 5 12*

Market Weston. Area II

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
420	<i>Catidium mariscus</i>	80	80	70	25	80	70	80	50	65	50	50	50	50	20	30	5	1	3	3	5
472	<i>Juncus subnodulosus</i>	5	5	2	15	5	25	5	25	30	20	20	30	30	60	5	30	1	3	3	20
461	<i>Phragmites australis</i>	10	10	35	30	40	30	40	40	20	80	60	50	50	1	3	1	1	3	3	1
876	<i>Molinia caerulea</i>			5	5	20	15	20	20	20			5	1	5	80	40	20	5		30
518	<i>Eupatorium cannabinum</i>		2	30	2								5	1		5	40	5			10
1207	<i>Schoenus nigricans</i>						40		5		20		5			15	5	10	20		
612	<i>Galium uliginosum</i>								2				2				5	1	1		
1136	<i>Rubus fruticosus</i> agg.			5				10	2								5	3			1
1445	<i>Callitriche cuspidatum</i>																5	5			
1677	<i>Eurychordum procelangium</i>																5	5			
1914	<i>Pseudoscleropodium purum</i>								5								10	5			
1046	<i>Potentilla erecta</i>															40	5	5			
1305	<i>Succisa pratensis</i>			5													5	5			
167	<i>Angelica sylvestris</i>							4	4								5	5			
1571	<i>Campylichium arvense</i>																5	5			
2167	<i>Lophoxalea bidentata</i>																1	5			
1804	<i>Plagiomonium ellipticum</i>																10				
2254	<i>Riccardia multifida</i>								2									5			
1940	<i>Rhytidadelphus squarrosus</i>								2												
855	<i>Mentha aquatica</i>								2												
1380	<i>Valeriana dioica</i>								2												
1807	<i>Plagiomonium undulatum</i>																			20	
	% Bare	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	% Litter x 10 veg cm	100	100	100	100	100	100	100	100	100	100	100	100	90	100	90	80	75	95	90	95

Additional species within 10 x 10 but not recorded in quadrats

Lotus uliginosus
Carex panicea

4 10
19 13
13 6
1 20
1 20
2 15
1 15
0.5
0.3
0.4
0.1
0.1
0.1
0.1
0.1
0.1
0.1

5
6
7
8
9
10
11
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15
16
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18
19
20

Market Weston. Area III *Sphagnum* area

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10
1973	<i>Sphagnum subnitens</i>	50	20	25	5	95	30	80	50	30	60
420	<i>Cladium mariscus</i>	80	65	95	80	90	20	60	60	10	20
961	<i>Phragmites australis</i>	4	2	5		2	3	1	5	5	5
1380	<i>Valeriana dioica</i>			10			20	1	5	5	5
2732	<i>Juncus subnodulosus</i>			2			5	5	5	20	5
535	<i>Equisetum palustre</i>	4	2		2				5	5	
855	<i>Meniha aquatica</i>	2	2						5		
558	<i>Eupatorium cannabinum</i>										
232	<i>Berula erecta</i>							5	4		
317	<i>Carex disticha</i>					2					
1482	<i>Aulacomnium palustre</i>						1				
1046	<i>Potentilla erecta</i>										5
525	<i>Epilobium palustre</i>									3	
1519	<i>Brachythecium rutabulum</i>									5	
320	<i>Carex elata</i>							20		5	
340	<i>Carex paniculata</i>							5			
1381	<i>Valeriana officinalis</i>										
765	<i>Lemna minor</i>							5	20		
	% Bare	0	0	0	0	0	10	10	10	10	0
	% Litter	100	100	70	100	50	70	20	40	5	20
	x ht veg cm			<	<	<	50	120	100	100	100
	ht of water above (✓) surface cm	✓	0	<	<	<	0	0	3	5	5

44 100
52 15
27 80
4 50
4 50
2 60
1 30
0.4 20
1 20
0.2 10
0.1 10
0.5 10
5.3 10
0.2 10
0.5 10
2 10
0.4 10
2 10

Additional species within 10 x 10 but not recorded in quadrats: *Plagiommium ellatum*, *Lophocolea bidentata*, *Caltha palustris*, *Cirsium palustre*, *Angelica sylvestris*, *Gallium uliginosum*, *Betula pubescens*, *Lotus uliginosus*, *Succisa pratensis*.

Water below surface

Market Weston. Area III. *Cladium* dominated

NVC	Quadrat No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2732	<i>Juncus subnodulosus</i>	4	20	5	20	30	15	50	50	5	40	10	50	90	40	20	20	20	15	30	50
961	<i>Phragmites australis</i>	2	15	10	10	40	2	10	10	2	40	80	1	5	2	1	2	1	60	10	10
420	<i>Cladium mariscus</i>	5	60	95	70	25	95	20	45	40	40	5	20	5	40	20	30	10	10	40	5
232	<i>Betula erecta</i>	2	5	5	10	25	2	50	50	10	2	20	5	5	2	2	2	10	10	10	10
855	<i>Mentha aquatica</i>	10	2	5	10	15	5	30	30	15	15	5	3	3	5	5	5	3	3	10	3
521	<i>Epilobium hirsutum</i>		40		10	5	5	5		35	40	5	10	1	5	5	10	5	5		
558	<i>Eupatorium cannabinum</i>		5	5	15	15	10	25		2											
535	<i>Equisetum palustre</i>		5	5	2	2	2	2													
340	<i>Carex paniculata</i>	90	20		2	10			50												
1445	<i>Calliergon cuspidatum</i>																				
2167	<i>Lophocolea bidentata</i>	2											3	1		2	3	5	3		
1571	<i>Campylium stellatum</i>												1	1		1	3	5	2		
1519	<i>Brachythecium rutabulum</i>											2									
1914	<i>Pseudoscleropodium purum</i>	25											1								10
1046	<i>Potentilla erecta</i>	80																			
1381	<i>Valeriana officinalis</i>	20		10																	
1411	<i>Vicicia cracca</i>																				
765	<i>Lotus minor</i>							50													
802	<i>Lotus uliginosus</i>																				
1677	<i>Eurychium proclongum</i>															1	1	2			
612	<i>Galium uliginosum</i>				30																
1973	<i>Sphagnum subinsens</i>																				
	% Bare	0	0	0	0	0	0	0	0	0	0	80	50	0	0	20	40	5	20	0	10
	% Litter	100	100	100	60	90	80	100	60	100	100	5	30	70	95	60	60	80	30	100	60
	A ht veg cm											150	100	140	120	140	130	60	180	150	100
	ht of water above (✓) surface cm	0	0	0	✓	✓	✓	✓	✓	0	0	2	3	4	1	2	0	2	4	1	2

Additional species within 10 x 10 but not recorded in quadrats: *Caltha palustris*, *Rubus fruticosus* agg., *Betula pubescens*.