

Weald Meadows Initiative 2004 – 2006

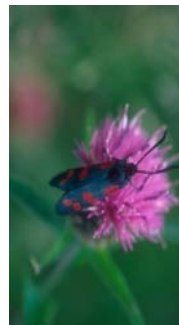
Feasibility Study Appendices



Action for valued grassland now and for the future



August 2006



Produced by Dawn Brickwood on behalf of the Weald Meadows Initiative 2004 – 2006

Appendix 1: Soil Sample Results Scan





0200

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Soil Nutrient Laboratory Report

Batch no: 02210808

Date received: 5 April 2004

Sample type: 2 Agricultural Soil

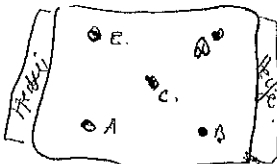
Sample date: 4 April 2004

Table with 7 columns: Determination, pH, Texture, Lime requirement (Arable/Grass), Phosphorus (index), Potassium (index), Magnesium (index). Includes units and method references.

Lab. sample no.
Your reference

Main data table with 9 columns: Lab. sample no., Your reference, pH, Texture, Lime requirement (Arable/Grass), Phosphorus (index), Potassium (index), Magnesium (index), and handwritten notes (e.g., 'Avoid', 'good', 'OK').

Handwritten note: F. Headon's garden



* indicates that this determination is not included in the UKAS accreditation schedule for our laboratory.
† opinions and interpretations expressed herein are outside the scope of the UKAS accreditation schedule for our laboratory.
‡ all results are expressed on the basis of an 'air dried' sample.

For further information please contact your consultant Mr A Scott. Telephone 01902 743222.

Signed: Keith Way
Senior Consultant

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Laboratory Report

Batch number : 02210808 Work code : Not supplied Date received : 5 April 2004
 Sample type : Agricultural Soil Sample date : 4 April 2004

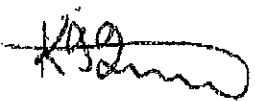
Determination	* Total Nitrogen (Dumas)
Units	% m/m
Basis ¹	100% DM
Method ref.	Z/001

Below 25% Best

Lab sample no Your reference	
24209299 A	0.36 <i>Avoid.</i>
24209300 B	0.32
24209301 C	0.33
24209302 D	0.33
24209303 E	0.30
24209304 F	0.34

* Indicates that this determination is not included in the UKAS accreditation for our laboratory.
¹ unless otherwise stated the results are expressed on an "as received" basis.
² this determination was sub-contracted.

For further information please contact your consultant Mr A Scott. Telephone 01902 743222.

Signed: 
 Keith Way
 Senior Consultant

**Appendix 2 – Randomisation of Layout Phase 1 and Strip
Location of Phase 2**



Weald Meadows Initiative
 Single Species Wildflower Trials
 Appendix 2

WMI Single Species Trial design and details

Located at Great Dixter, Northiam Sussex. TN31 6PH

Map reference: OS Landranger sheet number 188 and grid reference 818251.

Design Phase 1: Plot dimensions: 1.25m x 10.0m (1st Rep has extra metre for herbicide strip check) x 4 replicates
 Each plot has been marked out to allow a 0.75m grass strip between each plot for hand hoeing
 Each replicate has a 1.0m grass strip for allow viewing

Note: A & B measured from front left-hand corner of plot 1 to marked point on fence
 C & D measured from back left-hand corner of plot 31 to marked point on fence

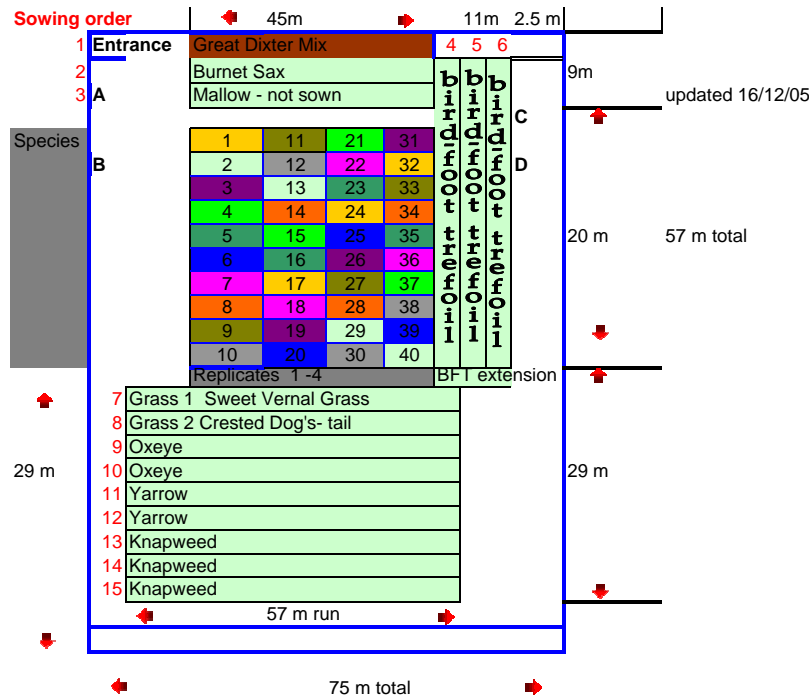
Tie-backs measured from locations:

- A 15m 85cm
- B 16m 76cm
- C 15m 17cm
- D 16m 38cm

Randomisation of Species in Phase 1

Rep 1	1	2	3	4	5	6	7	8	9	10
Spe	First replicate will have the species in List Order, ie 1-10. Sown on 27 October 2004									
Spe	BFT	Oxeye	Knapweed	CDT	SVG	Devil's Yarrow	Burnet	Great D	Mixed Plot - Vetch, Dyers, Musk Mallow	

Strip Sowing in Phase 2 Rows 1 - 15 sow in order area 1 - area 3
 Design Phase 2 Plot dimensions: 2.3 m wide in long rows to fill available area



Phase 2 Species drilled 30 November 2005

area 1 (1-3) = 1.83 x 3 x 45 = 247.05 m²
 Area 2 (4-6) = 1.83 x 3 x 35 = 192m²
 Area 3 (7 - 15) = 1.83 x 9 x 55 = 906 m²
 1298.5 m² potential sowing area

Appendix 3 - Plants Counts Plots 1 - 9 & Species for Plot 10



Weald Meadows Initiative (WMI)
Single Species Wildflower Trials - Feasibility Study
Appendix 3

Appendix 3

WMI Single Species Trials @ Great Dixter

Phase 1 - Plant Establishment Counts on 19 July 2005

Work carried out by Dawn Brickwood, Mat Reece and Andy Hughes and based on 4 observations/plot (mean of)

Phase 1 Plot no	Species	Measuring Reference	Replicate Counts				Mean	Sample Size Adjustment
			1	2	3	4		
1	Bird's-foot Trefoil	No. per metre per row	30	19	36.3	39	31.3	
2	Ox-eyed Daisy	No. per metre per row	24	26	23.5	22	25.5	
3	Knapweed	No. per metre per row	23	19	25.8	23.8	22.9	
4	Crested Dog's-tail	No seed heads per 1/4 m quadrat	89	142	82.8	913	702.2	405m2
5	Sweet Vernal Grass	No seed heads per 1/4 m quadrat	7.3	4.5	7.3	8.5	6.9	27.6m2
6	Devil's-bit Scabious	No. per metre per row	0	0	0	0	0	NO GERMINATION
7	Yarrow	No. per metre per row	22	22	16	24.8	21.1	
8	Burnet Saxifrage	No. per metre per row	20	28	20.3	34.3	25.5	
9	Mixed plot Each species below sown in 1 row across 4 reps:-							
Left	Musk Mallow	No. per metre per row	0	0.5	0.3	0.3	0.3	
Centre	Dyers Greenweed	No. per metre per row	0	0	0	0	0	NO GERMINATION
Right	Meadow Vetchling	No. per metre per row	13	12	14.5	17.8	14.3	
10	Great Dixter mix	DAFOR see sheet 2						

Appendix 3

Plot 10 Dexter Mix		Species recorded 19 July 2005				
Species		Plot number				
<u>Grasses:</u>		10	12	30	38	
<i>Agrostis capillaris</i>	Bent, Common		A	A	A	D
<i>Cynosurus cristatus</i> *	Crested Dogs-tail	R	R	R	R	A
<i>Poa trivialis</i>	Meadow- grass, Rough	A				F
<i>Phleum pratense</i>	Timothy, Large Leaved		R			O
<i>Holcus lanatus</i>	Yorkshire Fog	F	O	F	A	R
	Couch	R	O	F	F	
<u>Wildflower species:</u>						
<i>Ranunculus repens</i>	Buttercup, Creeping	O	R		O	
<i>Trifolium pratense</i>	Clover, Red	O	O	O	R	
<i>Taraxacum officinale</i>	Dandelion			R	R	
<i>Leontodon hispidus</i>	Hawkbit, Rough	R	O	F	O	
<i>Centaurea nigra</i>	Knapweed		F	O	O	
<i>Medicago lupulina</i>	Medick, Black		R			
<i>Cerastium holosteoides</i>	Mouse-ear, Common		R			
<i>Lapsana communis</i>	Nipplewort	R	A	F	F	
<i>Leucanthemum vulgare</i>	Ox-eye Daisy		O			
<i>Anagallis arvensis</i>	Pimpernel, Scarlet	R				
<i>Plantago lanceolata</i>	Plantain, Ribwort		R			
<i>Polygonum persicaria</i>	Redshank	R				
<i>Sonchus arvensis</i>	Sow-thistle		O	F	F	
<i>Cirsium arvense</i>	Thistle		O			
<i>Trifolium dubium</i>	Trefoil, Lesser	R				
<i>Rhinanthus minor</i> *	Yellow Rattle	R				

Key
D Dominant
A Abundant
F Frequent
O Occasional
R Rare

Appendix 4 - Photographs of Trial Development, Machinery, Equipment and Seed Collection



See separate PDF