English School Oct 2015

Cranedale Centre

Sand Dune Succession

Section Length (m)	5.60	1.35	5.6	10.31	3.30	11.26	8.93							
Angle (°)	+13	+30	+3	-5	+1	+19	+25							

QUADRAT NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Distance on Transect (m)		0														
Soil Moisture (1-8)	1	0	0	0	0	0	8.9	0.2	0.0	2.21	-	7.1				
	2	0	0	0	0	0	5.5	0.1	0.0	1.21	-	0.3				
	3															
	4															
	Mean	0	0	0	0	0	8.4	0.15	0	1.71	0	3.7				
Soil Penetration (cm)	1	12.2	11.7	8.6	7.4	9.4	8.1	7.0	6.5	13.4	5.4	5.6				
	2	12.2	10.7	8.6	7.6	9.5	8.4	7.2	6.4	12.0	7.1	5.4				
	3															
	4															
	Mean	12.2	11.2	8.6												

Max Veg'n Height (cm)	0	21	47	31	87	53	~~14~~ 32	20	14	70					
Bare Ground (% Cover)	100	100	85	60	60	~~40~~	~~97~~ 60	52	97	40					

Sweet Violet

Plant Abundance (% Cover) Lichen

Name: Atriplex	0	0	0	0	0	0	0	0	2	0					
Moss	~~0~~	~~0~~	0	-	0	0	0	40	0	0					
Lyme grass	~~10~~	10	30	~~312~~	15	5	15	5	2	2					
Colts foot			~~30~~	2	20	10	0	0	0	0					
Dandelion				2	0	5	5	5	0	5					
Sea Couch				20	30	~~50~~ 40	0	10	0	0					
~~Colts foot~~ Sedge					~~10~~	~~20~~	0	0	0	10					
Horse radish						1	0	0	0	0					
Rib wort Plantain						5	10	0	0	15					
~~Bramble~~ ~~Spear thistle~~						5	0	0	0	0					
Poa						0	10	0	0	10	40				
Number of Species												5			

Horsetail 5

Location on transect (m)	0	20	38
Colour Smear (5 cm depth)			
Soil pH	8	7.5	7

Builder up 30

Sabby, Megan, Georgia

Cranedale Centre

Sand Dune Succession

121.45m

Section Length (m)	1.41	1.6	1.72	2.63	12	4.47	8.82	1.4	0.80	1.32	2.45	2.63	2.35	1.19	1,84	2.
Angle (°)	8	11	12	11	10	0	-2	3	2	-5	6	9	21	12	10	17

6.3 / 2

Blow out

soil

QUADRAT NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Distance on Transect (m)		0	3½	7	10½	14	17½	21	24½	28	31½	35	38½	42	45½	49
Soil Moisture (1-8)	1	0	1	1	1	1	3	2	1	1	4	3	3	2		
	2	0	1	1	1	1	2	1	1	1	4	2	1	5		
	3	1	1	1	1	1	2	2	1	1	2	1	2	8		
	4	1	1	0	1	1	1	2	1	1	2	2	3	7		
	Mean															
Soil Penetration (cm)	1	9½	13	9.1	8	7.2	6.2	5	9.8	12	10	8	12	3½		
	2	10	9	10.5	7.7	7.6	4	5	7.3	11	10½	12.3	11	2		
	3	11½	8.2	9	7	5.5	8.2	5.5	8.5	12	9½	10½	10	3		
	4	12½	9.8	6.8	8	7.5	4.5	6	9.5	12	10½	10	11	5		
	Mean															

Max Veg'n Height (cm)	0	31	48	39	61	32	18	17	58	56½	57	26	4		
Bare Ground (% Cover)	100	70	60	80	30	10	20	30	60	40	20	20	10		

Plant Abundance (% Cover)

Name: Common meadow grass						20	10			50	60	80			
Lyme grass		30	70	30	80	50	20	30	70						
sea couch			40	20	40										
Colts foot				40											
Ribwort Plantain						30	10				50				
Moss star							80	70							
Rough Hawkbit							20	20	20						
cow Parsley									10	20	30				
Creeping Cinquefoil										10	30				
Silverweed												30			
Yarrow													40		
Number of Species													20		

grass

Location on transect (m)	0	24½	42
Colour Smear (5 cm depth)			
Soil pH	8.0	7.0	7.5

Jess Harris Natalie Rebecca Davis

Cranedale Centre 46.87

Sand Dune Succession

(75cm)
0.75m/3.m33

Section Length (m)	1m74	2m10	2m33	2m7	1m73	175cm	340m	1m32	2m37	3m16	36	2m2	2m46	2m11	
Angle (°)	9°	20°	15°	4°	8	-5°	-4	14°	19°	22°	20°	19°	25°	27°	

QUADRAT NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Distance on Transect (m)		0	3m50	10.8m	16.5m	14m	17.5m	21m	24.5	28	31.5	35	38.5	42		
Soil Moisture (1-8)	1	0	0.5	0.9	1	1.3	1	2	1.2	0.9	1	1.5	2	0.5	2.5	
	2	0.1	0.7	1	1.2	0.9	0.2	1.5	0.4	0.9	0.5	1.2	4	2	3.5	
	3	0.1	0.5	1	0.2	1.2	1	1	1	0.5	0.7	2.5	4	1	2	
	4	0.1	1	1.3	0.2	0.5	0.9	1	1	1	0.5	2	1.5	5	2	
	Mean															
Soil Penetration (cm)	1	10cm	13cm	10cm	9	8	8.5	2.5	5	13	13	11.5	12	5	9	
	2	11cm	12cm	10.3	8	10.5	7	7	5	9	11	10.5	13	8.5	10	
	3	12cm	10.5	10.5	8	7.8	6	6	2.1	10.2	11	0.5	15	7.5	9	
	4	13cm	11	9	7	9.4	6	6.5	4.6	9.6	13	7	11.5	7.5	10	
	Mean															

														78		
Max Veg'n Height (cm)	0	69	32	50cm	40cm	44cm	71cm	0	27	6	10	25	0	7		
Bare Ground (% Cover)	100%	45%	65	21%	35%	24%	20%	35%	65%	99%	80%	90%	0	0		

100%
50%

grass
nettle

Plant Abundance (% Cover)

Name:	0%	2	3	4	5	6	7	8	9	10	11	12	13	14	
Lyme Grass	60%	30%	30%	35%		10%	5%	9%	15%	4%, 1%	50%	5%	10%		
Sea couch			15%		10%										
Coltsfoot			10%	25%	75%										
Creeping Cinquefoil						5%									
Yarrow							10%								
Ribwort Plantain							10%	1%	10%						
Moss								15%	25%		2				
Dandelion								10%							
Sea kale								5%				10%			
Number of Species	0	3	3	6	2	3	3	5	5	2	1	2	1		

Rough Hawksbeard 1%

Location on transect (m)	(3)	(2)	(1)
Colour Smear (5 cm depth)			
Soil pH			

Abs Joel

Cranedale Centre

Sand Dune Succession

Charlie Jemma

Section Length (m)	2.10	1.30	1.11	1.35	4.83	6.75	4.90	4.22	1.56	2.53	2.38	1.42	4.95	3.28	2.94	4
Angle (°)	7	23	25	20	1	2	-8	-5	16	4	11	19	25	22	28	2

Distance (Total) of Transect = 47.20m

QUADRAT NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Distance on Transect (m)		0														
Soil Moisture (1-8)	1	0.1	0.5	0.5	0.1	0.2	1	0.5	1.3	2.3	0.4	4	6.5	3.7	5.5	6
	2	1	1.5	1	0.2	0.2	0.1	1	0.1	1.7	0.2	7	4	3	6	7
	3	0.5	0.5	1	0.1	1.5	1	1	1.4	1.4	0.1	5.5	4	2.5	6.7	6.5
	4	0.5	0.5	1	0.2	0.5	0.2	1.5	2.3	1.5	0.1	5	5.5	4	5	4.5
	Mean															
Soil Penetration (cm)	1	11.5	13.2	12	10	14.5	9.4	7.5	6	11.5	13.5	8.4	8.5	13	14.7	12
	2	9.5	12.5	10	9	10.5	6.8	8.5	6.7	8.7	13.3	8.5	6.3	10	12.5	11
	3	8.5	13	8	11	10.5	12	6.5	7	8.5	16	10	10.5	15.3	25.5	10.5
	4	6.5	11.5	8	9.5	10	9.5	9.4	5.7	7.0	14.5	[illegible]	9.5	18.5	13	9
	Mean															

13.2

Max Veg'n Height (cm)	0	54	57	55	54	85.2	64.2	34.7	20	45	32	40	87	12	15
Bare Ground (% Cover)	100%	70%	25%	[illegible]	25	30	[illegible]	25	20	90	[illegible]	0	10	0	0

60% 40% 20 5 60

Plant Abundance (% Cover)

Name: Yarrow											5				
Coltsfoot	[illegible]	3%	20%			30							[illegible]		
Lime grass	[illegible]	2%	[illegible]	70%	80	80	80		5	10	90	80		40	
Bindweed			10%	30%											
sea sandwort				[illegible]	5										
sea couch					5	5					5				
Ribwort Plantain							20						20	40	80
grass								40					50		
common meadowgrass								60					[illegible]		
Dandelion								5	20			20		20	20
moss								[illegible]	30						5
Number of Species															

Location on transect (m)			
Colour Smear (5 cm depth)			
Soil pH	8.0	7.5	7.0

Leicester girls IB/D · A level Sept 11

Cranedale Centre

Sand Dune Succession

Team TIGs.

Section Length (m)	4·97	4·90	11·30	4·40	7·23	9·19									
Angle (°)	+14	+13	−3	+12	+16	+28									

QUADRAT NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Distance on Transect (m)		0	3	6	9	12	15	18	21	24	27	30	33	36	39	42
Soil Moisture (%)	1	7·4	0·1	0·0	8·6	0·7	2·4	1·2	0·0	0·0	0·9	0·0	0·0	7·8	12·0	9·2
	2	9·1	0·2	0·0	0·0	0·0	0·6	0·7	"	0·0	0·0	0·0	0·0	8·9	11·8	4·3
	3	8·0	1·9	0·0	0·0	0·5	1·9	0·4	"	0·8	0·0	9·8	0·0	17·4	4·6	8·2
	4	0·2	7·8	0·0	0·0	3·3	0·10	0·0	"	1·4	0·0	0·0	0·0	8·1	12·4	9·1
6.2	Mean	~~2·55~~	2·0	0·0	0·65	1·1	1·23	0·58	0·0							
Soil Compaction (cm)	1	17·0	16·0	12·5	12·5	11·0	12·0	4·8	8·2	7·0	13·0	4·6	6·1	4·4	14·6	6·6
	2	16·4	16·5	13	13·1	15·5	13·5	9·2	8·2	6·8	10·5	7·2	5·3	4·6	13·0	6·4
	3	16·4	16·0	13	13·1	17·0	12·0	8·3	8·6	6·5	8·0	8·5	5·7	7·2	14·8	9·1
	4	15·0	17·0	12·5	12·7	14·5	12·4	9·6	8·6	6·5	11·0	4·4	9·2	11·2	3·0	6·0
	Mean	16·2	16·4	12·8	~~0·15~~	14·5	12·7	8·0	8·4							

12·85

Max Veg'n Height (cm)	0	0	10·5	10·5	23·5	68·0	41	7·0	9·2	5·6	12·3	7·3	71	50	224
Bare Ground (% Cover)	100	100	60	80	80	5	27	90	90	95	60	70	0	0	0

Plant Abundance (% Cover)

Name:	0	0													
Coltsfoot			20	3	8	65									
Sea Sandwort			8												
Sea Couch			3		6	30	10	5	4	2		10			
Dandelion			1				8		15						
Lyme Grass				5	6	30	23	3	2	7	20	8			
Rough Hawkbit							2				12	5			
Ribwort Plantain							2								40
Common Meadow Grass							79		70		5	10	100	100	100
Ragwort									4						
Starmoss											6				
Number of Species	0	0	4	2	20	3	6	2	5	2	3		2		

5 20 SAN

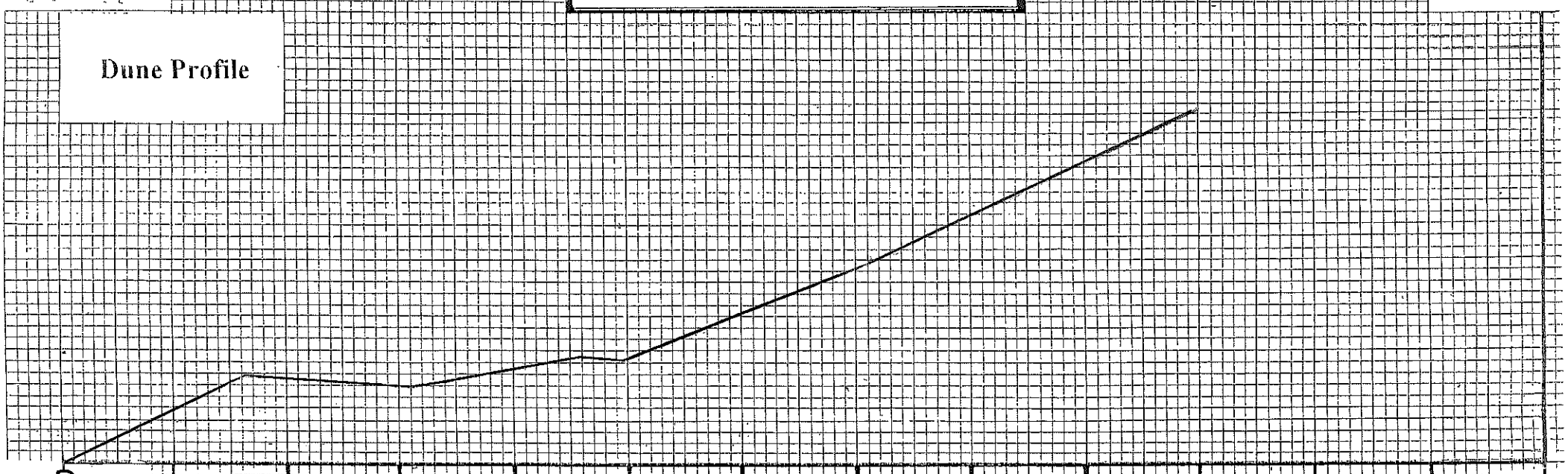
Bindweed

Location on transect (m)	0	21	42
Colour Smear (5 cm depth)			
Soil pH	7·0	7·5	7·5

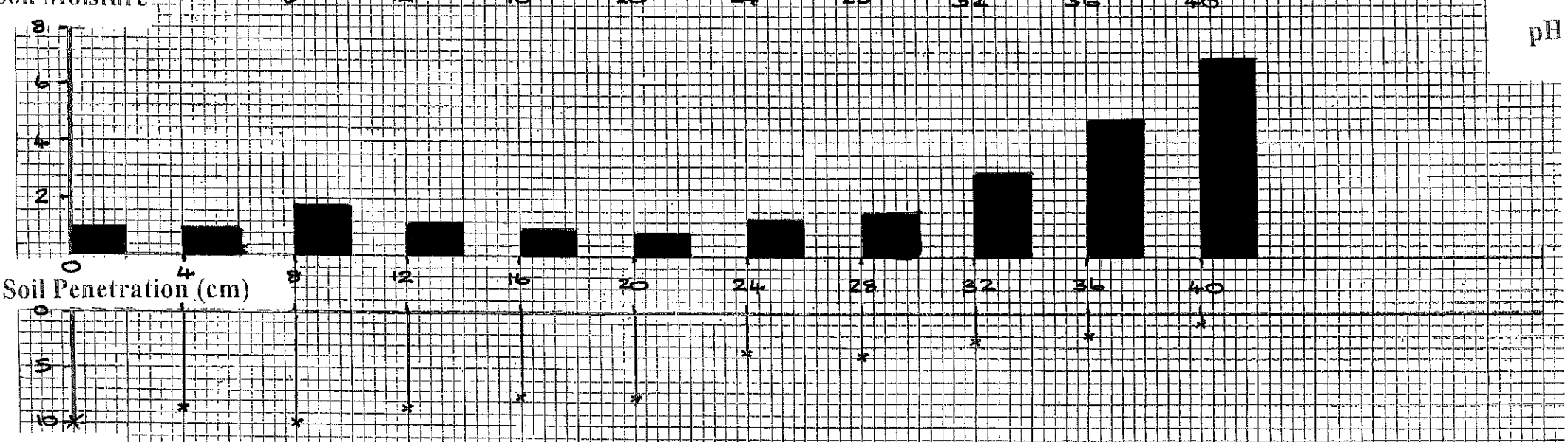
Cranedale Centre

SAND DUNE SUCCESSION

Dune Profile

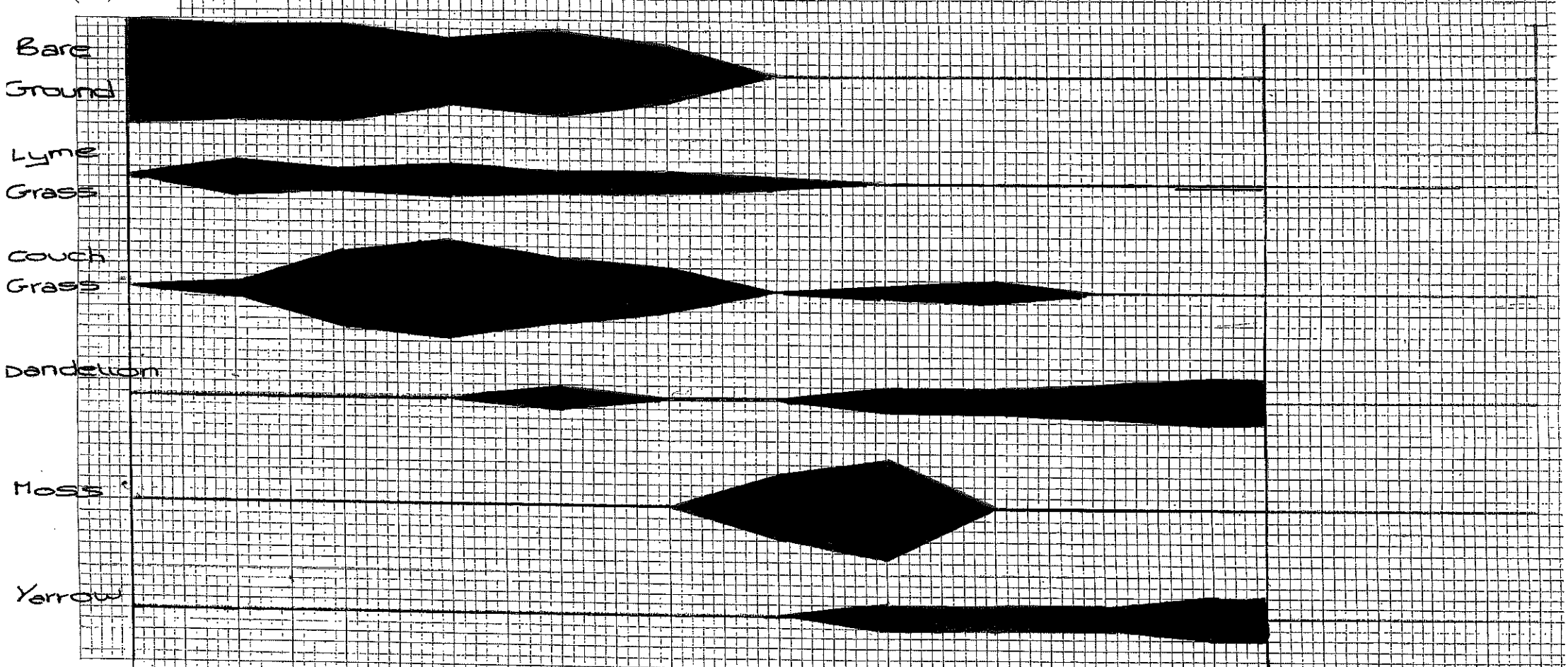


Soil Moisture

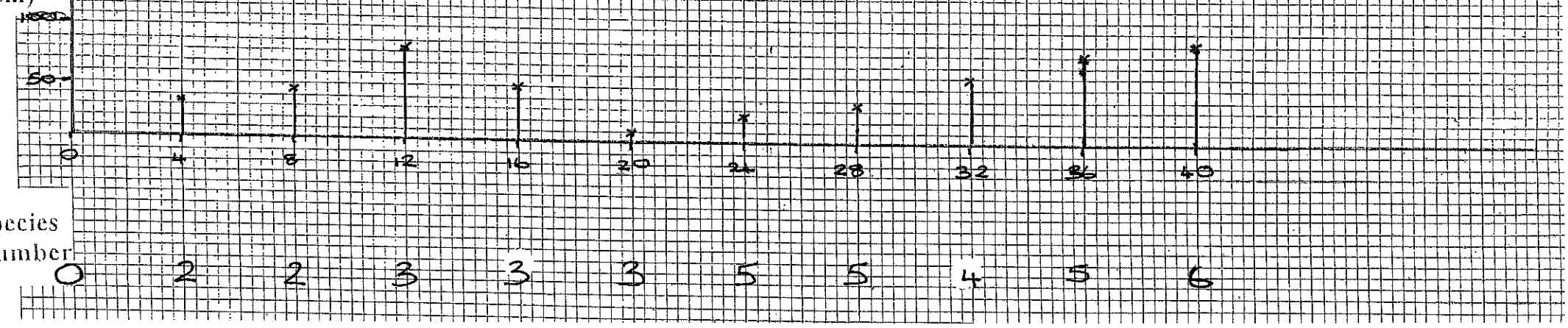


Soil Penetration (cm)

Vegetation (%)



Plant Height (cm)



Species Number

0 2 2 3 3 3 5 5 4 5 6