A1

NEW FOREST DISTRICT LOCAL PLAN Objector Site 1 Land at Pinetops Nursery, Lymington, Hampshire Agricultural Land Classification ALC Map & Report

February 1997

Resource Planning Team Eastern Region FRCA, Reading

RPT Job Number1508/16/97MAFF ReferenceEL 15/00315LURET Job Number02768

AGRICULTURAL LAND CLASSIFICATION REPORT

NEW FOREST DISTRICT LOCAL PLAN OBJECTOR SITE 1 LAND AT PINETOPS NURSERY

INTRODUCTION

1 This report presents the findings of a detailed Agricultural Land Classification (ALC) survey on approximately 24 hectares of land at Pinetops Nurseries Upper Pennington near Lymington in Hampshire The survey was carried out during February 1997

2 The survey was commissioned by the Ministry of Agriculture Fisheries and Food (MAFF) from its Land Use Planning Unit in Reading in connection with the New Forest District Local Plan The results of this survey supersede any previous ALC information for this land

3 Prior to 1st April 1997 the work was conducted by members of the Resource Planning Team in the Guildford Statutory Group of ADAS After this date the work was completed by the same team as part of the Farming and Rural Conservation Agency (FRCA) Reading The land has been graded in accordance with the published MAFF ALC guidelines and criteria (MAFF 1988) A description of the ALC grades and subgrades is given in Appendix I

4 At the time of survey all of the agricultural land on this site was under permanent grassland The areas shown as Other Land comprise the nurseries a recreation ground and other agricultural and residential buildings

SUMMARY

5 The findings of the survey are shown on the enclosed ALC map The map has been drawn at a scale of 1 10 000 It is accurate at this scale but any enlargement would be misleading

6 The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1 below

Grade/Other land	Area (hectares)	% surveyed area	% site area
2	79	63 2	34 2
3b	46	36 8	19 9
Other land	10 6	N/A	45 9
Total surveyed area	12 5	100 0	54 1
Total site area	23 1		100 0

Table 1 Area of grades and other land

7 The fieldwork was conducted at an average density of 1 boring per hectare A total of 18 borings and two soil inspection pits were described

8 All of the agricultural land on this site has been classified as best and most versatile Grade 2 (very good quality) to the south west and Subgrade 3a (good quality) to the north east The key limitation is soil droughtiness though a small area of land is also limited by soil wetness

9 The majority of soil profiles comprise medium textured slightly flinty topsoils and upper subsoils over very flinty medium and heavy textured subsoils. In general the soil profiles became impenetrable to a soil auger at moderate depths. However information derived from soil inspection pits showed that a light textured variably stony subsoil continues to depth. In this local climatic regime, the combination of soil textures structures and stone contents slightly reduces the amount of profile available water for crops thus restricting the level and consistency of crop yields. The land is therefore limited to either Subgrade 3a or Grade 2 depending on the amount of stone present in the soil profile. The small valley to the north east of the site is also limited by soil wetness. Here, the profiles are slightly heavier in texture and distinctly wetter due to poor drainage and high groundwater levels. Soils with this degree of soil wetness are likely to limit seed germination and root development. This land has therefore been classified as Subgrade 3a. Isolated patches of slightly poorer quality land may also occur but these are too small to map separately.

FACTORS INFLUENCING ALC GRADE

Climate

10 Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics

11 The key climatic variables used for grading this site are given in Table 2 and were obtained from the published 5km grid datasets using the standard interpolation procedures (Met Office 1989)

12 The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditions

Factor	Units	Va	lues
Grid reference	N/A	SZ 303 957	SZ 312 959
Altitude Accumulated Temperature Average Annual Rainfall Field Capacity Days Moisture Deficit Wheat Moisture Deficit Potatoes	m AOD day°C (Jan June) mm days mm mm	26 1537 826 170 110 105	20 1543 812 168 111 106
Overall climatic grade	N/A	Grade 1	Grade 1

Table 2 Climatic and altitude data

13 The main parameters used in the assessment of an overall climatic limitation are average annual rainfall (AAR) as a measure of overall wetness and accumulated temperature (ATO January to June) as a measure of the relative warmth of a locality

14 The combination of rainfall and temperature at this site mean that there is no overall climatic limitation. However climatic factors can interact with soil properties to influence soil wetness and droughtiness. At this locality the-field capacity day values are relatively high which will have an impact on the assessment of soil wetness. In addition to this the crop adjusted soil moisture deficits are relatively high thus increasing the likelihood of soil droughtiness.

15 Local climatic factors such as frost risk are unlikely to adversely affect agricultural land use on this site However information derived from unpublished Met Office data (1968) suggests that this area could be rather exposed though at the time of survey it was not considered likely to significantly affect the agricultural land quality The site is climatically Grade 1

Site

16 The majority of the land on this site is relatively flat lying between 25-27m AOD However the land a small valley to the north east dips away to just below 25m AOD

17 Gradient microrelief and flooding do not affect land quality in this area

Geology and soils

18 The relevant geological sheet (BGS 1975) maps the entire site as plateau gravel

19 The most recently published soils information for this area (SSEW 1983) maps the Efford 1 soil association across all of the site These soils are described as Well drained fine loamy soils often over gravel associated with similar permeable soils variably affected by groundwater (SSEW 1983)

20 Detailed field examination broadly confirmed the existence of soils similar to those described above as Efford 1 soil association

AGRICULTURAL LAND CLASSIFICATION

The details of the classification of the site are shown on the attached ALC map and the area statistics of each grade are given in Table 1 page 1

The location of the auger borings and pits is shown on the attached sample location map and the details of the soils data are presented in Appendix III

Grade 2

The agricultural land to the south west of the site has been classified as Grade 2 due to a slight soil droughtiness limitation and an occasional soil wetness limitation. These profiles typically comprise very slightly stony (2 5% flints by v/v) medium clay loam topsoils over very slightly to slightly stony (2-15% flint by v/v) upper subsoils of a similar texture At between 50-75cm depth the subsoils become more variable in texture (e.g. medium, heavy or sandy clay loam and occasionally clay) and markedly more stony (20 40% flint by v/v) Most profiles become impenetrable to the soil auger at 60 82cm depth However soil inspection Pits 1 and 2 show that the resource continues to depth with moderately to very stony (43 52% flints by v/v) sandy clay loams medium sandy loams and loamy medium sands The profiles are also moderately well structured throughout In this locally warm and wet climatic regime the overriding limitation is soil droughtiness as the combination of soil textures structures and stone contents acts to reduce the amount of profile available water for plants As a result the level and consistency of crop yields will be slightly affected

Some of these profiles also show signs of slight soil wetness in the form of gleying, which probably results from a minor drainage impedence at depth. Where gleying occurs from the upper subsoil the land has been assigned to Wetness Class II and classified as Grade 2 because wet soils such as these will inhibit seed germination and growth. They can also slightly limit the timing and flexibility of cultivations as trafficking by agricultural machinery and livestock during the wetter months can lead to structural damage

Subgrade 3a

25 The agricultural land in the north east of the site has been classified as Subgrade 3a Most of the soil profiles are similar to those described in paragraph 23 above so there was no need to describe an additional soil pit in this mapping unit. However, they tend be more flinty (30-60% stone by v/v) from shallower depths and subsequently become impenetrable to the soil auger between 45 80cm depth. Information gathered from Pits 1 and 2 again suggests that the soil resource continues to depth. However, the amount of profile available water for crops will be significantly less than in the Grade 2 profiles. This will lead to higher drought stress in crops during the drier months.

Soil profiles in the small valley to the extreme north east of the site are also shallow and flinty and thus suffer slight drought stress in most years However they also experience seasonally high groundwater levels which inhibit crop development and limit the timing and flexibility of cultivations These profiles have therefore been assigned to Wetness Class III and are placed in Subgrade 3a as a result of this degree of soil wetness These profiles are also equally limited by soil droughtiness

> Helen Goode Resource Planning Team Eastern Region FRCA Reading

SOURCES OF REFERENCE

British Geological Survey (1975) Sheet No 330 Lymington 1 50 000 Series Drift Edition BGS London

Ministry of Agriculture Fisheries and Food (1988) Agricultural Land Classification of -England and Wales Revised guidelines and criteria for grading the-quality of agriculturalland MAFF London

Met Office (1989) Climatological Data for Agricultural Land Classification

Met Office Bracknell

Met Office (1968) Unpublished Climatological Data Sheet 180 Met Office Bracknell

Soil Survey of England and Wales (1983) Sheet 6 Soils of South East England SSEW Harpenden.

Soil Survey of England and Wales (1984) Soils and their Use in South East England SSEW Harpenden

DESCRIPTIONS OF THE GRADES AND SUBGRADES

Grade 1 Excellent Quality Agricultural Land

Land with no or very minor limitations to agricultural use A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit soft fruit salad crops and winter harvested vegetables Yields are high and less variable than on land of lower quality

Grade 2 Very Good Quality Agricultural Land

Land with minor limitations which affect crop yield cultivations or harvesting A wide range of agricultural or horticultural crops can usually be grown but on some land of this grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops The level of yield is generally high but may be lower or more variable than Grade 1 land

Grade 3 Good to Moderate Quality Land

Land with moderate limitations which affect the choice of crops the timing and type of cultivation harvesting or the level of yield When more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2

Subgrade 3a Good Quality Agricultural Land

Land capable of consistently producing moderate to high yields of a narrow range of arable crops especially cereals or moderate yields of a wide range of crops including cereals grass oilseed rape potatoes sugar beet and the less demanding horticultural crops

Subgrade 3b Moderate Quality Agricultural Land

Land capable of producing moderate yields of a narrow range of crops principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year

Grade 4 Poor Quality Agricultural Land

Land with severe limitations which significantly restrict the range of crops and/or the level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

Grade 5 Very Poor Quality Agricultural Land

Land with severe limitations which restrict use to permanent pasture or rough grazing except for occasional pioneer forage crops

APPENDIX II

SOIL WETNESS CLASSIFICATION

Definitions of Soil Wetness Classes

Soil wetness is classified according to the depth and duration of waterlogging in the soil profile. Six soil wetness classes are identified and are defined in the table below

Wetness Class	Duration of waterlogging ¹							
I	The soil profile is not wet within 70 cm depth for more than 30 days in most years 2							
ſΙ	The soil profile is wet within 70 cm depth for 31 90 days in most years or if there is no slowly permeable layer within 80 cm depth it is wet within 70 cm for more than 90 days but only wet within 40 cm depth for 30 days in most years							
III	The soil profile is wet within 70 cm depth for 91 180 days in most years or if there is no slowly permeable layer present within 80 cm depth it is wet within 70 cm for more than 180 days but only wet within 40 cm depth for between 31 90 days in most years							
ΙV	The soil profile is wet within 70 cm depth for more than 180 days but not wet within 40 cm depth for more than 210 days in most years or if there is no slowly permeable layer present within 80 cm depth it is wet within 40 cm depth for 91 210 days in most years							
v	The soil profile is wet within 40 cm depth for 211 335 days in most years							
VI	The soil profile is wet within 40 cm depth for more than 335 days in most years							

Assessment of Wetness Class

Soils have been allocated to wetness classes by the interpretation of soil profile characteristics and climatic factors using the methodology described in Agricultural Land Classification of England and Wales Revised guidelines and criteria for grading the quality of agricultural land (MAFF 1988)

¹ The number of days is not necessarily a continuous period

² In most years is defined as more than 10 out of 20 years

APPENDIX III

SOIL DATA

Contents

Sample location map Soil abbreviations - Explanatory Note Soil Pit Descriptions Soil boring descriptions (boring and horizon levels) Database Printout Horizon Level Information

SOIL PROFILE DESCRIPTIONS EXPLANATORY NOTE

Soil pit and auger boring information collected during ALC fieldwork is held on a computer database. This uses notations and abbreviations as set out below

Boring Header Information — - --

- 1 GRID REF national 100 km grid square and 8 figure grid reference
- 2 USE Land use at the time of survey The following abbreviations are used

ARA	Arable	WHT	Wheat	BAR	Barley
CER	Cereals	OAT	Oats	MZE	Maize
OSR	Oilseed rape	BEN	Field Beans	BRA	Brassicae
POT	Potatoes	SBT	Sugar Beet	FCD	Fodder Crops
LIN	Linseed	FRT	Soft and Top Fruit	FLW	Fallow
PGR	Permanent Pasture	eLEY	Ley Grass	RGR	Rough Grazing
SCR	Scrub	CFW	Coniferous Woodland	DCW	Deciduous Wood
HTH	Heathland	BOG	Bog or Marsh	FLW	Fallow
PLO	Ploughed	SAS	Set aside	OTH	Other
HRT	Horticultural Crop	os			

- 3 **GRDNT** Gradient as estimated or measured by a hand-held optical clinometer
- 4 GLEY/SPL Depth in centimetres (cm) to gleying and/or slowly permeable layers
- 5 AP (WHEAT/POTS) Crop adjusted available water capacity
- 6 MB (WHEAT/POTS) Moisture Balance (Crop adjusted AP crop adjusted MD)
- 7 **DRT** Best grade according to soil droughtiness
- 8 If any of the following factors are considered significant Y will be entered in the relevant column

MREL	Microrelief limitation	FLOOD	Flood risk	EROSN	Soil erosion risk
EXP	Exposure limitation	FROST	Frost prone	DIST	Disturbed land
CHEM	Chemical limitation				

9 LIMIT The main limitation to land quality The following abbreviations are used

OC	Overall Climate	AE	Aspect	EX	Exposure
FR	Frost Risk	GR	Gradient	MR	Microrelief
FL	Flood Risk	TX	Topsoil Texture	DP	Soil Depth
СН	Chemical	WE	Wetness	WK	Workability
DR	Drought	ER	Erosion Risk	WD	Soil Wetness/Droughtiness
ST	Topsoil Stonine	SS			

Soil Pits and Auger Borings

1

S	Sand	LS	Loamy Sand	SL	Sandy Loam
SZL	Sandy Silt Loam	CL	Clay Loam	ZCL	Silty Clay Loam
ZL	Silt Loam	SCL	Sandy Clay Loam	С	Clay
SC	Sandy Clay	ZC	Silty Clay	OL	Organic Loam
P	Peat	SP	Sandy Peat	LP	Loamy Peat
PL	Peaty Loam	PS	Peaty Sand	MZ	Marine Light Silts

TEXTURE soil texture classes are denoted by the following abbreviations

For the sand loamy sand sandy loam and sandy silt loam classes the predominant size of sand fraction will be indicated by the use of the following prefixes

- F Fine (more than 66% of the sand less than 0 2mm)
- Μ Medium (less than 66% fine sand and less than 33% coarse sand)
- Coarse (more than 33% of the sand larger than 0 6mm) C

The clay loam and silty clay loam classes will be sub divided according to the clay M Medium (<27% clay) H Heavy (27 35% clay) content

- 2 MOTTLE COL Mottle colour using Munsell notation
- 3 MOTTLE ABUN Mottle abundance expressed as a percentage of the matrix or surface described

F few <2% C common 2 20% M many 20 40% VM very many 40% +

- MOTTLE CONT Mottle contrast 4
 - F faint indistinct mottles evident only on close inspection
 - D distinct mottles are readily seen
 - Р prominent mottling is conspicuous and one of the outstanding features of the horizon
- 5 PED COL Ped face colour using Munsell notation
- GLEY If the soil horizon is gleyed a Y will appear in this column If slightly gleyed 6 an S will appear
- 7 STONE LITH Stone Lithology One of the following is used

HR	all hard rocks and stones	SLST	soft oolitic or dolimitic limestone
СН	chalk	FSST	soft fine grained sandstone
ZR	soft argillaceous or silty rocks	GH	gravel with non porous (hard) stones
MSST	soft medium grained sandstone	GS	gravel with porous (soft) stones
SI	soft weathered igneous/metamo	orphic ro	ck

Stone contents (>2cm >6cm and total) are given in percentages (by volume)

8 **STRUCT** the degree of development size and shape of soil peds are described using the following notation

degree of development	WK weakly developed ST strongly developed	MD moderately developed
ped size	F fine C coarse	M medium VC very coarse
ped shape	 S single grain GR granular SAB sub angular blocky PL platy 	M massive AB angular blocky PR prismatic

9 CONSIST Soil consistence is described using the following notation

L loose VF very friabl	le FR friable FM firm	VM very firm
EM extremely firm	EH extremely hard	

- 10 SUBS STR Subsoil structural condition recorded for the purpose of calculating profile droughtiness G good M moderate P poor
- 11 **POR** Soil porosity If a soil horizon has less than 0.5% biopores >0.5 mm a 'Y will appear in this column
- 12 IMP If the profile is impenetrable to rooting a 'Y' will appear in this column at the appropriate horizon
- 13 SPL Slowly permeable layer If the soil horizon is slowly permeable a Y will appear in this column
- 14 CALC If the soil horizon is calcareous a Y will appear in this column

15 Other notations

- APW available water capacity (in mm) adjusted for wheat
- **APP** available water capacity (in mm) adjusted for potatoes
- MBW moisture balance wheat
- MBP moisture balance potatoes

SOIL PIT DESCRIPTION

Site Name	≥ NEW FOI	REST DLP SI	(TE 1	Pit Number	1	Ρ				
Grid Refe	erence SZ	30909580	Average Anni	ual Rainfall	82	?6 mm				
			Accumulated	Temperature	153	37 degree	days			
			Field Capac	ity Level	170) days				
			Land Use		Per	manent Gr	ass			
			Slope and As	spect		degrees				
HORIZON	TEXTURE	COLOUR	stones >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 33	MCL	10YR42 00) 0	3	HR					
33- 52	MCL	10YR43 00	0 0	5	HR		MDCSA8	FR	м	
52- 68	MCL	10YR54 56	5 0	46	HR		WKCSAB	FR	м	
68- 82	MSL	10YR54 00	0 0	52	HR	С	WKCSAB	FR	G	
82-110	MS	10YR54 64	1 0	20	HR	С		VF	м	
Network (Hotoor Clos							
Methess 6	irage i		Glouines Clas	,s 1 060						
			SPL	No	SPL					
Drought (Grade 2		APW 116mm	MBW	6 mm					
			ADD 103-m	MOD	2 					

MAIN LIMITATION Droughtiness

SOIL PIT DESCRIPTION

Site Na	me NEW	F(DREST DLP	SI	TE 1	Pit Nu	mber	2	P				
Grid Re	ference	Si	230909560		Average Annu Accumulated Field Capaci Land Use Slope and As	al Rain Tempera ty Leve pect	ifall iture il	82 153 170 Per	6 mm 17 degree 1 days manent Gr degrees	days ass			
HORIZON	TEXTU	RE	COLOU	R	STONES >2	TOT ST	ONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 32	MCL		10YR42	00	0	2		HR					
32-43	MCL		10YR42	00	0	2		HR	F	MDCSAB	FR	м	
43- 60	MCL		10YR54	64	0	5		HR	F	MDCSAB	FR	м	
60- 72	HCL		10YR64	00	0	20		HR	С	MDCSAB	FR	м	
72- 80	HCL		10YR63	00	0	43		HR	С	WKCSAB	FR	M	
80- 95	SCL		10YR63	00	0	43		HR	С		FR	м	
95-105	LMS		25Y 63	00	0	43		HR	м		VF	M	
Wetness	Grade	1			Wetness Clas Gleying SPL	S	I 060 (No 3	cm SPL					
Drought	Grade	5			APW 122mm	MBW	1:	2 mm					
					APP 115mm	MBP	10	Umm					
FINAL A	LC GRADE		2										
MAIN LI	MITATION		Droughti	nes	s								

program ALCO12

LIST OF BORINGS HEADERS 02/04/97 NEW FOREST DLP SITE 1 -----

	SAMPI	LE			ASPECT				WETH	VESS	-WH	EAT-	-P0	TS-	м	REL	EROSN	FROST	œ	IEM	ALC	
4	40	GRID	REF	USE		GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	Ð	KP DI	ST	LIMIT		COMMENTS
	1	SZ311	09590	PGR	N	03	028		3	3A	104	-6	104	-1	3A					WD	3A	185 Gravelly
	19	SZ 309	09580	PGR			068		1	1	116	6	103	-2	2					DR	2	Roots to 120cm
	2	SZ312	09590	PGR	Ε	03	028		2	2	083	-27	083	-22	38					DR	3A	I50 Flints
	2P	SZ 309	09560	PGR			-060	_	1 -	1_	122	12	115	10_	2 _			-		DR	2	Roots to 120cm
	3	SZ306	09580	PGR					۱	1	109	-1	113	8	3A					DR	2	180 Flints
_	4	SZ 307	09580	PGR			0	045	3	3A	131	21	112	7	2					WE	3A	
	5	SZ309	09580	PGR					1	1	070	-40	070	-35	38					DR	3A	I45 gravelly
	6	SZ308	09570	PGR	N	01			1	1	091	-19	093	-12	3A					DR	3A	180 Gravelly
	7	SZ303	09570	PGR			050		1	1	117	7	117	12	2					DR	2	182 See 1P
	8	SZ304	09570	PGR					1	1	113	3	116	11	3A					DR	2	180 See 2P
-	9	SZ305	09570	PGR			065		1	1	123	13	116	11	2					DR	2	I90 See 2P
-	10	SZ306	09570	PGR			050		1	1	091	-19	096	-9	3A					DR	3A	I60 Flints
	11	SZ307	09570	PGR			030		2	2	100	-10	104	-1	ЗА					WD	2	178 Gravelly
	12	SZ309	09570	RGR					1	1	079	-31	079	-26	38					DR	3A	ISO See 1P
	13	SZ310	09580	PGR					1	1	093	-17	099	-6	3A					DR	3A	I65 See 1P
	14	SZ305	09560	PGR			045		1	1	106	-4	112	7	3A					DR	2	170 See 2P
	15	SZ 308	09560	RGR					1	1	083	-27	880	-17	38					DR	2	170 See 1P
	16	SZ307	09560	PGR			030		2	2	119	9	104	-1	2					WD	2	Wet 75
	17	SZ309	09560	PGR					1	1	102	-8	112	7	3A					DR	2	170 See 1P
	18	SZ.308	09550	PGR			050		1	1	111	1	115	10	3A					DR	2	I80 See 1P

page 1

program ALCO11

COMPLETE LIST OF PROFILES 02/04/97 NEW FOREST DLP SITE 1

page 1

					OTTLES	S	PED			S	TONE	S	STRUCT/	SUB	S				
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	>2	>6	LIT	I TOT	CONSIST	STR	POR	IMP	SPL	CALC	
1	0-28	mc1	10YR31 00						0	0	HR	2							WT 48cm
	28-48	hc]	10YR61 00	75YR5	3 00 C			v	ő	0	HR	10		м					
	48-60	hc1	10YR61 00	10YR5	B 00 C			Ŷ	ō	0	HR	15		M					
	60-85	mcl	10YR61 00	10YR5	3 00 C			Ŷ	0	0	HR	45		M					Imp Gravelly
10	0_33	~~1	104042 00						•		100	2							
••	32-52	mc]	107842 00						0	0		5		DM					
	52_68	ac 1	107054 56						0	0		ЛС		к п о м					
	69_92		107834 30	100050				F	0	0		40		к m ю л					
	R2_110		107854 64	10163				3 V	0	0	- FK	2C	HILLOAD F	кч					A 4- 120
	02-110	11125	101834 04	TUTKO	5 00 C			Ŧ	v	U	пк	20	v	r m					Assume to 120
2	0-28	mcl	10YR32 00						0	0	HR	2							
	28-50	mcl	10YR62 72	10YR68	3 00 C			Y	0	0	HR	5		м					I Flints/Clay
2P	0-32	ແລງ	10YR42 00						٥	0	HR	2							
	32-43	mcl	10YR42 00	10YR56	5 00 F				0	0	HR	2	MDCSAB F	RM					
	43-60	mcl	10YR54 64	10YR58	3 00 F				ō	0	HR	5	MDCSAB F	RM					
	60-72	hc1	10YR64 00	10YR58	3 00 C			Y	0	0	HR	20	MDCSAB F	RM					
	72-80	hc1	10YR63 00	75YR58	3 00 C			Ŷ	ō	0	HR	43	WKCSAB F	RM					
	80-95	scl	10YR63 00	75YR58	3 00 C			Ŷ	Ō	0	HR	43	F	RM					
	95-105	lms	25Y 63 00	10YR68	8 00 M			Y	0	0	HR	43	v	FM					Assume Roots 120
3	0-30	mcl	10YR41 42						n	n	HP	3							
_	30-55	mcl	10YR42 00	10YR56	5 00 F		DOMNOO O	ń	ň	ň	HR	3		м					
	55-70	mcl	10YR52 00	107856	00 F			•	ົດ	ں م	HR	10		 M					
	70-80	กต่า	10YR52 00	10YR56	00 F				ō	0	HR	35		M					Imp Flints
٨	0-25		257 41 00	107046	00.0			v	~	•	UD	5							
-	25-45	aci bol	251 41 00	101840				T V	0	0	nx uo	2		м					
	45-65		257 51 00	107840				, v	0	۰ ۱	n r	5		D			v		
	65-120	c	25Y 61 00	10YR68	00 M			Ŷ	0	0	HR	5		P			Ŷ		
-	0.00								_	_		_							
5	0-30	mci	104K41 00						0	U	HR	5							
	30-40	mci	10YK43 42	107846	00 F				0	0	HR	10		M					
	40-45	mC I	10YR43 42						Q	0	HR	50		M					Imp Gravelly
6	0-30	mcl	10YR42 00						0	0	HR	5							
	30-45	mcl	10YR43 00	10YR56	00 F				0	0	HR	5		м					
	45-55	mcl	10YR43 00	10YR56	00 F				0	0	HR	20		M					
	55-70	ไตร	10YR44 46						0	0	HR	50		М					
	70-80	ໄພຂ	10YR64 54						0	0	HR	60		м					Imp Gravelly
7	0-35	mcl	10YR42 00						0	0	HR	2							
	35-50	mcl	10YR43 00	75YR58	00 C			S	0	0	HR	2		Μ					
	50-82	wcj	10YR64 00	10YR58	00 C			Y	0	0	HR	2		М					Imp Flints
8	0-30	mcl	10YR42 00						0	0	HR	2							
	30-50	mcl	10YR43 00	75YR58	00 C			S	0	0	HR	2		м					
	50-65	fs1	10YR64 00	75YR58	00 C			Y	0	0	HR	20		м					
	65-80	hc1	10YR64 00	75YR58	00 M			Y	0	0	HR	25		M					Imp Flints

rogram ALCO11

COMPLETE LIST OF PROFILES 02/04/97 NEW FOREST DLP SITE 1

----STONES---- STRUCT/ SUBS ---- MOTTLES----- PED COL ABUN CONT COL GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC MPLE DEPTH TEXTURE COLOUR 0 0 HR 10YR42 00 2 0-35 mcl Q 0 0 HR 2 Μ 35-65 10YR64 00 10YR58 00 F mc1 10YR64 00 75YR58 00 C 0 O HR 2 Μ Y. 65-75 scl ____Y_0 0 HR _____Imp Flints ___ 10YR64 00 75YR58 00 M 10 M 75-90 hc1 _ _ _ 0 0 HR 3 0-30 10YR41 42 10 wcl 0 0 HR 5 M 30-50 nc1 10YR52 53 10YR56 00 F 50-60 10YR52 53 10YR56 00 C DOMNOO OO Y O O HR 20 м Imp Flints mc) 0 0 HR 0-30 10YR41 42 3 11 mcl 10YR53 52 10YR56 00 C Y 0 0 HR 15 М 30-50 mc] 50-75 10YR61 62 10YR66 00 C Y 0 0 HR 25 М mcl I Wet/Gravelly 10YR61 62 10YR66 00 C Y 0 0 HR 52 Ρ 75-78 wc] 0 0 HR 0-30 10YR42 00 5 12 mcl. Imp Flints 0 0 HR 15 М 30~50 hc1 10YR42 44 10YR42 00 0 0 HR 5 0-30 mc1 13 10YR42 43 10YR56 00 F 0 O HR 5 M 30-50 mc1 Imp Flint/Gravel 0 0 HR 10YR43 00 10YR56 00 F 30 М 50-65 mcl 0-35 10YR43 00 0 0 HR 3 mc 1 0 0 HR 5 М 10YR54 00 35-45 wc) 0 0 HR 5 45-65 10YR64 00 75YR58 00 C Y м wc] 10YR64 00 75YR58 00 M 00MIN00 00 Y 0 0 HR 25 Ρ 65-75 С Imp Flints 75-78 10YR64 00 75YR58 00 C Y 0 0 HR 50 м ms l 0-24 10YR32 00 0 0 HR 10 scl 15 24-55 0 0 HR 10 10YR31 00 М scl I Wet/Gravelly 0 0 HR 20 М 55-70 Jms 10YR41 00 10YR42 00 0 0 HR 5 0-30 16 mcl. 10YR53 00 10YR58 00 C Y O O HR 15 Μ 30-50 scl 10YR52 00 10YR58 00 C Y 0 0 HR 10 М 50-75 f zm V Wet 90cm 75-120 ms 10YR52 00 10YR58 00 M Y 0 O HR 5 Μ 0 0 HR 2 D-30 mc1 10YR42 00 17 10YR43 00 0 0 HR 2 М 30-50 mcl 10YR44 54 0 0 HR 5 М 50-65 mc) 10YR54 64 10YR56 00 F Imp Flints O O HR 40 M 65-70 mcl. 0 0 HR **₽-30** 10YR42 00 2 18 mcl O O HR 2 10YR43 00 М 30-50 mc l 50-75 10YR53 00 10YR56 00 C Y 0 O HR 5 M mcl Imp Flints 10YR53 00 10YR56 00 C Y O O HR 40 Μ 75-80 mcl

page 2