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Hampshire Structure Plan Review
Land at Palestine/Grateley
Reconnaissance Survey
Agricultural Land Classification
ALC Map and Report
April 1995

AGRICULTURAL LAND CLASSIFICATION REPORT

HAMPSHIRE STRUCTURE PLAN REVIEW LAND AT PALESTINE/GRATELEY RECONNAISSANCE SURVEY

1 Summary

- 1 1 ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land quality for a number of areas of search in connection with MAFF's input to the Hampshire Structure Plan Review
- 12 The land between Palestine and Grateley comprises 685 hectares of land bounded by Grateley Station in the east Quarley Hill in the north Long Walk plantation in the west and Mount Carmel Road in the south An Agricultural Land Classification (ALC) survey was completed at a reconnaissance level of detail on a free survey basis as it was undertaken primarily to update the 1 63 360 scale provisional ALC map for the area of search Consequently the results are designed for strategic planning purposes only For site specific proposals further more detailed surveys may be required A total of 79 auger borings and 4 soil inspection pits were assessed in accordance with MAFF's revised guidelines and criteria for grading the quality of agricultural land (MAFF 1988) guidelines provide a framework for classifying land according to the extent to which its physical or chemical characteristics impose a long term limitation on its use for agriculture
- The work was carried out by members of the Resource Planning Team in the Guildford Statutory Group of ADAS
- At the time of the survey the majority of the agricultural land was under arable cropping and set aside. The remainder comprised permanent pasture and grassland ley. Urban areas include the private dwellings commercial properties and includes farm buildings adjoining the urban area of Palestine as well as more isolated properties. Woodland is shown as Non agricultural land. About 15% of the area was not surveyed mainly at the request of the owners concerned.
- 1 5 The distribution of grades and subgrades is shown on the attached ALC map and the areas are given in the table 1 overleaf. The map has been drawn at a scale of 1 50 000. It is accurate at this scale but any enlargement would be misleading.
- Appendix 1 gives a general description of the grades and landuse categories identified in this survey. The main classes are described in terms of the type of limitation that can occur the typical cropping range and expected level and consistency of yield.

Table 1 Distribution of Grades and Subgrades

Grade	Area (ha)	% of Site	% of Agricultural Area
2	9	1 3	17
3a	107	15 6	20 6
3b	403	58 9	<u>77 7</u>
Non Agricultural	24	3 5	100% (519 ha)
Urban	37	5 4	
Not Surveyed	<u>105</u>	<u>15 3</u>	
Total area of site	685	100%	

The majority of the agricultural land in this area of search has been classified as moderate quality (Subgrade 3b) Some areas of good quality (Subgrade 3a) land are situated around the north west of the area of search and a small area of very good quality (Grade 2) land has been mapped in the south west corner. The key limitation across the site is soil droughtiness with topsoil stoniness as a limiting factor to a lesser extent.

The soils at this locality are derived from the Upper Chalk and as such comprise variably flinty chalky drift over chalk. In this climatic regime, where the bedrock is encountered immediately below the topsoil or where more than 15% flints greater than 2 cm diameter occur in the topsoil, the land has been assigned to Subgrade 3b on the basis of a significant soil droughtiness and/or topsoil stoniness limitation. In a number of places the soil profiles are less stony and possess an upper subsoil above the chalk. Here the amount of profile available water for crops is slightly higher reducing the risk of soil droughtiness, and consequently this land is assigned to Subgrade 3a. In a small valley feature to the south west corner the profiles are notably deeper over the chalk with fewer flints and chalk fragments. This land has therefore been classified as Grade 2 on the basis of a minor soil droughtiness and topsoil stoniness limitation.

All of the soil units contain occasional individual observations of either better or poorer quality land. However at this mapping scale they were not mapped separately due to their limited number and sporadic extent.

2 Climate

- 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
- The main parameters used in the assessment of an overall climatic limitation are average annual rainfall as a measure of overall wetness and accumulated temperature as a measure of the relative warmth of a locality
- An assessment of the prevailing climate has been made by interpolation from a 5km grid point dataset (Met Office 1989). A representative sample are given in Table 2 and these show that there is no overall climatic limitation. However other factors do interact with soil properties to influence soil wetness and droughtiness.

Due to the comparatively small differences in the climate in the survey area, the specific climatic variable chosen for the purposes of the survey was the median value of those obtained from over 30 separate readings taken over the whole survey area. By constructing an isopleth map for each variable across the site the actual values for each survey point was later established and the grade assessed from this

Table 2 Climatic Interpolations covering the range of data within the Area of Search

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Grid Reference	SU234418	SU250415	SU258421
Altitude (m AOD)	95	110	135
Accumulated Temperature			
(degree days Jan June)	1440	1423	1394
Average Annual Raınfall (mm)	777	796	802
Field Capacity (days)	172	174	175
Moisture Deficit Wheat (mm)	105	103	99
Moisture Deficit Potatoes (mm)	96	93	89
Overall Climatic Grade	1	1	1

No local climatic factors such as significant frost risk or exposure are believed to adversely affect the area of search

3 Relief

The area of search lies between approximately 95 and 135 m AOD. In general the land falls from north east to south west but is dissected by a series of dry valleys which give rise to a gently undulating landscape. South of the railway there is a ridge of higher ground linking Boar Knoll with the main built up area of Palestine. Nowhere in this area do either gradient or altitude affect agricultural land use.

4 Geology and Soil

- The published geological information (BGS 1975 & 1976 1 50 000 scale) shows the entire site to be underlain by the Upper Chalk
- The published soil information (SSEW 1983 & 1984 1 250 000 scale) shows the majority of the site to comprise the Andover 1 soil association with some Carstens association mapped in the south east corner. The Andover 1 association is described as comprising shallow well drained calcareous silty soils over chalk on slopes and crests. Deep calcareous and non calcareous fine silty soils in valley bottoms. Striped soil patterns locally. (SSEW 1983) and the Carstens association are well drained fine silty over clayey fine silty and clayey soils often very flinty (SSEW 1983).
- The reconnaissance survey revealed soils broadly similar to those described in paragraph 4.2 predominantly of the Andover association type. On the crests of

some hills deeper more clayey soils were recorded which may be similar to the Carstens association. However, the change to Carstens soils as mapped by the SSEW (1983) in the south east of the site, was not recorded during field survey work.

5 Agricultural Land Classification

- Table 1 provides the details of the area measurements for each grade and the distribution of each grade is shown on the attached ALC map
- The location of the soil observation points are shown on the attached sample point map

Grade 2

Land of very good quality is limited in extent and occurs over approximately 1% of this area of search on a small rise close to the Hampshire Gap. These soils comprise well drained (Wetness Class I) medium silty clay loam topsoils passing to heavy silty clay loam and clay lower subsoils before the chalk is reached at a depth of 68 cm or more. The total flint content ranges from 5.15% in the topsoil and decreases with depth. In the topsoil flints > 2 cm in diameter were occasionally measured as 8% v/v resulting in a topsoil stoniness limitation. Large flints such as these can slightly restrict crop establishment and cause wear to tyres and agricultural machinery thereby limiting the land to Grade 2. In addition the total stone content and restricted soil depth over the chalk act to reduce the amount of profile available water for plants thus slightly restricting crop growth and yield potential. This land has therefore been assessed as Grade 2 due to a minor soil droughtiness and occasional topsoil stoniness limitation.

Subgrade 3a

5 4 Land of good quality occurs in four isolated units towards the west of the site which in total comprises 15 6% of the total area. The soil profiles comprise well drained (Wetness Class I) medium silty clay loam topsoils over similar or heavier upper subsoils The total stone content in the topsoil measures 8 18% flints which includes 2 11% >2 cm and 2 8% >6 cm in diameter as well as around 5% chalk fragments The upper subsoil overlies the chalk bedrock and contains 5 50% chalk fragments with 5 15% flints As indicated by Pit 4 the chalk generally occurs abruptly at 38 50 cm depth and is relatively hard thus restricting rooting depth to around 70cm and reducing available water capacity. This in combination with the overall stone content leads to a moderate soil droughtiness limitation occasions a topsoil stoniness limitation of equal severity occurs where flints >2 cm in diameter exceed 10% v v This increases production costs by increasing implement and tyre wear and by adversley affecting germination and harvesting Occasional borings of slightly better quality also occur in these mapping units however due to their limited number and distribution they have not been mapped separately

Subgrade 3b

5 5 The majority of this area of search (59 1%) has been assessed as moderate quality land The soils are well drained (Wetness Class I) and shallow over chalk In general the chalk bedrock occurs immediately below the topsoil and is considered to restrict plant rooting due to its hard and compacted nature at this location. Pits 12 and 3 indicate rooting to between 45 65cm depending upon the precise characteristics of the chalk However for the purposes of survey 65cm rooting was used The topsoil is similar in texture to the rest of the survey area but contains between 3 35% total flint (2 25% >2 cm and 1 15% >6 cm) and 1 10% chalk fragments Profile available water will be significantly reduced on this land due to the shallow soil depth over chalk and locally high stone content in the small dry valley which runs from north east to south west past Quarley Down Farm The percentage of stones >2 cm and >6 cm will also adversley affect crop establishment and increase production costs through tyre wear and damage to agricultural machinery Again some areas of better quality land are included in this mapping unit but on the whole this land has been assessed as Subgrade 3b due to a significant soil droughtiness and/or soil stoniness limitation

ADAS Ref 1512/100/95 MAFF Ref 15/518 Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

British Geological Survey (1975) Sheet No 299 Winchester 1 50 000 (drift edition)

British Geological Survey (1976) Sheet No 298 Salisbury 1 50 000 (drift edition)

MAFF (1988) Agricultural Land Classification of England and Wales Revised guidelines and criteria for grading the quality of agricultural land

Meteorological Office (1989) Climatological Data for Agricultural Land Classification

Soil Survey of England and Wales (1983) Sheet 6 Soils of South East England 1 250 000 scale and accompanying legend)

APPENDIX I

DESCRIPTION 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 (eg. 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

Urban

Built up or hard uses with relatively little potential for a return to agriculture including housing, industry commerce education, transport religious buildings cemetries. Also hard surfaced sports facilities permanent caravan sites and vacant land all types of derelict land including mineral workings which are only likely to be reclaimed using derelict land grants.

Non agricultural

Soft uses where most of the land could be returned relatively easily to agriculture including private parkland public open spaces sports fields allotments and soft surfaced areas on airports. Also active mineral workings and refuse tips where restoration conditions to soft after uses may apply

Woodland

Includes commercial and non-commercial woodland A distinction may be made as necessary between farm and non farm woodland

Agricultural Buildings

Includes the normal range of agricultural buildings as well as other relatively permanent structures such as glasshouses Temporary structures (eg polythene tunnels erected for lambing) may be ignored

Open Water

Includes lakes ponds and rivers as map scale permits

Land Not Surveyed

Agricultural land which has not been surveyed

Where the land use includes more than one of the above eg buildings in large grounds, and where map scale permits the cover types may be shown separately. Otherwise the most extensive cover type will be shown ?

APPENDIX II

FIELD ASSESSMENT OF SOIL WETNESS CLASS

SOIL WETNESS CLASSIFICATION

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

Definition of Soil Wetness Classes

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
п	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
Ш	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
ïV	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

Soils can be allocated to a wetness class on the basis of quantitative data recorded over a period of many years or by the interpretation of soil profile characteristics site and climatic factors. Adequate quantitative data will rarely be available for ALC surveys and therefore the interpretative method of field assessment is used to identify soil wetness class in the field. The method adopted here is common to ADAS and the SSLRC

¹The number of days specified is not necessarily a continuous period

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

APPENDIX III SOIL PIT AND SOIL BORING DESCRIPTIONS

Contents

Soil Abbreviations Explanatory Note

Soil Pit Descriptions

Database Printout Boxing Level Information

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	Conferous 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	\mathbf{AE}	Aspect	$\mathbf{E}\mathbf{X}$	Exposure
FR	Frost Risk	GR	Gradient	MR	Microrelief
FL	Flood Risk	TX	Topsoil Texture	DP	Soil Depth
CH	Chemical	WE	Wetness	WK	Workability
DR	Drought	ER	Erosion Risk	WD	Soil Wetness/Droughtiness
ST	Topsoil Stoning	92			_

Soil Pits and Auger Borings

1 **TEXTURE** soil texture classes are denoted by the following abbreviations

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	C	Clay
SC	Sandy Clay	$\mathbf{z}\mathbf{c}$	Silty Clay	\mathbf{OL}	Organic Loam
P	Peat	SP	Sandy Peat	LP	Loamy Peat
PL	Peaty Loam	PS	Peaty Sand	MZ	Marine Light Silts

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

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

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

- 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% +

- 4 MOTTLE CONT Mottle contrast
 - F faint indistinct mottles evident only on close inspection
 - D distinct mottles are readily seen
 - P prominent mottling is conspicuous and one of the outstanding features of the horizon
- 5 PED COL Ped face colour using Munsell notation
- 6 GLEY If the soil horizon is gleyed a Y will appear in this column. If slightly gleyed 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
CH	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
CT	soft weathered igneous/metamo	mhic to	ck.

soft weathered igneous/metamorphic rock

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 MD moderately developed

ST strongly developed

ped size F fine M medium

C coarse VC very coarse

ped shape S single grain M massive

GR granular AB angular blocky

SAB sub angular blocky PR prismatic

PL platy

9 CONSIST Soil consistence is described using the following notation

L loose VF very friable 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

S te Name HANTS SP PALESTINE/GRATE P t N mbe 1P

G d Ref ce SU23824170 A e g A 1 R nfall 796 mm

Acc m lated Tempe at e 1423 degree d ys

Feld C p ty Le 1 174 d ys L nd Use L y

Slope d Aspect 02 degrees N

COLOUR STONES 2 TOT STONE LITH MOTTLES STRUCTURE CONSIST SUBSTRUCTURE CALC HORIZON TEXTURE 10YR33 00 HR Υ 0 26 MZCL 2 3 Υ 26 65 10YR81 00 0 2 HR CH

Wet s Grade 1 Wetness Cl ss I

G1 y ng cm SPL No SPL

Dro ght G de 3B APW 082mm MBW 21 mm

APP 086mm MBP 9 mm

FINAL ALC GRADE 3B

MAIN LIMITATION Drought s

S te Name HANTS SP PALESTINE/GRATE P t N be 2P

Gr d Refe ence SU24954182 A e ge A 1 R f 11 796 mm

Acc mul ted Tempe t e 1423 deg ee d ys

Field Capac ty Le el 174 days

Land U e Perma e t G ss

Slope d A pect deg ee

 HORIZON
 TEXTURE
 COLOUR
 STONES
 2
 TOT STONE
 LITH
 MOTTLES
 STRUCTURE
 CONSIST
 SUBSTRUCTURE
 CALC

 0
 20
 MZCL
 10YR43
 00
 0
 15
 HR
 Y

 20
 45
 CH
 10YR81
 00
 0
 2
 HR
 P
 Y

Wetness Grade 1 Wet ess Class I

Gley g cm

SPL No SPL

Doght G de 3B APW 057mm M8W 46 mm

APP 057mm MBP 36 mm

FINAL ALC GRADE 3B

MAIN LIMITATION Dro ght ess

S t Name HANTS SP PALESTINE/GRATE P t N mbe 3P

G d R fe ence SU27074082 A e g An 1 Ra nfall 796 mm

Accumulated Tempe at e 1423 deg ee days

F eld Capac ty Le 1 174 day
L nd Us Permanent G
Slope nd Aspect 03 degrees SE

COLOUR STONES 2 TOT STONE LITH MOTTLES STRUCTURE CONSIST SUBSTRUCTURE CALC HORIZON TEXTURE 0 22 MZCL 10YR42 00 20 HR 8 Р Υ 22 50 10YR81 64 2 HR СН 0

Wet G ade 1 Wet e Clas I Gley g cm SPL N SPL

D o ght G ade 3B APW 061mm MBW 42 mm APP 061mm MBP 32 mm

FINAL ALC GRADE 3B
MAIN LIMITATION Drought e s

S te Name HANTS SP PALESTINE/GRATE P t N mbe 4P

Grd Refe e ce SU23824170 A e age A al Ra f ll 796 mm

Acc m lated Tempe at re 1423 deg ee days

Feld C p city Lev 1 174 day L d Use Ley

Slope and Aspect 02 deg ees N

HORI	ZON	TEXTURE	COLOUR	STONES	2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0	26	MZCL	10YR33 00	2		3	HR					Υ
26	46	MZCL	10YR44 00	0		30	СН				M	Υ
46	70	Сн	10YR81 00	0		2	HR				P	Y

Wetness G de 1 Wet C1 ss I

 $\begin{array}{cccc} \text{G1 y g} & \text{cm} \\ \text{SPL} & \text{No SPL} \end{array}$

D o ght Grade 3A APW 095mm MBW 8 mm

APP 101mm MBP 6 mm

FINAL ALC GRADE 3A

MAIN LIMITATION D ought ess

SAMPI	_E	A	SPECT			WE	TNESS	WHE	AT	P0	TS	м	1 REL	EROSN	FROST	CHEM	ALC	
NO	GRID REF	USE		GRDNT	GLEY	SPL CLAS	S GRADE	AP	MB	AP	MB	DRT	FLOOD	EX	P DIST	LIMIT		COMMENTS
n 1	SU23524137	SAS	SE	02		1	1	073	24	076	10	3B				DR	3B	Chalk 35
1P	SU23824170	LEY	N	02		1	1	082	21	086	9	3B				DR	38	Roots 65/70
_ 2	SU23424155	PGR				1	1	087	16	093	2	ЗА				DR	3 A	3A ST alo
_ 2P	SU24954182	PGR				1	1	057	46	057	36	3B				DR	3B	Roots 45
3	SU23474172	PGR	NE	05		1	1	071	32	074	19	3B				DR	3B	Ch 1k 20
3P	SU27074082	PGR	SE	03		1	1	061	42	061	32	3B				DR	38	Roots 50
4	SU23604182	PGR	W	01		1	1	073	30	079	14	3B				ST	3B	DR al o
4P	SU23824170	LEY	N	02		1	1	095	8	101	6	ЗА				DR	ЗА	Bounda y A/B
5	SU23374195		\$	02		1	1	089		095	0	3A				DR	ЗА	Chalk 50
6	SU23354212	LEY	S	01		1	1	086	17	092	3	3A				DR	ЗА	3A ST 1 g
- 7	SU23874210	LEY	s	02		1	1	088	15	094	1	ЗА				DR	3A	1 rge sto
8	SU23924195	LEY				1	1	077	30	082	13	3B				ST	38	DR 1 o
9	SU23824170	LEY	N	02		1	1	082	21	086	9	3B				DR	38	At P t 1
10	SU24204202	PGR				1	1	071	32	076	17	38				ST	38	DR 1 o
11	SU24124185	PGR	N	04		1	1	074	29	078	17	3B				DR	38	Ch 1k 20
12	SU24454202	CER				1	1	073	30	077	16	38				ST	3B	DR also
	SU24454217		s	04		1	1	076		080	13	3B				DR	38	Ch 1k 25
_ 14	SU24804207			01		1	1	077		082	11	3B				DR	3B	Ch 1k 38
15	SU24954182		•••			1	1	069		073	19	3B				DR	3B	At P t 2
16	SU24704152		N	01		1	1	082		087		3B				DR	3B	Almo t 3A
1 7	SU24524190	PLO	N	04		1	1	079	24	083	10	3B				DR	3B	Chalk 28
18	SU24254170					1	1	076		080	13	3B				DR	3B	Ch 1k 25
19	SU24374152					1	1	088		097	4	3A				ST	3A	DR also
20	SU23754077		NE	01		1	1	108		114	21	2				DR	2	Imp 78
21	SU23754087		NE	05		1	1	081		086		38				DR		Chalk 27
22	SU23804102	SAS	SW	03		1	1	073	30	078	15	3B				DR	3B	Chalk 25
23	SU23654130					1	2	124		098	5	2				ST	ЗА	Q Dist bed
24	SU23874152		S	02		1	1	087	16	091	2	3A				DR	ЗА	Chalk 38
25	SU24104147	SAS				1	1	056	47	056	37	3B				DR		Imp 40
26	SU23974127	SAS	N	02		1	1	085	18	089	6	3A				DR		Ch 1k 45
27	SU24074105	CER				1	1	086	18	092	6	ЗА				DR	ЗА	Ch 1k 40
28	SU24024085		SW	03		1	1	072		077	16					DR		Chalk 20
29	SU24324112			_		1	1	087		091		3A				DR		Chalk 40
	SU24574117		N	02		1	1	076		080	13					OR		Ch 1k 25
	SU24774135			03		1	1	117		112	19					DR		Chalk 68
32	SU24754150	PGR	N	02		1	1	088	15	093	1	3A				DR	ЗА	Ch 1k 48
	SU24974132					1	1	116		108	15					DR		Chalk 70
3 4	SU25204125		W	02		1	1	076		080	13					DR		Ch 1k 25
	SU25004105					1	1	089		095		3A				DR		Imp 60
_	SU24804095					1	1	071		076	17					DR		Chalk 25
37	SU24074065	CER	N	01		1	1	084	19	090	5	3A				DR	ЗА	3A ST 1 o
	SU24074025			02		1	1	123	20	110	17	2				DR	2	ST 1so

SAMP	LE	A	SPECT			WETN	NESS	WHI	EAT	PC)TS	м	REL.	EROS	N F	ROST	CHEM	ALC	9
NO	GRID REF			GRDNT	GLEY S	SPL CLASS			MB	AP		DRT	FL00		EXP	DIST		0	COMMENTS
39	SU24104040	CER	Ε	05		1	1	145	42	119	26	1					DR	1	•
40	SU24224047	CER				1	1	087	16	091	3	ЗА					DR	3A	Chalk 45
41	SU24404052	CER	N	03		1	1	079	24	083	10	3B					DR	3B	Ch 1k 28
42	SU24474062	CER	N	01		1	1	087	16	093	0	3A					DR	3A	Ch 1k 40
43	SU24354072	CER	W	02		1	1	071	32	076	17	3B					DR	38	Ch 1k 25
44	SU24254085	CED	1.1	01		•	1	000		000	•	24					20	24	- OL - 31 - OO
44 45	SU24654102			01		1	1	086		092	1	3A					DR		Chalk 38
46	SU24654087			03 02		1	1	078		082	11	3B					DR	38	Cha1k 25
47	SU24754070					•	1	051		051	42						DR	38	Imp fl nts 3
48	SU25074090			01		1	1	080		084	9	3B					DR	3B	Cha1k 28
40	3023074030	CER	N	03		1	1	079	23	083	10	3B					DR	38	Ch 1k 28
49	SU25354095	CER	W	03		1	1	074	29	079	14	3B					DR	38	Chalk 20
50	SU25404112	PLO	W	03		1	1	079	24	083	10	3B					DR	3B	Ch 1k 25
51	SU25304155	PGR				1	1	071	32	076	17	3B					DR	3B	Chalk 25
52	SU25174177	PGR	NE	05		1	1	081	21	085	7	38					DR	3B	Imp flit 52
53	SU25304182	PGR				1	1	046	57	046	47	4					DR	38	Imp fli t 30
54	SU24774227	CED	c	0.2		4	1	072	20	070	3.4	3 D					~~	20	Ch - 31 - 05
	SU25174242	-	-	03		1	1	073		078	14	3B					DR		Chalk 25
55 56				04		1	1	078		082	11	3B					DR o -		Chalk 25
56	SU25274212		SW	02		1	1	074		074	19	3B					ST	3B	Imp50 QCh 1km
57	SU25454222		SW	02		1	1	085		091	2	3A					ST	3B	Imp55 Chalk
58	SU25904150	CER	W	03		1	1	076	27	080	13	3B					DR	3B	Chalk 25
59	SU26204122	CER	W	02		1	1	081	20	085	6	3B					DR	ЗА	Almost 3B
60	SU25604142	OSR	NE	03		1	1	073		073	19	3B					DR		Ch 1k 30
61	SU25754117	OSR	NE	01		1	1	074	28	074	18	3B					DR		Imp40 Q CH
62	SU27254055	PGR				1	1	064	39	064	28	3B					DR		Ch 1k 25
63	SU27074082	PGR	SE	03		1	1	076	25	080	12	3B					DR	38	At Pit 3
																			_
64	SU27074040		SE	01		1	1	074	29	07 9	14	3B					DR	3B	Ch 1k 22
65	SU26904050			02		1	1	076		081	12	3B					DR	3B	Chalk 23
66	SU26754070			01		1	1	073		077	16	3B					DR		Ch 1k 18
67	SU26454082			01		1	1	080		084		3B					DR		Not Flinty
68	SU2605401\$	CER	W	02		1	1	084	19	089	3	ЗА					DR	ЗА	Chalk 38
69	SU26304045	CER	W	01		1	1	076	25	081	10	3B					DR	3B	Chalk 30
70	SU2627407\$					=	1	079		084	6						DR		Almost 3B
71	SU25704092		Ε	02			1	053		053	39						DR		Gran la Cha
72	SU25054067			02			1	079		083	9						DR		G an la Chall
	SU26874117			01			1	087		091		3A					DR		Ch 1k 35
			_			•	-	,			-	.					Dix		5.1 IR 55
74	SU2687415\$	CER	s	04		1	1	077	24	082	10	38					DR	38	Ch 1k 30
75	SU26824145	CER	N₩	01		1	1	068	35	068	25	3B					DR		Chalk 25
76	SU25854170			03		1	1	077	26	081	12						DR	38	Ch 1k 25
77	SU26321455	CER				1	1	077	26	081	12	3B					DR		Ch 1k 27
78	SU25104145	PGR				1	1	078	24	083	10	3B					DR		Chalk 28
	0.105-4:																	_	
79	SU25504202	CER	W	03		1	1	074	29	078	15	3B					DR	3B	Chalk 22

AMPLE					MOTTLES		PED			STO			STRUCT/			
AMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2	6 L	ITH	TOT	CONSIST	STR POR	IMP SPL CALC	
1	0 25	mzcl	10YR33 00						6	3 H	R	15			Y	
1	25 35	mzcl	10YR54 00						0	0 C	Н	35		М	Y	
_	35 70	ch	10YR81 00						0	0 н	R	2		Р	Y	
1P	0 26	mzcl	10YR33 00						2	1 H	R	3			Y	
	26 65	ch	10YR81 00						0	0 н	R	2		Р	Y	soft Chalk
2	0 20	mzcl	10YR43 00						12	8 H	R	17			Υ	
2	20 40	mzcl	10YR54 00						0	0 C	H	15		М	Y	
	40 70	ch	10YR81 00						0	0 н	Ř	2		P	Y	
2P	0 20	mzcl	10YR43 00						0	0 н	R	15			Y	
	20 45	ch	10YR81 00						0	0 н	R	2		Р	Y	ery hard Chalk
3	0 20	mzc1	10YR43 00						5	2 H	Ŕ	9			Y	
	20 60	ch	10YR81 00							0 н		2		P	Y	
3 P	0 22	mzcl	10YR42 00						8	2 H	IR.	20			Y	
3P	22 50	ch	10YR81 64							0 н		2		Р	Y	hard Ch 1k
— 4	0 25	mzcl	10YR33 00						25	15 F	IR.	35			Y	
-	25 45	mz 1	10YR44 00							0 1		35		М	γ	
	45 70	ch	10YR81 00						0	0 H		2		Р	Υ	
4 P	0 26	mzcl	10YR33 00						2	1 H	łR	3			Y	
4P	26 46	mzcl	10YR44 00						0	0 0		30		M	Y	
	46 70	ch	10YR81 00						0	0 F		2		Р	Y	soft Chalk
5	0 22	m 1	10YR33 00						8	4 +	IR	15			Y	
,	22 50	 m cl	10YR44 00						0	0 F		15		М	Y	
_	50 70	ch	10YR81 00						0	0 F		2		P	Υ	
6	0 25	mzcl	10YR33 00						10	7 F	{R	12			Y	
v	25 45	mzc1	10YR44 00						0	0 (50		M	Υ	
	45 70	ch	10YR81 00							0 F		2		Р	Υ	
7	0 28	mzcl	10YR43 00						10	6 H	iR	12			Y	
_ ′	28 38	mzcl	10YR44 00						0			10		М	Y	
	38 70	ch	10YR81 00							0 F		2		P	Y	
8	0 26	mz 1	10YR33 00						16	4 H	IR	25			Υ	
°	26 65	ch	101R33 00							0 F		2		P	Y	
_ 9	0 26	mzcl	10YR33 00							1 1		3		_	Y	
	26 65	h	10YR81 00						0	0 1	łR	2		Р	Y	
10	0 25	mzc1	10YR33 00							5 H		25			Y	
	25 65	ch	10YR81 00						0	0 H	łR	2		Р	Y	

					MOTTLES	;	PED			STONE	s	STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2	6 LIT	н тот	CONSIST	STR POR	IMP SPL CALC	
11	0 20	m cl	10YR43 00						4	2 HR	10			Υ	
	20 65	ch	10YR81 00						0	O HR	2		Р	Y	
12	0 27	mzcl	10YR33 00						16	6 HR	25			Υ	
	27 65	ch	10YR81 00						0	O HR	2		P	Y	
13	0 25	mzcl	10YR42 00						6	2 HR	15			Y	
,,,	25 65	ch	10YR81 00							O HR	2		Р	Y	
1.0	0.00	-	10/010 00						10	2 415	20			.,	
14	0 28 28 38	mzcl mzcl	10YR43 00 10YR44 00						10 0	3 HR 0 HR	20 30		M	Y Y	
	38 65	ch	10YR81 00						0	0 HR	2		P	Y	
			400/040 00						•					.,	
15	0 20 20 45	mzc1 ch	10YR42 00 10YR81 00						3	1 HR 0 HR	20 2		Р	Y Y	
									•		_		·	·	
16	0 35	m 1	10YR42 00							1 HR	15		_	Y	
	35 65	ch	10YR81 00						0	0 HR	2		Р	Y	
17	0 28	m 1	10YR42 00						2	0 HR	10			Y	
	28 65	ch	10YR81 00						0	0 HR	2		Р	Y	
18	0 25	mzcl	10YR42 00						6	1 HR	15			Υ	
	25 65	ch	10YR81 00							0 HR	2		Р	Y	
19	0.25	1	100042 00						11	5 HR	20			v	
19	0 25 25 40	mzcl mzcl	10YR43 00 10YR44 00								20 40		м	Y	
	40 70	m 1	10YR54 00							0 СН	65		М	Y	Imp f1 t 70
20	0 30	mz 1	10YR43 00						2	0 HR	8			Υ	
20	30 55	C	101R43 00							0 HR	5		М	Y	
	55 68	h cl	10YR54 00							0 CH	20		M	Y	
	68 78	mzcl	10YR54 00							O CH	50		M	Y	Imp fl nts 78
21	0 27	m 1	10YR43 00						2	O HR	8			Υ	
	27 65	ch	10YR81 00						0	0 HR	2		P	Υ	
22	0 25	mzcl	10YR43 00						9	4 HR	20			Υ	
	25 65	ch	10YR81 00						0	0 HR	2		P	Y	
22															
23	0 30 30 55	h cl h cl	10YR44 00 10YR43 00						12 0	0 HR 0 HR	25 15		м	Y Y	
	55 65	mzcl	10YR43 00						0	0 CH	30		M	Y	
	65 105	m cl	25Y 42 00						0	0 CH	40		М	Y	
	105 120	ch	10YR81 00						0	O HR	2		Р	Υ	
24	0 28	mzc1	10YR43 00						4	2 HR	8			Υ	
24	28 38	m 1	101R43 00						0	0 HR	8		М	Y	
	38 65	ch	10YR81 00						0	0 HR	2		P	Y	

					MOTTLES		PED				ONES		STRUCT/				
AMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2	6	LITH	TOT	CONSIST	STR POR	IMP SPL	CALC	
25	0 20	mz 1	10YR43 00						12			25				Υ	
	20 40	mzcl	10YR63 00						0	0	CH	50		M		Y	
_ 26	0 20	mzcl	10YR43 00						6	2	HR	15				Υ	
26	20 45	mzcl	10YR63 00						0	0	СН	30		М		γ	
	45 65	ch	10YR81 00						0	0	HR	2		Р		Y	
27	0 20	mzcl	10YR43 00						4	2	HR	15				Υ	
	20 40	mzc1	10YR63 00						0	0	СН	30		М		Υ	
	40 65	ch	10YR81 00							0		2		Ρ		Υ	
28	0 20	mzcl	10YR43 00						8	2	HR	15				Y	
	20 65	ch	10YR81 00							0		2		Р		Y	
29	0 30	mz 1	10YR43 00						2	0	НĎ	10				Y	
29	30 40	mzcl	10YR63 00							0		30		м		Ϋ́	
	40 65	ch	10YR81 00							0		2		M P		Y	
30																	
30	0 25	mzcl	10YR33 00							0		15				Υ	
_	25 65	ch	10YR81 00						0	0	HR	2		Р		Y	
31	0 23	m cl	10YR43 00						2	0	HR	15				Υ	
_	23 40	h cl	10YR44 00						0	0	HR	5		М		Υ	
_	40 58	С	75YR54 00	75YR5	8 00 C			S	0	0	HR	2		М		Υ	
	58 68	m cl	10YR54 00						0	0		2		М		Υ	
	68 98	ch	10YR81 00						0	0	HR	2		P		Y	
32	0 30	m cl	10YR43 00						2	0	HR	15				Υ	
	30 48	h cl	10YR54 00						0	0	HR	5		М		Υ	
	48 70	ch	10YR81 00						0	0	HR	2		P		Υ	
33	0 28	m cl	10YR43 00						6	0	HR	15				Υ	
	28 40	h cl	10YR44 00						0	0	HR	20		М		Υ	
_	40 70	h 1	10YR54 00						0	0	HR	10		М		Υ	
	70 100	ch	10YR81 00						0	0	HR	2		P		Y	
34	0 25	mzcl	10YR43 00						8	2	HR	15				Υ	
	25 65	ch	10YR81 00						0	0	HR	2		Р		Y	
35	0 25	m cl	10YR43 00						2	0	HR	10				Y	
	25 60	m cl	10YR63 00						0	0	СН	30		М		Υ	Imp fints 60
36	0 25	m cl	10YR43 00						12	4	HR	25				Υ	
_	25 65	ch	10YR81 00						0	0		2		Р		Ÿ	
37	0 25	mzcl	10YR43 00						11	8	НD	18				Υ	
3/	25 48	m cl	107R43 00						0	0		30		М		Y	
_	48 78	ch	10YR81 00						0	0		2		M		Ϋ́	
	,.	-							-	-		_		• •		•	

					MOTTLES		PED			STONES		STRUCT/	SUBS				
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2	6 LITH	тот	CONSIST	STR POR IMP SPL	CALC			
38	0 25	m cl	10YR43 00						8	4 HR	12			Y			
	25 38	h c1	10YR44 00						0	0 HR	5		М	Υ			
	38 80	С	10YR46 00						0	0 HR	10		М	Y			
	80 110	ch	10YR81 00						0	O HR	2		Р	Υ			
39	0 30	m cl	10YR43 00						1	0 HR	5			Y			
	30 50	h 1	10YR44 00						0	0 HR	2		М	Υ			
	50 82	С	10YR46 00						0	O HR	2		М	Υ			
	82 120	mzcl	10YR64 00						0	0 CH	50		М	Υ			
40	0 25	mzcl	10YR43 00						4	4 HR	10			Υ			
	25 45	mzcl	10YR63 00						0	0 CH	30		М	Υ			
	45 70	ch	10YR81 00						0	0 HR	2		М	Υ			
41	0 28	mzcl	10YR43 00						6	1 HR	10			Υ			
	28 65	h	10YR81 00						0	0 HR	2		P	Υ			
42	0 25	mzcl	10YR43 00					1	10	2 HR	15			Υ			
	25 40	mz 1	10YR63 00						0	0 CH	30		М	Υ			
	40 70	ch	10YR81 00						0	0 HR	2		Р	Y			
43	0 25	mzcl	10YR43 00					1	4	2 HR	25			Υ			
	25 65	ch	10YR81 00						0	0 HR	2		Р	Υ			
44	0 28	mzcl	10YR43 00						8	0 HR	15			Υ			
	28 38	mzcl	10YR53 00						0	0 CH	30		M	Υ			
	38 70	h	10YR81 00						0	0 HR	2		Р	Υ			
45	0 25	m cl	10YR43 00							0 HR	10			Y			
	25 65	ch	10YR81 00						0	0 HR	2		Р	Υ			
46	0 25	m cl	10YR43 00							4 HR	25			Y			
	25 35	m cl	10YR64 00						0	0 CH	30		М	Y	Imp fl	ts	35
47	0 28	m cl	10YR43 00						4	O HR	10			Υ			
	28 65	ch	10YR81 00						0	0 HR	2		Р	Y			
48	0 28	mzcl	10YR43 00						4	0 HR	8			Υ			
	28 65	ch	10YR81 00						0	0 HR	2		P	Y			
49	0 20	m cl	10YR43 00						1	0 HR	10			Υ			
	20 65	ch	10YR81 00						0	0 HR	2		Р	Υ			
		_								A 1/-							
50	0 25	m cl	10YR43 00						1	0 HR	8		_	Y			
	25 65	ch	10YR81 00						0	0 HR	2		Р	Υ			
		-	101/0/5 5=							0.15							
51	0 25	mzc1	10YR43 00					1	0	0 HR	25		_	Y			
	25 65	ch	10YR81 00						0	0 HR	2		Р	Υ			

MPLE	DEPTH	TEVTUBE	COLOUR	COL	MOTTLES		PED	CLEV	2	STONES	тот	STRUCT/		CALC					
#WIFCE	DEPIN	TEXTURE	COLOUR	CUL	ABUN	CONT	COL	GLET	2	O LIIN	101	CONSTST	STR POR IMP SPL	CALC					
52	0 34	mzcl	10YR43 00							0 HR	15			Y					
j	34 65	mcl	10YR64 81						0	0 HR	5		М	Y	Imp	f1	nt	s 6	5
53	0 30	mzcl	10YR43 00						11	0 HR	20			Y	Imp	fl	t	3(כ
54	0 25	m cl	10YR42 00						9	5 HR	18			Y					
	25 65	ch	10YR81 00						0	O HR	2		Р	Y					
55	0 25	mz 1	10YR42 00						0	O CH	20			Y					
_	25 65	ch	10YR81 00						0	0 HR	2		Р	Y					
56	0 30	m 1	10YR43 00						16	8 HR	25			Y					
	30 50	m cl	10YR43 00						0	0 CH	25		м	Υ					
57	0 30	m cl	10YR43 00						16	8 HR	25			Y					
J	30 47	m cl	10YR43 00						0	0 CH	35		М	Υ					
	47 65	h	10YR81 00						0	O HR	1		Р	Y					
58	0 25	cl	10YR42 00						9	5 HR	15			Υ					
-	25 65	ch	10YR81 00						0	O HR	2		Р	Y					
59	0 28	m cl	10YR42 00						1	O HR	6			Υ					
	28 65	h	10YR81 00						0	0 HR	2		Р	Y					
60	0 30	cl	10YR43 00						2	O HR	5			γ					
	30 65	h	10YR72 00						0	0 HR	5		P	Y					
61	0 30	mz 1	10YR43 00						2	0 HR	10			Υ					
61	30 37	cl	10YR44 00						0	0 HR	10		М	Υ					
	37 40	mcl	10YR64 00						0	0 CH	35		М	Υ					
62	0 25	c1	10YR43 00						9	1 HR	18			Y					
	25 65	h	10YR81 00						0	0 HR	2		Р	Υ					
63	0 25	m c1	10YR43 00						8	2 HR	15			Y					
,	25 65	ch	10YR81 00						0	O HR	2		Р	Υ					
64	0 22	mz 1	10YR43 00						6	2 HR	15			Υ					
64	22 65	ch	10YR81 00						0		0		Р	Y					
65	0 23	mzc1	10YR43 00						3	O HR	10			Y					
65	23 65	h	10YR81 00						0	0 HR	2		Р	Y					
66	0 18	mzcl	10YR43 00						3	0 HR	10			Y					
	18 65	h	10YR81 00						0	0 HR	2		Р	Y					
67	0 24	m cl	10YR53 00						0	0 CH	10			Y					
_	24 65	ch	10YR81 00						0	0	0		Р	Υ					

						1	MOTTLES		PED			ST	ONES		STRUCT/	SUBS			
SAMPLE	DEP	TH	TEXTURE	COLOUR	₹	COL	ABUN	CONT	COL	GLEY	2	6	LITH	TOT	CONSIST	STR POR	IMP S	SPL CA	ALC
68	0	25	m 1	10YR43	00						6	1	ИĎ	10				,	1
00	25		m cl	10YR43								0		25		м			Y
	38		ch	10YR81							0	0		2		P			Y
		00	Ci i	TOTAGE	00						Ü	Ů	111	_		•			•
69	0	30	m 1	10YR53	00						0	0	СН	25				`	Y
	30	65	ch	10YR81	00						0	0	HR	2		Р		,	Y
70	0	25	mz 1	10YR43	ກດ						0	0	СН	10				,	Y
, 0	25		ch	10YR81								0		2		Р			Y
	23	03	Cii	TOTROT	00						Ü	U	1110	۷		•			1
71	0	28	m cl	10YR44	00						2	0	HR	5				,	Y
	28	65	ch	10YR82	00						0	0	HR	2		Р		•	Y
72	0	28	m 1	10YR44	00						2	6	HR	10				,	Y
	28	65	ch	10YR82	00						0	0	HR	2		P		`	Y
73	0	3 5	mz 1	10YR43	00						4	0	ШD	8				,	Y
/3	35		ch	10YR81							0	0		2		Р			Y
	J.J	03	CII	TOTABL	00						U	Ū	TIK	_		,			,
74	0	30	mzcl	10YR52	00						0	0	CH	25				,	Y
	30	65	ch	10YR81	00						0	0	HR	2		Р		•	Y
75	0	25	m n1	10YR52	00						0	٥	HR	10				,	Y
75			m cl								0	0		2		Р			Y
	25	50	ch	10YR81	ŲŪ						U	U	пк	4		r			ī
76	0	25	mzcl	10YR43	00						0	0	СН	25				,	Y
	25	65	ch	10YR81	00						0	0	HR	2		Р		,	Y
77	0	27	mzcl	10YR42	00						0	0	CH	30				,	Y
	27	65	ch	10YR81	00						0	0	HR	2		Р		,	Y
78	0	20	mzcl	10YR43	ΩD						0	0	СН	15				,	Y
76											0	0		2		P			Ϋ́
	28	US	ch	10YR81	UU						J	U	1117	۷		r			r
79	0	22	mzcl	10YR52	00						3	0	СН	30				,	Y
	22		ch	10YR81							0	0		2		Р		,	Υ