A1 Maidstone Borough Local Plan Site 29 Land at River Farm, Hollingbourne Agricultural Land Classification ALC Map and Report October 1994

AGRICULTURAL LAND CLASSIFICATION REPORT

MAIDSTONE BOROUGH LOCAL PLAN SITE 29 LAND AT RIVER FARM, HOLLINGBOURNE

1 Summary

- 11 ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land quality for a number of sites in the Maidstone Borough of Kent The work forms part of MAFF's statutory input to the preparation of the Maidstone Borough Local Plan
- 12 Site 29 comprises 83 hectares of land north of Eyhorne Street in the village of Hollingbourne An Agricultural Land Classification (ALC) survey was carried out during August 1994 The survey was undertaken at a detailed level of approximately one boring per hectare A total of 12 borings and one soil inspection pit were described in accordance with MAFF's revised guidelines and criteria for grading the quality of agricultural land (MAFF 1988) These 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
- 1 3 The survey work was carried out by the Resource Planning Team of the Guildford Statutory Group of ADAS
- 1 4 At the time of survey the land use on the site was permanent pasture
- 15 The distribution of grades and subgrades is shown on the attached ALC map and the areas are given in the table below The map has been drawn at a scale of 1 10 000 It is accurate at this scale but any enlargement would be misleading

Table 1	Distribution	of Grades	s and Subgrades
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Grade	Area (ha)	% of Agricultural Land
2	06	72
3b	77	92 8
Total area of site	83	100 0

- 17 Appendix I gives a general description of the grades subgrades and land use categories identified in the survey The main classes are described in terms of the type of limitation that can occur the typical cropping range and the expected level and consistency of yield
- 16 The majority of the agricultural land surveyed has been classified as Subgrade 3b moderate quality, because of significant soil wetness and workability limitations Profiles typically comprise heavy silty clay loam topsoils which become calcareous downslope These overlie clay and silty clay upper and lower subsoils These

subsoils are poorly structured and their slowly permeable characteristics act to significantly impair drainage resulting in gleying below and within the topsoils The lowest lying land has been classed as Grade 2 very good quality because of a possible chemical limitation caused by extremely calcareous upper subsoils comprising algal marl deposits

2 Climate

- 2.1 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
- 2.2 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 (degree days Jan June) as a measure of the relative warmth of a locality
- 2 3 A detailed assessment of the prevailing climate was made by interpolation from a 5km gridpoint dataset (Met Office 1989) The details are given in the table below and these show that there is no overall climatic limitation affecting the site. The crop adjusted soil moisture deficits at this locality are slightly higher than the regional average. High soil moisture deficits increase the likelihood of soil droughtiness limitations and decrease that of soil wetness limitations.
- 2.4 No local climatic factors such as exposure or frost risk are believed to affect the site

Table 2 Climatic Interpolation

Grid Reference	TQ833549
Altitude (m)	65
Accumulated Temperature	1432
(degree days Jan-June)	
Average Annual Rainfall (mm)	724
Field Capacity (days)	152
Moisture Deficit, Wheat (mm)	111
Moisture Deficit Potatoes (mm)	105
Overall Climatic Grade	1

3 Relief

3 1 The highest land occurs in the north west of the site lying level at approximately 75m AOD The land then falls through slopes of 1 5° to lie at approximately 65m AOD in the south-east of the site where land becomes level Neither gradient or relief impose any limitation to agricultural land quality

4 Geology and Soil

- 4 1 British Geological Survey (1971) Sheet 288 shows the entire site to be underlain by Gault Clay
- 4 2 Soil Survey of England and Wales (1983) Sheet 6 shows the entire site to comprise soils of the Denchworth Association These soils are described as slowly permeable seasonally waterlogged clayey soils with similar fine loamy over clayey soils. Some fine loamy over clayey soils with only slight seasonal waterlogging and some slowly permeable calcareous clayey soils. Landslips and associated irregular terrain locally (SSEW 1983)
- 4 3 Detailed field examination of the soils on the site found them to be consistent with the published geological information across most of the site Soils comprise both calcareous and non calcareous slowly permeable seasonally waterlogged soils The flatter lowest lying land consists of well drained soils with upper subsoils comprising algal marl deposits

5 Agricultural Land Classification

- 51 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
- 5 2 The location of the soil observation points are shown on the attached sample point map

Grade 2

The flatter lower-lying land on the site has been classed as very good quality 53 because of a possible chemical limitation caused by very high levels of calcium carbonate within the soil profile Topsoils typically comprise silt loams or medium silty clay loams which overlie heavy silty clay loam upper subsoils At approximately 45 cm depth these profiles pass into a deep horizon of algal marl which overlies poorly structured clay at approximately 95 cm This clay acts to slightly impede drainage causing gleying within the algal marl horizon However because the clay is only present at depth then such profiles are still eligible to be assigned to Wetness Class I These soils having developed from calcareous algal marl deposits have very high levels of calcium carbonate which acts to restrict micro nutrient availability to plants. It is therefore judged that these soils have sufficiently high carbonate levels to impose a slight chemical limitation on plant growth thereby restricting the agricultural land quality The range of crops which can tolerate such high levels of calcium carbonate will be limited

Subgrade 3b

5 4 The majority of land on the site has been classified as moderate quality because of significant soil wetness and workability limitations Topsoils comprise heavy silty clay loams though on the highest flatter land in the north of the site silty clays occur Topsoils are very slightly stony containing approximately 2-5% total flints

and/or chalk fragments by volume and tend to be non calcareous along the western boundary of the site but calcareous elsewhere These overlie calcareous and non calcareous clay and silty clay upper and lower subsoils which are similarly stony to that of the topsoils These subsoils are poorly structured directly below the topsoil and their slowly permeable characteristics act to significantly impede drainage This causes seasonal waterlogging as evidenced by gleying below and often within the topsoil Consequently Wetness Class IV is appropriate Pit 1 typifies such soils The interaction between the heavy topsoil textures and the drainage status with the climatic regime prevailing at this site means that this land is subject to significant restrictions on its use in terms of workability opportunities for cultivations and grazing by livestock Crop growth and yield will also be adversely affected by such soil wetness

ADAS Ref 2007/198/94 MAFF Ref EL 20/328 Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

British Geological Survey (1976) Sheet No 288 Maidstone 1 50 000 Series (solid and 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 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 religous 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.

* 5

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

Wetness Class **Duration of Waterlogging¹** I The soil profile is not wet within 70 cm depth for more than 30 days in most years² 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 IV 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 The soil profile is wet within 40 cm depth for 211-335 days in most V years VI The soil profile is wet within 40 cm depth for more than 335 days in

Definition of Soil Wetness Classes

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

most years

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 - Boring 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
РОТ	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)S			

- 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

MRELMicrorelief limitationFLOODFlood riskEROSNSoil erosion riskEXPExposure limitationFROSTFrost proneDISTDisturbed landCHEMChemical 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	TХ	Topsoil Texture	DP	Soil Depth
СН	Chemical	WE	Wetness	WK	Workability
DR	Drought	ER	Erosion Risk	WD	Soil Wetness/Droughtiness
ST	Topsoil Stonine	ss			0

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	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

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

× 1

- **F** 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
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)

05 94

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
<u>ped shape</u>	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 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

SOIL PIT DESCRIPTION

Site Nam	e MAIDST	ONE LP SITE	29	Pit Number	1	Ρ				
Grid Ref	erence TQ	83365491 // / I S	Average Annu Accumulated Field Capaci Land Use Slope and As	al Rainfall Temperature ty Level pect	72 143 152 Per 02	24 mm 22 degree 2 days manent Gr degrees S	days Pass E			
HORIZON	TEXTURE	COLOUR	stones >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	HZCL	25ZY42 00	0	5	HR					Y
25- 42	C	10YR53 00	0	10	HR	С	STCOAB	VF	Ρ	Y
42- 50	С	10YR53 00	0	0		м	STVCPR	VF	P	
50- 70	ZC	05 Y61 00	0	0		М	MDCOPR	VF	Ρ	
Wetness (Grade 3B	i (Wetness Clas Gleying SPL	s IV 025 025	cm cm					
Drought (Grade	, ,	APW mm APP mm	MBW MBP	0mm 0mm					
FINAL AL	C GRADE	38								

MAIN LIMITATION Wetness

program ALCO12 LIST OF BORINGS HEADERS 04/11/94 MAIDSTONE LP SITE 29 -----

	SAMP	LE		ASPECT				WET	NESS	WH	ÉAT-	-PC	TS-	M	REL	EROSN	FROST	CHEM	ALC	
	NO	GRID REF	USE		GRDNT	GLE	y spl	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	E	XP DIST	LIMIT		COMMENTS
	1	TQ83305500	PGR			0	018	4	3B		0		0					WE	3B	
	1P	TQ83365491	PGR	SE	02	025	025	4	3B		0		0					WE	3B	Pit dug to 70
-	2	TQ83405500	PGR	SE	04	020	020	4	3B		0		0					WE	38	
_	3	TQ83205490	PGR	Ε	01	0	020	4	3B		0		0					WE	3B	
	4	TQ83305490	pgr	SE	04	025	025	4	38		0		0					WE	3B	
	5	TQ83365491	PGR	SE	04	025	025	4	38		0		0					WE	3B	
	6	TQ83505490	PGR	Ε	01	028	028	4	38		0		0					WE	3B	
	7	TQ83205480	PGR	SE	05	0	025	4	3B		0		0					WE	3B	
	8	TQ83305483	PGR	SE	02	022	022	4	3B		0		0					WE	3B	
Î	9	TQ83405480	PGR	Ε	01	0	028	4	3B		0		0					WE	3B	
	10	TQ83505480	PGR	Ε	01	078	078	2	3A	136	25	114	9	2				WE	3A	
_	11	TQ83585480	PGR	Ε	01	045	095	1	1	157	46	122	0	1				СН	2	Algal Marl 45
	12	TQ83475483	PGR	ε	01	0	030	4	3B		0		0					WE	3B	

page 1

				M	OTTL	.ES-	P	ED			5	STONE	S	STRUCT/	/ 5	SUBS	S			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	i	CONT C	OL	GLE	/ >2	>6	5 LIT	н тот	CONSIST	г :	STR	POR	IMP	SPL	CALC
1	0 18	zc	25Y 52 00	75YR46	00	с			Ŷ	0	• •) HR	4							
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1P	0-25	hzcl	25ZY42 00							C) HR	5							Y
l	25-42	с	10YR53 00	10YR56	00	С			Y	0) () HR	10	STCOAB	VF	Ρ	Y		Y	Y
	42-50	c	10YR53 00	75YR58	00	M			Y	0	()	0	STVCPR	VF	Ρ	Y		Y	
	50-70	ZC	05 Y61 Q0	75YR58	00	М			Y	0) ()	0	MDCOPR	VF	Ρ	Y		Y	
2	0-20	hzcl	25Y 42 00							C) (сн	3							Y
1	20-35	zc	25Y 53 00	10YR56	00	С			Y	0) () CH	3			Ρ			Y	Y
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3	0-20	hzcl	25Y 42 00	75YR46	00	с			Ŷ	C) () hr	3							
	20-35	ZC	05Y 61 62	10YR56	00	M			Y	C) () hr	8			Ρ			Y	
ł	35-60	zc	05Y 61 62	10YR56	00	М			Ŷ	0) ()	0			Ρ			Ŷ	
4	0-25	hzcl	25Y 42 00							0	. () HR	2							Y
	25-38	с	10YR53 00	10YR58	00	М			Y	0	() HR	5			Ρ			Ŷ	Y
	38-55	с	25Y 53 00	75YR58	00	M			Y	0	() hr	2			Ρ			Y	Y
5	0-25	hzcl	25Y 42 00							0		СН	2							Y
	25-40	c	10YR53 00	10YR56	00	С	00M	N00	00 Y	0) () HR	8			Ρ			Y	Y
	40-50	с	10YR53 00	10YR56	51	Μ			Y	0) () hr	3			Ρ			Y	
	50-70	zc	05Y 61 62	10YR56	00	М			Y	0)	0			Ρ			Y	
6	0-28	hzcl	25Y 42 00	10YR56	00	F				C		СН	2							Y
	28 55	с	25Y 52 00	10YR56	00	С			Y	0) (CH	2			Ρ			Y	Y
7	0-25	hzcl	25Y 41 00	10YR68	00	С			Y	0	() HR	2							
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	40-60	zc	05Y 61 00	75YR68	00	Μ			Y	0	()	0			Ρ			Y	
8	0-22	hzc1	25Y 42 00							0) hr	2							
	22-32	с	25Y 53 00	10YR58	00	Μ	00M	N00	00 Y	C	() hr	5			Ρ			Y	
I	32-60	zc	05Y 62 00	75YR68	00	М			Ŷ	0) () hr	2			Ρ			Y	
9	0-28	hzcl	25Y 32 00	10YR56	00	с			Ŷ	C) (СН	2							Y
	28-60	с	05Y 51 00	10YR56	00	С			Y	0) () CH	2			Ρ			Y	Y
10	0-25	hzcl	25Y 42 00							C) (сн	3							Y
	25-65	zc	25Y 42 00							0) () CH	3			M				Y
I	65-78	zC	25Y 31 00	10YR56	00	F				C) () CH	3			M				Y
1	78-120	ZC	USY 61 00	10YR56	00	С			Ŷ	0) ()	0			Р			Ŷ	Y
11	0-30	mzcl	10YR42 00							C) (сн	2							Y
	30-45	hzc1	25Y 52 53							C) (Ю	3			М				Y
	45-95	csl	10YR82 00	10YR56	00	С			Y	C) ()	0			M				Y
	95-120	с	25Y 42 00	75YR46	00	С			Y	0) ()	0			Ρ			Y	Y

page 1

page 2

					M	OTTLES		PED			-STONES		STRUCT/	SUBS			
SA	MPLE	DEPTH	TEXTURE	COLOUR	COL /	ABUN	CONT	00L	GLEY	>2	>6 LITH	тот	CONSIST	STR POR	IMP S	PL CA	LC
	12	0-30	hzcl	25Y 42 00	10YR56	00 C			Y	0	0 HR	2				Y	
		30-55	с	05Y 42 52	10YR58	00 C			Ŷ	0	0	0		Ρ		Y	