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Canterbury District Local Plan
CAN 24: Land near Hollow Lane,
Thanington
Agricultural Land Classification,
ALC Map and Report
March 1995

AGRICULTURAL LAND CLASSIFICATION REPORT

CANTERBURY DISTRICT LOCAL PLAN CAN 24: LAND NEAR HOLLOW LANE, THANINGTON

1. Summary

- 1.1 ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land quality for a number of sites in the Canterbury district of Kent. The work forms part of MAFF's statutory input to the Canterbury District Local Plan
- 1.2 CAN 24 comprises 11.7 hectares of land to the east of the A2 and either side of Hollow Lane at Thanington, south-west of Canterbury, Kent. Land to the east of Hollow Lane was the subject of a previous survey in February 1985 (ADAS Reference 2002/040/85). This survey was carried out to assess agricultural land quality and classified the land as Grade 1. This survey was, however, carried out prior to the revision of MAFF's guidelines and criteria for grading the quality of agricultural land, (MAFF, 1988) which came into effect on 1 January 1989. Consequently, all of CAN 24 was re-evaluated during March 1995. Applying the revised ALC guidelines, which have more refined droughtiness (and wetness) criteria compared with the original guidelines, all of CAN 24 is now classified as Grade 2.
- 1.3 The 1995 survey was undertaken at a detailed level of approximately one boring per hectare of agricultural land surveyed. A total of 10 borings and two soil inspection pits were described in accordance with the revised guidelines. 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.
- 1.4 The work was carried out by members of the Resource Planning Team in the Guildford Statutory Group of ADAS.
- 1.5 At the time of survey land to the west of Hollow Lane was not being grazed, comprising rough grassland. Elsewhere the agricultural land use was permanent grass. Areas mapped as urban include metalled roads, a furniture warehouse and residential dwellings. Land mapped as non-agricultural comprises an area of trees and scrub plus a roadside verge. The agricultural buildings consist of storage barns and chicken huts.
- 1.6 The distribution of grades and subgrades is shown on the attached ALC map and the areas and extent are given Table 1. The map has been drawn at a scale of 1:10,000. It is accurate at this scale, but any enlargement would be misleading. This map supersedes the 1985 survey.
- 1.7 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.

Table 1: Distribution of Grades and Subgrades

Grade	Area (ha)	% of Site	% of Agricultural Land
2	10.0	85.4	100.0 (10.0 ha)
Urban	1.0	8.6	
Non-agricultural	0.4	3.4	
Agricultural buildings	<u>0.3</u>	<u>2.6</u>	
Total area of site	11.7	100.0	

1.8 All of CAN 24 has been classified as Grade 2, very good quality, because of minor soil droughtiness limitations. Profiles typically comprise deep, well drained and slightly stony silty and loamy textured soils. The interaction between these soil properties and the prevailing local climate, which is relatively dry in a national context, acts to impart a slight soil droughtiness limitation. This may lead to the soil available water being insufficient to fully meet crop needs. Consequently this land may suffer from a slightly lower yield potential and less consistent crop yields.

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, 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. However climatic factors do interact with soil factors to influence soil wetness and droughtiness limitations. The soil moisture deficits are relatively high, in a national context, at this locality. High soil moisture deficits increase the likelihood of soil droughtiness limitations.

Table 2 : Climatic Interpolation

Grid Reference	TR 142 566
Altitude (m)	22
Accumulated Temperature	1473
(degree days, Jan-June)	
Average Annual Rainfall (mm)	674
Field Capacity (days)	142
Moisture Deficit, Wheat (mm)	119
Moisture Deficit, Potatoes (mm)	116
Overall Climatic Grade	1

2.4 No other local climatic factors, such as exposure or frost risk, are believed to affect the site.

3. Relief

3.1 The site occupies relatively flat land, falling from approximately 30 m AOD in the extreme south of the site to 20 m AOD in the north of the site.

4. Geology and Soil

- 4.1 The published geological sheet (BGS, 1982) shows the entire site to be underlain by Upper Chalk. The areas east of Hollow Lane and north of Wincheap Farm are shown to be overlain by drift deposits of head brickearth.
- 4.2 The most recent published soils information (SSEW, 1983) shows the north part of the site as Urban. Elsewhere the site is shown to comprise soils of the Coombe 1 Association. These soils are described as 'well drained calcareous fine silty soils, deep in valley bottoms, shallow to chalk on valley sides in places'. The soils for this area are also similarly described in the Soils of Kent (SSEW, 1980).
- 4.3 Detailed field examination generally found deep well drained silty and loamy textured soils.

5. Agricultural Land Classification

- 5.1 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

- 5.3 All of the agricultural land surveyed has been classified as Grade 2, very good quality, because of minor soil droughtiness limitations. Topsoils comprise medium sandy silt loams, medium clay loams and medium silty clay loams. These typically overlie similarly textured subsoils. These soils are generally stoneless to slightly stony, containing 0-15% total flints by volume. Profiles are well drained (Wetness Class I), and are occasionally gleyed below 40 cm due to fluctuating groundwater. These profiles are represented by Pits 1 and 2, which were found to have moderately structured subsoils.
- 5.4 The interaction between these soil textures, stone contents and subsoil structures with the prevailing local climate means that this land is likely to have slightly reduced

profile available water. Consequently there is a minor risk of drought stress for those crops which are grown. This may result in a slightly lower yield potential and less consistent crop yields.

ADAS Ref: 2002/055/95 MAFF Ref: EL 20/642 Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

British Geological Survey (1982), Sheet No. 289, Canterbury, 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 (1980), Bulletin No. 9, Soils of Kent and accompanying maps at 1:250,000.

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.

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
II	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.
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 - 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 BEN: Field Beans BRA: Brassicae OSR: Oilseed rape POT: Potatoes FCD: Fodder Crops SBT: Sugar Beet LIN: Linseed FRT: Soft and Top Fruit FLW: Fallow PGR: Permanent PastureLEY: Lev Grass **RGR**: Rough Grazing Coniferous Woodland DCW: Deciduous Wood SCR: Scrub CFW:

HTH: Heathland BOG: Bog or Marsh FLW: Fallow PLO: Ploughed SAS: Set aside OTH: Other

HRT: Horticultural Crops

- 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 CH: Chemical WE: Wetness WK: Workability

DR: Drought **ER**: Erosion Risk **WD**: Soil Wetness/Droughtiness

ST: Topsoil Stoniness

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

Organic Loam SC: Sandy Clay **ZC**: Silty Clay OL: **P**: LP: Loamy Peat Peat SP: Sandy Peat MZ: Marine Light Silts PL: Peaty Sand Peaty Loam PS:

L. Teaty Loan 15. Teaty Saile 142. Waiting Light Sites

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)

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

SI: 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

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

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LP CAN 24 Pit Number : 1P

Grid Reference: TR13905660 Average Annual Rainfall: 672 mm

Accumulated Temperature: 1475 degree days

Field Capacity Level : 141 days
Land Use : Rough Grazing
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	MSZL	10YR32 42	0	3	HR					
25- 42	MZCL	10YR42 54	0	2	HR	F	MDCSAB	FR	M	
42- 80	MZCL	10YR54 00	0	0			MDCSAB	FR	M	
80-100	MZCL	10YR54 00	0	0					M	
100-120	MZCL	10YR54 00	0	5	HR				M	

Wetness Grade: 1 Wetness Class : I

Gleying : cm SPL : No SPL

Drought Grade : 2 APW : 157mm MBW : 37 mm

APP: 122mm MBP: 6 mm

FINAL ALC GRADE : 2

MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name: CANTERBURY LP CAN 24 Pit Number: 2P

Grid Reference: TR14205670 Average Annual Rainfall: 672 mm

Accumulated Temperature: 1475 degree days

Field Capacity Level : 141 days

Land Use : Permanent Grass Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 30	MSZL	10YR32 00	0	5	HR					
30- 62	MZCL	10YR54 00	0	0,		F	MDCSAB	FR	М	
62-120	MZCL	10YR53 54	0	0		С	MDCSAB	FR	M	

Wetness Class : I Wetness Grade: 1

> :062 cm Gleying : No SPL SPL

Drought Grade: 2

APP: 122mm MBP: 6 mm

FINAL ALC GRADE : 2

MAIN LIMITATION: Droughtiness

program: ALC012

LIST OF BORINGS HEADERS 16/06/95 CANTERBURY LP CAN 24

	AMP	LE		A	SPECT				WETN	NESS	-WH	EAT-	-P0	TS-	ı	M. REL	EROSN	FROST	CHEM	ALC	
•	Ю.	GRID	REF	USE		GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	EX	P DIST	LIMIT		COMMENTS
	1	TR1390	05670	RGR					1	1	132	12	112	-4	2				DR	2	Imp 105 flinty
	1P	TR1390	05660	RGR					1	1	157	37	122	6	2				DR	2	Pit80 Augd120
_	2	TR1400	05670	RGR			055		1	1	150	30	118	2	2				DR	2	
_	2P	TR1420	05670	PGR			062		1	1	158	38	122	6	2				DR	2	Pit86 Augd120
	4	TR1420	05670	PGR			050		1	1	156	36	120	4	2				DR	2	
	5	TR1390	05660	RGR					1	1	156	36	120	4	2				DR	2	Pots limit Ap
	6	TR1400	05660	RGR					1	1	158	38	122	6	2				DR	2	Pots limit Ap
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_	9	TR1400)5650	RGR			0		2	2	81	-39	84	-32	38				DR	38	Imp55 disturbd
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	10	TR1410	05650	RGR					1	1	112	-8	115	-1	3A				DR	3A	Impen 80 chalk
	11	TR1410	05640	PGR					1	1	149	29	115	-1	2				DR	2	

page 1

				M	OTTLES	;	PED			-ST	ONES-		STRUCT/	SUBS			
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1	0-25	mc]	10YR32 00							0 1		5					
	25-60	mc]	10YR44 00							0 1		5		M			
	60-90	mzcl -	10YR54 00						0			5		M			
•	90-105	mzcl	10YR54 00						0	0 1	HR	15		М			Impen 105 flinty
1P	0-25	mszl	10YR32 42						0	0 1	HR	3					
	25-42	mzcl	10YR42 54	00MN00	00 F				0	0 1	HR	2	MDCSAB F	R M			
P	42-80	mzcl	10YR54 00						0	0		0	MDCSAB FI	R M			
	80-100	mzcl	10YR54 00						0	0		0		М			
	100-120	mzcl	10YR54 00						0	0	HR	5		М			
2	0-25	mzcl	10YR32 00						0	0 1	HR	5					
_	25-55	mzcl	10YR53 00						0	_		5		м			
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	70-120	mzcl	10YR53 00	10YR58	00 M			Y	0	0		0		M			
5	0-25	mszl	10YR42 00						0	0	HR	3					
•	25-55	mzc1	10YR43 44						0	0	HR	5		М			
	55-120	mzcl	10YR54 00						0	0		0		М			
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----MOTTLES---- PED ----STONES---- STRUCT/ SUBS

					DITLE	S	PEU		210NE2	SIRUCI/	3003
AMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY >2	>6 LITH	TOT CONSIST	STR POR IMP SPL CALC
11	0-25	mcl	10YR32 42					0	O HR	5	
	25-35	mc1	10YR43 00	00MN00	00 F			0	O HR	3	M
	35-120	mzcl	10YR53 00	10YR56	00 F			0	O HR	5	М