LAND AT JUNCTION 27, M5, TIVERTON

On 6.6.90 the Resource Planning Group carried out a reconnaissance agricultural land classification survey of the site previously surveyed by RPS, with a view to confirming their ALC map. The dry conditions made augering into the stoney subsoil impossible at most sites. A box traverse was made around the site, crossing as many of the ALC boundaries mapped by RPS as possible. Very little variation was observed in the topsoils.

The area mapped as grade 2 was confirmed. The 3a areas were also estimated to be correct. The 3b soils were not identified. A pit was dug to a depth of 90 cm in the 3b mapping unit (mid-way between RPS' sample points 6, 7 and 8). This pit was classified as grade 3a.

The main limitation was soil wetness; the profile was gleyed within 40 cm but had no slowly permeable layer within 80 cm and was placed in Wetness Class II. See attached soil pit description.

On the basis of this reconnaissance visit we were unable to confirm the 3b land mapped by RPS. Consequently there may be approaching 20 hectares of Grades 2 and 3A on the site; the confirmation of 3A on the eastern fringe further suggests that there is a cumulative threat to +20 hectares good quality land.

RPG, Bristol
June 1990

JB AGRICULTURAL LAND CLASSIFICATION M5 JUNCTION 27, TIVERTON

SOIL PROFILE DESCRIPTION

Date of Survey 6.6.90

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
1	MCL	10YR4/3	0-27		
	MZCL	10YR4/3	27-80	cdom; WC II	
2	MCL	7.5YR5/4	0-40		
			I	WC I	
3	SZL	10YR4/3	0-35		
	MCL	10YR4/3	35-65	Pale ped faces 10YR5/3; cdom	
			I	WC II	
4	MCL	10YR4/3	0-32		
			I	sst; WC I	
5	MCL	10YR4/3	0-33	RRC	
			I	WC II ?	
6	MCL	10YR4/3	0-33		
			I	sst; WC I ?	
7	MCL	10YR4/3	0-15	Fdom; rrc	
	MCL	10YR5/2	15-33	cdom; WC II	
			I		
8	MCL	10YR4/3	0-18	cdom	
	MCL	10YR5/2	18-35	cdom	
			I	sst; WC II	
9	MCL	10YR4/3	0-38		
			I		
10	MCL	5YR44	0-25		
	MCL	5YR43	25-30		
			I	stones	
11	MCL	5YR44	0-30		
			I		
12	MCL	5YR44	0-30		
			I		

AGRICULTURAL LAND CLASSIFICATION

SOIL PROFILE DESCRIPTION

Date of Survey

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
13	MCL	7.5YR54	0-20		
			I		
14	MCL	7.5YR54	0-15		
			I		

SITE NAME	PROFILE NUMBER	SLOPE AND ASPECT	LAND USE		PARENT MATERIAL
M5 Junction 27 Tiverton	1	Flat	Grass	Av Rainfall :- ATO :- FC Days :- 196 Climatic grade:- 1	
	DATE 6.6.90	GRID REFERENCE			

Horizon Number	Lowest Av Depth	Matrix and Ped Face Colours	Texture	Stoniness: Size, Shape, Type, and Field Method	Mottling Abundance, Contrast Size and Colour	Structure: Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and Form
	28	10YR3/2	MCL	sl st	rrc; cdom	coarse and medium moderate granular	> .5	N/A	Friable	Many	-	-	clear smooth
	46	10YR5/2	MSCL	20% sst visual	cdom - gleyed	coarse and medium moderate sub-angular blocky	< .5 in peds but stone matrix	moderate	Friable	Common	-	-	clear smooth
	90	10YR5//	MSCL	10% sst visual	cdom - gleyed	medium weak sub-angular blocky	> .5	good	Friable	Few	-	-	-

Depth to Slowly Permeable Horizon :- None

Wetness Class :- 2

Wetness Grade :- 2

RPG0023/WJC

Available Water Wheat :-

Potatoes :-

Moisture Deficit Wheat :-

Potatoes :-

Moisture Balance Wheat :-

Potatoes :-

Droughtiness Grade :-

Final ALC Grade :- 3a

Main Limiting Factor(s) :-

Remarks :-