

AGRICULTURAL LAND CLASSIFICATION

TRURO LOCAL PLAN

NANCE FARM/MALPAS AREA

SOIL PROFILE DESCRIPTION

Site 9

6/90 I

Date of Survey 12.2.90 - 20.2.90

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
1	MCL	10YR43	0-25	2% vsst, soft weathered slate	Upper crest slopes
	HCL	10YR43	25-50	2% vsst; 5% from 30; slight colour change.	
	Soft C	10YR54	50-72	20% vsst	Wind pruning
			I		Slight exposure
2	MCL	10YR43	0-25	2% vsst, soft weathered slate	Ditto
	HCL	10YR54	25-40	2% vsst	
	C	10YR54	40-50	10% vsst; soft micaceous C	
	C	2.5Y76	50-78	50% vsst; soft micaceous C	
			I	abundant ochreous weathering colours (presumed not mottling)	
3	MCL	10YR53	0-25	+ 10% sst	Below Crest top
	HCL	10YR54	25-40	5% vsst	
	C	10YR64	40-50	5% vsst; soft micaceous C	Slight exposure
	C	10YR64	50-78	50% vsst; cMn; abundant weathering colours; WC I/II	
4	MCL	10YR43	0-25	2% vsst	Valley slopes below
	HCL	10YR54	25-40	5% vsst	crest
	C	10YR54	40-80+	10% vsst; WC I	Slight Exposure
5	MCL	10YR54	0-22	2% vsst	Minor valley floor
	HCL	10YR53	22-40	2% vsst	Slight Exposure
	C	10YR66	40-80+	10% vsst; poss mottling at 70 cm but masked by weath colours, WC I/II	
6	MCL	10YR43	0-25	2% sst	Ditto
	HCL	10YR54	25-55	2% vsst	Base of 3B slope
	HCL	10YR56	55-80+	5% vsst; no clear evidence of wetness; WC I	
7	MCL	10YR43	0-28	2% sst	Crest Top Slope
	HCL	10YR54	28-40	15% vsst	Wind pruning
	Soil & slate		40-48	approx 50% sst	
			I	(+ 70% slate)	Slight exposure

AGRICULTURAL LAND CLASSIFICATION

Nance Farm/Malpas Area contd...

SOIL PROFILE DESCRIPTION

Date of Survey 12.2.90 - 20.2.90

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
8	MCL	10YR43	0-25	5% vsst	Crest top slopes
	HCL	10YR54	25-40	5% vsst	Wind pruning
	C	10YR66	40-70+	20% vsst; WC I	Slight exposure
9	MCL	10YR43	0-30	Towards HCL; 2% sst	Below Crest Top
	HCL	10YR54	30-40	2% vsst; fMn	Still Exposed
	C	10YR54	40-70+	5% vsst; fMn; abundant weathering colours from 60 cm; WC I	
10	MCL	10YR44	0-25	2% sst	Ditto
	C	10YR66	25-80+	5% vsst; 40% below 60 cm; WC I soft micaceous clay	
11	MCL	10YR43	0-25	5% sst	Lower Crest Slopes
	HCL	10YR54	25-35	5% vsst	At best Slightly
	C	10YR66	35-58 I	20% vsst	Exposed; 6° Slope
12	MCL	10YR43	0-25	5% sst	Well below Crest Top
	HCL	10YR54	25-35	10% vsst	Slight Exposure
	C	2.5Y64	35-70+	15-30% vsst; WC I; soft micaceous clay	
13	MCL	10YR43	0-22	2% sst	6° Slope
	HCL	10YR44	22-35	5% vsst	Upper Crest Slopes
	HCL	10YR54	35-45	5% vsst	Slight Exposure
	C	10YR66	45-65	20% vsst	
	C	2.5Y64	65-80+	20% vsst; soft micaceous clay WC I	
14	MCL	10YR43	0-30	2% sst	Crest Top
	HCL	10YR44	30-35	2% sst	Slight exposure
	C	10YR66	35-45 I	Weathered slate Slate WC I	
15	MZCL	10YR43	0-15	Slaty fragments, weathering colours	
	MZCL	10YR54	15-35	ditto	
	MZCL	10YR66	35-55 I	ditto WC I 2.	

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
16	HLCL	10YR53	0-25	2% sst weathering colours	Soft wet surface
	ZC	10YR64	25-55	ditto	Poor surface drainage
	C	10YR62	55-90+	ditto	close to pond
17	MZCL	10YR44	0-28	2% sst	
	HZCL	7.5YR54	28-68	fMn 2% sst	
	HCL	2.5Y64	68-90+	weathering colours; WC I	6° Slope
18	MCL	10YR54	0-30	2% sst	Sub-crest top but
	HCL	10YR66	30-58	10% sst	open to wind exposure
	C	2.5Y74	58-80+	10% sst WC I	risk
19	MCL	10YR44	0-30	2% sst	Sub-crest top but
	HCL	10YR54	30-78	weathering colours	still exposed
	C	10YR54	78-80+	ditto	
20	MCL	10YR43	0-30	Soft wet surface layer; 5% sst	Very open SW-facing
	HCL	10YR44	30-50	10% vsst	Crest Upper Slopes
	C	2.5Y64	50-80+	15% vsst	Exposed
21	MCL	10YR44	0-30	5% sst	Crest top
	HCL	10YR54	30-35	10% vsst	Exposed
	C	10YR66	35-42	40% vsst	
			I		
21.1	ditto				Ditto
	C	10YR66	35-60+	20% vsst; WC I	
22	MCL	10YR43	0-30	5% sst	Crest Upper slopes
	HCL	10YR54	30-35	10% vsst	Leeward side
	C	2.5Y64	35-80+	10% vsst; possible gleying amidst	Exposed
				dominant ochreous weath colours;	
				WC I/II	
23	MCL	10YR43	0-30	+5% sst; soft wet surface	Crest Upper Slopes
	HCL	10YR54	30-50	5% vsst	SW-facing
	C	1.5Y64	50-80+	20% vsst; WC I/II; possible	Exposed
				wetness at depth	

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
Nos 24 to 33	represent visual estimates of topsoil stone content				
	All have been assessed as 3B (ie + 15% stone greater than 2 cm)				
34	MCL	10YR43	0-30	5% surface stones some >6cm; 2% vsst	Leeward slope
	MCL	10YR44	30-35	increasing stone content	Moderately sheltered
			I, 30, 30, 30	slate WC I	but wind pruning at 10'
35	MCL	10YR43	0-30	5% surface stones	Crest top
	HCL	10YR44	30-35	2% vsst	Exposed
	C	7.5YR44	35-60		
			60+	Weathered slate >70% WC I	
36	MCL	10YR43	0-30	2% surface stones; 2% vsst	Moderate exposure
	HCL	10YR44	30-35		risk
			35+	weathered slate >70% WC I (x 2)	
37	MCL	10YR43	0-30		
			30+	weathered slate 70% (x 2)	Leeward slope
				WC I	moderately sheltered
38	HCL	10YR43	0-28	10% surface stones, some >6 cm	Crest Upper Slopes
	C	10YR44	28-35	5% vsst	Very exposed
			35+	weathered slate WC I	
39	MCL	10YR43	0-30	10% surface stones; 2% vsst	Crest upper slopes
	HCL	10YR44	30-35	2% vsst	SW-facing, exposed
			35+	weathered slate WC I	Boundary of 3A/3B slopes
40	MCL	10YR43	0-28	10% surface stones	As 39
	HCL	7.5YR44	28-35	5% vsst	
	C		35-40		
			40+	weathered slate WC 1	
41	MCL	7.5YR54	0-25	5% surface stones; 2% vsst	as 39
	HCL	7.5YR44	25-30	2% vsst	
	C	5YR44	30-35	2% vsst	
			35+	weathered slate WC I	

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Nance Farm/Malpas Area

SOIL PROFILE DESCRIPTION

Date of Survey 12.2.90 - 20.2.90

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
42	MCL	7.5YR44	0-25	5% surface stones	As 39
	HCL	7.5YR43	25-35		
	C	7.5YR43	35-45		
			45+	weathered slate WC I	
43	MCL	10YR43	0-30	less than 10% sst	Crest Top
	HCL	10YR54	30-40	10% vsst	Exposed
	C	10YR66	40-60+	30% vsst; WC I	
44	MCL	10YR43	0-30	less than 10% sst	Crest Top
	HCL	10YR54	30-42	10% vsst; 50% from 35 cm; +70% from	Exposed
			I	40 cm	
45	MCL	10YR43	0-30		
	HCL	10YR44	30-40	weathering colours from 35 cm	
			I, 20, 25 stones		
46	MCL	10YR43	0-30		
	HCL	10YR44	30-38		
	C	10YR66	38-50	WC I	
			I	Stones	
47	HCL	10YR43	0-22		Crest Top
	C	7.5YR44	22-38	10% vsst WC I	Exposed
			38+	Weathered slate	
48	MCL	10YR43	0-25	2% sst	Crest Top
	HCL	10YR44	25-40+	2% st WC I	Exposed
49	MCL	10YR43	0-28	2% vsst	Crest Top
	HCL	10YR44	28-40	2% vsst	Exposed
	C		40-45	Weathered slate	
	C		45-60	40% weathered slate	
			I, 40	WC I	
50	MCL	10YR43	0-30	2% sst	Lower Crest Slopes
	HCL	10YR54	30-55	10% vsst	SW-Facing
	C	10YR66	55-72	20% vsst	Exposed

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
51	MCL	10YR43	0-30	2% sst	Lower Crest Slopes
	HCL	10YR44	30-40	2% vsst	SE-facing
	HCL	10YR54	40-55	5% vsst	No evident low level
	C	10YR64	55-80+	10% vsst	pruning; Slightly Exposed. 7° slope
52	MCL	10YR44	0-25	2% sst	Lower Crest Slopes; 6½°
	HCL	10YR44	25-45	Slight colour change; 5% vsst	SE-facing; edge of
	C	2.5Y64	45-65	10% vsst	minor sheltered valley
	C	2.5Y64	65-80+	soft, micaceous; 50% vsst	Slightly Exposed
53	MCL	10YR44	0-25	2% sst	Lower Crest Slopes,
	HCL	10YR54	25-50	5% vsst	6½-7° SE-facing;
	C	10YR66	50-70	10% vsst	slight wind pruning + 10'
	C	2.5Y64	70-80+	15% vsst; WC I	Slightly Exposed
54	MCL	10YR43	0-25	2% sst	Upper Crest Slope;
	HCL	10YR54	25-65	5% vsst	6-6½° NE facing;
	C	10YR66	65-80+	10% vsst; WC I	Leeward side of Crest Top
					Slightly exposed (close to exposed boundary)
55	MCL	10YR44	0-25	2% sst	SE-facing Crest Slope
	HCL	10YR54	25-45	5% vsst	4°; evident pruning
	C	10YR66	45-58	10% vsst	over 10'
			I	(2nd Imp at 42 cm)	Exposed
56	MCL	10YR43	0-25	Local stone + 10% sst	Lower Crest Slopes, 5½°
	HCL	10YR54	25-45	10% vsst	Edge of minor valley;
	C	2.5Y64	45-70+	20% vsst	No clear pruning below 20'; Slightly exposed
56.1	MCL	10YR43	0-30	+ 10% surface sst	
	Weathered	slate	30-32		

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
57	MCL	10YR43	0-25	5% sst	Sheltered stream
	HCL	7.5YR54	25-70	2% vsst	floodplain; possibly
	C	10YR66	70-80+	10% vsst; possible wetness	only slight exposure
				WC I	up SW Valley corridor
58	MCL	10YR43	0-30	2% sst	SE-facing 4½° slope
	HCL	10YR54	30-50	2% vsst	above SW-running
	C	10YR66	50-80+	2% vsst	valley; clear pruning
					+ 8'. Exposed
59	MCL	10YR43	0-25	2% sst	Significantly less
	HCL	10YR54	25-45	5% vsst	exposed than ASP 58;
	C	2.5Y64	45-58	20% vsst	Sheltered from Valley
		Weathered Slate	58-60		exposure; Slightly
			I		exposed
60	MCL	10YR43	0-30	2% sst	SE-facing Upper Crest
	HCL	10YR54	30-50	15% vsst	6° slope, leeward side
	C	10YR66	50-80+	20% vsst	of crest top;
					Slightly exposed
61	MCL	10YR43	0-30		E-facing Upper slopes
	HCL	10YR44	30-60		of valley; 5½°
	C	2.5Y64	60-80+	Soft micaceous	Slightly exposed
62	MCL	10YR43	0-25	2% sst	NE-facing Upper Crest
	HCL	10YR54	25-35	10% vsst	Slope, 4°; Slightly
			I	(2 less than 35 cm)	Exposed
63	MCL	10YR43	0-25	5% sst	SW-facing Upper Crest
	HCL	10YR54	25-45	5% vsst	Slope, 6°; Significant
	C	2.5Y64	45-60	20% vsst, soft, micaceous, WC I	pruning at 10'
			I		Exposed
64	MCL	10YR44	0-30	2% sst	S-facing slope of
	HCL	7.5YR54	30-45	2% vsst	minor valley, 4½°
	C	10YR66	45-80+	2.5Y64 below 60 cm; 10% vsst, WC I	Slightly exposed

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NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
65	MCL	2.5Y62	0-20	2% sst; cdogm	Stream floodplain
	ZC	10YR62	20-50+	fMn; cdom; SPL; WC IV	Yellowing of cereal crop At worst, slightl exposed
66	MCL	10YR43	0-28	2% sst	S-facing Lower Crest
	HCL	10YR44	28-40	10% vsst	slope; raised above
	C	2.5Y64	40-80+	soft, micaceous; 30% vsst; WCI	stream floodplain 6½-7° slightly exposed
67	MCL	10YR44	0-28	5% sst; poached & puddled surface	SW-facing Lower Crest
	HCL	7.5YR54	28-60	5% vsst	Slopes, 4°; Slightly
	C	10YR66	60-80+	and 2.5Y64, 15% vsst; WC I	exposed but becoming open to SW winds up Valley
68	MCL	2.5Y62	0-25	cdom; poached & puddled surface	Stream floodplain
	HCL	10YR62	25-35	cdom; 2% vsst	Slight exposure from
	C	2.5YN7	35-50	cdom; 5% vsst	valley corridor winds
	C	2.5Y64	50-80+	20% vsst; abundant weathering colours and possible mottling; No SPL WC III	SW-facing, 4° slope
69	MZCL	10YR42	0-25	cdogm	Stream floodplain
	ZC	10YR62	25-50+	cdom; SPL; 2% vsst, WC IV	Opposite bank to ASP 68
70	MCL	10YR43	0-25	2% sst	E-facing Lower Crest
	HCL	7.5YR54	25-48	5% vsst	Slope, 5½°;
	C	10YR66	48-80+	15% vsst; WC I	Slightly Exposed
71	MCL	10YR43	0-25	5% sst	SW-facing Upper Crest
	HCL	10YR54	25-40	5% vsst	Slopes, 5°; close to
	C	10YR66	40-60	15% vsst; slate and hard stone (2nd Imp at 48 cm)	significant wind pruning along road Exposed

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Date of Survey 12.1.90 - 20.2.90

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
72	MCL	10YR43	0-25	5% sst	S-facing Upper Crest
	HCL	10YR44	25-50	5% vsst	Slopes, 5½°; very
	C	10YR44	50-60	10% vsst	open; significant
	C	10YR66	60-70	15% vsst	pruning at roadside
	C	2.5Y64	70-80+	20% slate and hard stone; WC T	Exposed
73	MCL	10YR43	0-28	2% sst	SW-facing Upper Crest
	HCL	7.5YR54	28-60	10% vsst	Slopes, 6½°; Long
	C	10YR66	60-80+	15% vsst; WC i	Valley fetch, Exposed
74	MCL	10YR43	0-25	2% sst	SW-facing Upper Crest
	C	10YR44	25-45	10% vsst	Slope
	C	2.5Y64	45-62	30% vsst	Exposed
			I		
75	MCL	10YR33	0-30		Crest Top; very open
			I	(3 less than 30 cm)	fetch; significant
					pruning + 10'
					Exposed
76	MCL	10YR43	0-28		West facing Upper
	Soil and +30% slate		28-30		Crest Slopes, 3½°
			I	(others Imp at 30, 25, 20 cm)	Significant pruning
					+ 10
					Exposed
77	MCL	10YR43	0-28		W-facing Upper Crest
			I	(2nd Imp at 25 cm)	Slope; 5°;
					Significant pruning
					+10'
					Exposed
78	MCL	10YR43	0-25	towards HCL	W-facing Upper Crest
	HCL	10YR44	25-40	2% vsst	Slope, 3°
	C	2.5Y64	40-60	50% slate, WR from 50 cm	Significant pruning
			I	perhaps WC III	+10
					Exposed
79-82	missing				

TRURO LOCAL PLAN
NANCE FARM/MALPAS AREA

Site 9

ASP NO	LIMITING FACTOR(S)	ALC GRADE	MAP UNIT	ASP NO	LIMITING FACTOR(S)	ALC GRADE	MAP UNIT
1-3	Exposure	3A	3A				
4-6	Exposure/Workability	2	2				
7-8	Exposure	3A	3A				
9-13	Exposure/Workability	2	2				
14	Exposure	A	A				
15	Exposure	A	B				
16	Wetness	3B	3B				
17-19	Exposure/Workability	2	2				
20-23	Exposure	3A	3A				
24-33	Stoniness	3B	3B				
34-38	Exposure	3A	3A				
39	Slope	3B	3B				
40-50	Exposure	3A	3A				
51-54	Exposure/Workability	2	2				
55	Exposure	3A	3A				
56	Stoniness	3A	3A				
57	Exposure/Workability	2	2				
58	Exposure	3A	3A				
59-62	Exposure/Workability	2	2				
63	Exposure	3A	3A				
64	Exposure/Workability	2	2				
65	Wetness	3B	3B				
66-67	Exposure/Workability	2	2				
68	Wetness	3A	3B				
69	Wetness	3B	3B				
70	Exposure/Workability	2	2				
71/77	Exposure	3A	3A				
78	Wetness/Exposure	3A	3A				

SOIL PROFILE DESCRIPTION

Date of Survey 15.2.90

NO	TEXTURE	COLOUR	DEPTH (CM)	SOIL PROFILE NOTES	TOPOGRAPHY NOTES
183	MCL	10YR5/3	0-20	Rusty root channels	
	HCL	10YR5/4	20-50		
	C	2.5YR6/4	50-90	cdom; SPL; WCIII	
284	HCL	10YR5/3	0-30	Rusty root channels	
	C	2.5Y6/4	30-60	cdom; No SPL; WCIII	
			I		
385	MCL	10YR4/3	0-15	Rusty root channels	
	HCL	10YR4/3	15-30		
	C	10YR4/4	30-90+	WCI	
486	MCL	10YR4/3	0-20		10° slope
	HCL	10YR4/4	20-65	WCI	
			I		
587	MCL	10YR4/4	0-35		
	C	10YR5/6	WCI 35-60+ wci		
688	MCL	10YR4/3	0-25		9° slope
	HCL	10YR4/4	25-50		
			I		
789	MCL	10YR4/3	0-30		5° slope above
			I		7° slope below

SITE NAME: TRURO LOCAL PLAN NANCE FARM Area
 PROFILE NUMBER: 1
 SLOPE AND ASPECT: NE-facing, 4° Slope, Sheltered
 LAND USE: Cultivated land
 Av Rainfall :- 1118
 ATO :- 1566
 FC Days :- 217
 Climatic grade:- 1
 PARENT MARIAL: Slate

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
Topsoil	0-28	10YR4/3	MCL	2% (less than 2cm) slate; visual	None							None	Sharp Distinct
Sub 1	28-40	10YR4/4	HCL	15% (less than 2cm; visual)	None	Assumed good (see Sub 3)						None	Sharp Distinct
Sub 2	40-50	10YR5/4	HCL	20% (less than 2cm; visual)	None	Ditto						None	Sharp Distinct
Sub 3	50-90+	2.5Y/6.4	C	25% (less than 2cm; visual)	Soft and Micaceous	Structure	v. indistinct in undisturbed soil; into weakly developed	Good Firm	Firm	Medium		None	Subangular Blocky

Pit dug to 90 cm; augering to 120 cm revealed continuation of Subsoil 3

Depth to Slowly Permeable Horizon :- None Present Not Gleyed
 Wetness Class :- I
 Wetness Grade :- 2 (MCL texture)

Available Water Wheat :- 172 mm
 Potatoes :-
 Moisture Deficit Wheat :- 91 mm
 Potatoes :-
 Moisture Deficit Wheat :- + 81 mm
 Potatoes :-
 Droughtiness Grade :- 1

(Using TAV/EAV for Stone of 4%; i.e. "Soft weathered igneous or metamorphic")

Final ALC Grade :- 2
 Main Limiting Factor(s) :- Wetness/Workability and Exposure

Remarks :- * Well below upper crest slopes; no wind pruning on adjacent trees; Slight Exposure Risk.

SITE NAME Ruro Local Plan ance Farm Area	PROFILE NUMBER 2	SLOPE AND ASPECT 5° Slope NNE-facing	LAND USE Cultivated Land	Av Rainfall :- 1118 ATO :- 1566 FC Days :- 217 Climatic grade:- 1	PARENT MARIAL Slate
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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
Topsoil	0-28	10YR4/3	MCL	2% stone (less than 2cm; visual)	None								None Sharp Distinct
Sub 1	28-50	10YR5/4	HCL	10% stone (less than 2cm; visual)	None								None Ditto
Sub 2	50-65+	2.5Y/6/4	C	30% stone (less than 2cm; visual) Soft and Micaceous	None			Very difficult to obtain any structural samples because of very high stone content; soil in auger head falls apart easily; structure similar to Pit 1 assumed Good					None Firm

Pit dug to 65cm; augering to 100cm revealed continuation of Subsoil 2; Impermeable below 100cm

Depth to Slowly Permeable Horizon :- None Present Not Gleyed	Available Water Wheat :- Not Limiting (cf. Pit 1)	Final ALC Grade :- 2 2
Wetness Class :- I	Moisture Deficit Wheat :-	Main Limiting Factor(s) :- Exposure * / Workability
Wetness Grade :- 2 (MCL Texture)	Potatoes :-	
	Moisture Deficit Wheat :-	
	Potatoes :-	
	Droughtiness Grade :-	

* leeward side of Crest top; but not sheltered; topographic shoulder; Exposed slightly exposed at worst; suitable for field veg; bulbs; polythene tunnels.