

SITE NAME St Agnes		PROFILE NO. Pit 1		SLOPE AND ASPECT 0°		LAND USE Perm Pasture		Av Rainfall: 1026 mm ATO: 1490 deg FC Days: 201 Climatic Grade: 1			PARENT MATERIAL Ladock Beds/Grampound Grit		
JOB NO. 41/93		DATE 10 Aug 93		GRID REFERENCE ASP45 SW 726 500		DESCRIBED BY G Clark/G Shaw							
Horizon Number	Lowest Av Depth (cm)	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
1	50	7.5YR32	MCL	<1% HR	None	-	Good	-	-	Common v fine	none	none	Smooth clear
2	85	7.5YR44	C	20% HR (stone) 10% >2 cm 10% <2cm sieved/displ	none few weathering colours associated with stones	WM+CSAB	good	moderate and good	Friable	few, very fine	none	none	

Profile Gleyed From: not

Depth to Slowly Permeable Horizon: none

Wetness Class: I

Wetness Grade: 2

Available Water Wheat: 135

Potatoes: 115

Moisture Deficit Wheat: 87

Potatoes: 75

Moisture Balance Wheat: 48

Potatoes: 40

Droughtiness Grade: 1

Final ALC Grade: 2

Main Limiting Factor(s): Workability

Remarks:

Risk from exposure probably Grade 2. Topsoil clay content 28% by PSD; within % error so left as MCL.

SITE NAME St Agnes		PROFILE NO. Pit 2	SLOPE AND ASPECT 0°	LAND USE Grass Ley	Av Rainfall: 1026 mm ATO: 1490 deg FC Days: 201 Climatic Grade: 1		PARENT MATERIAL Ladock Beds/Grampound Grit		
JOB NO. 41/93		DATE 10 Aug 93	GRID REFERENCE ASP 38 SW716500	DESCRIBED BY Nigel Done					

Horizon Number	Lowest Av Depth (cm)	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
1	30	10YR44	MCL	3% HR Total sieved	-	-	Many	-	-	Many fine + medium	None	None	Clear/smooth
2	45	25YR54 25YR54+ large reddish lens of slightly sandier texture	C	4% HR (few ZR) sieved	Few 10YR68	WCSAB	>0.5% earth worm holes	Moderate	Friable	Many fine	None	Few	Clear/wavy
3	80+	25YR64 Also reddish lens of ZR	MCL	5% ZR mostly <2cm als 2% HR >2cm (quartz) sieved	Common distinct 10YR68	WCSAB slight tendency to platy	<0.5% pores few fissures round stones	Poor	Firm	Common fine	none	none	

Profile Gleyed From: 45cm	Available Water	Wheat: 101mm	Final ALC Grade: Wetness
Depth to Slowly Permeable Horizon: 45cm		Potatoes: 104mm	Main Limiting Factor(s): 3A
Wetness Class: III	Moisture Deficit	Wheat: 87mm Potatoes: 75mm	
Wetness Grade: 3A	Moisture Balance	Wheat: 14mm Potatoes: 29mm	Remarks: Topsoil clay content 27%
	Droughtiness Grade:	2	

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 1026 mm			PARENT MATERIAL		
St Agnes		Pit 3		0°		Perm Grass		ATO: 1490 deg			Ladock Beds/Grampound Grit		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 201					
41/93		11 Aug 93		ASP73 SW 731496		GJC/GMS		Climatic Grade: 1					
Horizon Number	Lowest Av Depth (cm)	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
1	25	10YR43	MCL	1% HR (dry sieve) virtually 0 % >2cm	none	-	good	-	-	Few medium; many very fine; few fine	none	none	Clear smooth
2	70+	2.5YR48 and 2.5YR56 pebbles	MCL	1% HR/ZR >2cm dry sieve 27% <2cm wet sieve HR/ZR	none	MCSAB	poor biopores	moderate	Friable	Few fine, few very fine to depth	none	none	

Profile Gleyed From: not gleyed

Depth to Slowly Permeable Horizon: none

Wetness Class: 1

Wetness Grade: 2

Available Water Wheat: 116mm

Potatoes: 98mm

Moisture Deficit Wheat: 87mm

Potatoes: 75mm

Moisture Balance Wheat: 29mm

Potatoes: 23

Droughtiness Grade: 2

Final ALC Grade: 2

Main Limiting Factor(s): Workability

Remarks: Pit dug to 70cm

Topsoil texture by PSD.