

SITE NAME Kingskerswell		PROFILE NO. Pit 1 (Asp 33)	SLOPE AND ASPECT 4 ° NE	LAND USE Cer (failed)	Av Rainfall: 977 mm ATO: 1566 day °C FC Days: 205 Climatic Grade: 1 Exposure Grade: 1	PARENT MATERIAL Watcombe Breccia
JOB NO. 15.99		DATE 17.3.99	GRID REFERENCE SX 8728 6824	DESCRIBED BY PB		PSD SAMPLES TAKEN TS 0-25 cm : HCL (S35: Z35: C30%)

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	26	HCL	2.5YR4/4	2% > 2 cm (v) 13% < 2 cm (s+d) 15% HR	0	0	-	-	-	-	FF,VF	-	Clear Smooth
2	65	C	2.5YR4/4	1% > 2 cm (v) 13% < 2 cm (s+d) 14% HR	0	0	WKCSAB	FM	M	G(low)	FVF	-	Grad Smooth
3	96+	C	10R4/4	1% > 2 cm (v) 27% < 2 cm (s+d) 28% HR	0	C	M	FM	P	P	FVF	-	

Profile Gleyed From: Not gleyed

Slowly Permeable Horizon From: No spl

Wetness Class: I

Wetness Grade: 3a

Available Water Wheat: 113 mm

Potatoes: 99 mm

Moisture Deficit Wheat: 105 mm

Potatoes: 99 mm

Moisture Balance Wheat: +8 mm

Potatoes: 0 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 3a

Main Limiting Factor(s): Wk

Remarks:

SITE NAME Kingskerswell		PROFILE NO. Pit 2 (Ap 90)	SLOPE AND ASPECT 2° E	LAND USE PGR	Av Rainfall: 979 mm ATO: 1555 day °C	PARENT MATERIAL Alluvium	
JOB NO. 15.99		DATE 18.3.99	GRID REFERENCE SX 8807 6692	DESCRIBED BY PB	FC Days: 200 Climatic Grade: 1 Exposure Grade: 1	PSD SAMPLES TAKEN TS 0-25 cm : HCL (S24: Z43: C33%)	

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	25	HCL	7.5YR4/3	5% HR (v)	0	0	-	-	-	-	CF, VF	-	Clear Smooth
2	45	C	7.5YR5/4	15% HR (v)	0	0	WKCSAB	FR	M	G	FVF	-	Grad Smooth
3	75	C	7.5YR5/4.5/3 (10YR7/3)	20% HR (v)	CFMO 7.5YR6/6	C (Distinct)	WKCSAB	FR	M	G	FVF	-	Grad Smooth
4	96+	C	5YR5/4	30% HR (v)	0	0	M	FR	P	P (Low)	0	-	

Profile Gleyed From: 45 - 75 cm	Available Water	Wheat: 116 mm	Final ALC Grade: 3a
Slowly Permeable Horizon From: 75 cm		Potatoes: 103 mm	Main Limiting Factor(s): We
Wetness Class: II/I	Moisture Deficit	Wheat: 105 mm	
Wetness Grade: 3a		Potatoes: 99 mm	
	Moisture Balance	Wheat: +11 mm	
		Potatoes: +4 mm	
	Droughtiness Grade: 1	(Calculated to 120 cm)	Remarks: Pit filled with water to 60 cm H3 dubious gleyed H4 unconvincing SPL therefore borderline WCI

SITE NAME Kingskerswell		PROFILE NO. Pit 3 (Nr Asp 9)	SLOPE AND ASPECT 0°	LAND USE PGR	Av Rainfall: 943 mm ATO: 1594 day °C FC Days: 195 Climatic Grade: 1 Exposure Grade: 1	PARENT MATERIAL Alluvium
JOB NO. 15.99		DATE 18.3.99	GRID REFERENCE SX 8762 6878	DESCRIBED BY PB		PSD SAMPLES TAKEN None

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	15	HCL	5YR5/3,4/3	0	CDFO 10YR4/6	0	-	-	-	-	MF, VF	-	Clear Smooth
2	30	C	2.5YR5/4 (5YR6/4)	5% HR (v)	CDFO 10YR5/8	C	MDCPR	FM	P	G (Low)	CF, VF	-	Grad Smooth
3	50	C	2.5YR5/4 (2.5YR5/3)	2% HR (v)	0	F/C	MDCPR	FM	P	P	FF, VF	-	Grad Smooth
4	80+	C	2.5YR5/6,5/4 (2.5YR5/4)	5% HR (v)	0	F/C	WKCPR	FM	P	P	FF, VF	-	

Profile Gleyed From: 0 to 50 cm	Available Water	Wheat: 118 mm	Final ALC Grade: 4
Slowly Permeable Horizon From: 30 cm		Potatoes: 96 mm	Main Limiting Factor(s): We
Wetness Class: IV	Moisture Deficit	Wheat: 105 mm	
Wetness Grade: 4		Potatoes: 99 mm	Remarks:
	Moisture Balance	Wheat: +13 mm	
		Potatoes: -3 mm	
	Droughtiness Grade: 2	(Calculated to 120 cm)	

SITE NAME Kingskersewll		PROFILE NO. Pit 4 (Asp 97/102)	SLOPE AND ASPECT 6° E	LAND USE PGR	Av Rainfall: 1046 mm ATO: 1494 day °C FC Days: 210 Climatic Grade: 1 Exposure Grade: 1	PARENT MATERIAL Watcombe Breccia
JOB NO. 15.99		DATE 19.3.99	GRID REFERENCE SX 89266674	DESCRIBED BY PB		PSD SAMPLES TAKEN TS 0-25 cm: SZL/MCL (S44:Z39: C17%)

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	24	SZLMCL	2.5YR4/4	1% > 2 cm (v) 13% < 2 cm (s+d) 14% HR	0	0	-	-	-	-	CF, VF	-	Clear Smooth
2	60	(S) C	2.5YR4/4	1% > 2 cm (v) 32% < 2 cm (s+d) 33% HR	0	0	WKCPR Br to WKCSAB	FR	M	G	FF, VF	-	Grad Smooth
3	102+	(S) C	10R4/4	1% > 2 cm (v) 27% < 2 cm (s+d) 28% HR	0	C	WKCSAB	FR	M	G	FF, VF	-	

Profile Gleyed From: Not gleyed

Slowly Permeable Horizon From: No SPL

Wetness Class: I

Wetness Grade: 1/2

Available Water Wheat: 115 mm

Potatoes: 86 mm

Moisture Deficit Wheat: 89 mm

Potatoes: 77 mm

Moisture Balance Wheat: +26 mm

Potatoes: +9 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 2

Main Limiting Factor(s): Dr. (Wk)

Remarks: Augered to 120 cm

SITE NAME Kingskerswell		PROFILE NO. Pit 5 (Nr Asp 52)	SLOPE AND ASPECT 6 ° S	LAND USE PGR	Av Rainfall: 979 mm ATO: 1555 day °C FC Days: 200 Climatic Grade: 1 Exposure Grade: 1	PARENT MATERIAL Oddicombe Breccia
JOB NO. 15.99		DATE 19.3.99	GRID REFERENCE SX 8846 6783	DESCRIBED BY PB		PSD SAMPLES TAKEN TS 0-25 cm: SCL/MCL (S51: Z26:C23%)

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	25	SCLMCL	7.5YR4/2	10% HR (v)	0	0	-	-	-	-	MF, VF	-	Clear Smooth
2	52	HCL	7.5YR5/4	20% HR (v)	0	0	MDCSAB	FR	M	G	CF, VF	-	Grad Wavy
3	70	C	7.5YR5/3,5/4	20% HR (v)	CDFDM 7.5YR5/6	F	WKCSAB	FR	M	G	CVF	-	Grad Smooth
4	86+	C	7.5YR5/3,6/3	20% HR (v)	MDCDM 7.5YR5/6	C	WKVCSAB	FM	P	G	FVF	-	

Profile Gleyed From: 52 cm	Available Water	Wheat: 115 mm	Final ALC Grade: 3a
Slowly Permeable Horizon From: No SPL		Potatoes: 99 mm	Main Limiting Factor(s): We
Wetness Class: II	Moisture Deficit	Wheat: 105 mm	
Wetness Grade: 3a		Potatoes: 99 mm	
	Moisture Balance	Wheat: +10 mm	Remarks: H4 BL SPL therefore WCII H4 variable texture: distinct sandy patches
		Potatoes: 0 mm	
	Droughtiness Grade: 2	(Calculated to 120 cm)	