

| SITE NAME Perranporth | | PROFILE NO. Pit 1 | | SLOPE AND ASPECT 0° | | LAND USE Cereal stubble | | Av Rainfall: 1031 mm ATO: 1592° FC Days: 202 Climatic Grade: 1 | | | PARENT MATERIAL Ladock Beds | | |
|--------------------------|----------------------|-----------------------------|---------|--|---|---------------------------------------|--------------------|---|-------------|-----------------------------------|--------------------------------|------------------|---|
| JOB NO. 40/93 | | DATE 18/8/93 | | GRID REFERENCE ASP 36 SW758536 | | DESCRIBED BY GMS | | | | | TOPSOIL SAMPLE RPT/GMS 230 | | |
| 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 | 24 | 7.5YR34 | MCL | 1% >2cm HR 2% Total HR sieved | None | MM+CSAB | Good | - | Friable | Many fine | Yes | None | Clear smooth |
| 2 | 37 | 7.5YR34 | SCL | 36% >2mm HR Some ZR sieved/displ | None | WFSAB | Good | Good | Friable | Many fine | Yes | None | Clear smooth |
| 3 | 60+ | 7.5YR54 | CSL | 60% >2cm HR Some ZR sieved/displ | None | WFSAB | Good | Good | Friable | Few fine | Yes | None | - |

Profile Gleyed From: Not

Depth to Slowly Permeable Horizon: None

Wetness Class: 1

Wetness Grade: 2

Available Water Wheat: 115 mm

Potatoes: 90 mm

Moisture Deficit Wheat: 97 mm

Potatoes: 88 mm

Moisture Balance Wheat: +18 mm

Potatoes: +2 mm

Droughtiness Grade: 2 (to 120 cm)

Final ALC Grade: 2

Main Limiting Factor(s): Workability/droughtiness

Remarks:

Risk from exposure.
Pit dug to 60 cm.

| SITE NAME Perranporth | | PROFILE NO. Pit 3 | SLOPE AND ASPECT 4° NW | | LAND USE Rough grazing | | Av Rainfall: 1031 mm ATO: 1592° FC Days: 202 Climatic Grade: 1 | | | PARENT MATERIAL Ladock Beds | | | |
|--------------------------|----------------------|--|------------------------------------|--|---|--|---|----------------------|-------------|-----------------------------------|---------------------------|------------------|---|
| JOB NO. 40/93 | | DATE 25/11/93 | GRID REFERENCE ASP 119 SW752521 | | DESCRIBED BY Nigel Done | | TOPSOIL SAMPLE RPT/GC 119 | | | | | | |
| 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 | 20 | 10YR43 | MCL | 5% ZR >2cm 5% ZR <2cm 10% Total | - | - | - | - | - | Many | - | None | Clear/ smooth |
| 2 | 35 | 10YR44 | MZCL | 45% HR >2cm 15% HR <2cm 60% Total | - | Stru mainly determined by stone content (WDMSAB) | Many pores and fissures | Good | Friable | Many fine | - | None | Clear/ irregular |
| 3 | 45+ | Stone bed of solid rock, common roots observed to 45 cm, below which impenetrable. Assume >70% Hard Rock but platy. Assume roots to 60 cm. | | | | | | | | | | | |

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 2

Available Water Wheat: 46 mm

Potatoes: 46 mm

Moisture Deficit Wheat: 97 mm

Potatoes: 88 mm

Moisture Balance Wheat: -51 mm

Potatoes: -42 mm

Droughtiness Grade: 3b

Final ALC Grade: 3b

Main Limiting Factor(s): Droughtiness

Remarks:

At least 3a exposure.

| SITE NAME | | PROFILE NO. | | SLOPE AND ASPECT | | LAND USE | | Av Rainfall: 1031 mm | | | PARENT MATERIAL | | |
|----------------|----------------------|-----------------------------|---------|--|---|---------------------------------------|--------------------|----------------------|-------------|-----------------------------------|---------------------------|------------------|---|
| Perranporth | | Pit 2 | | 7° N | | Permanent grass | | ATO: 1592° | | | Ladock Beds | | |
| JOB NO. | | DATE | | GRID REFERENCE | | DESCRIBED BY | | FC Days: 202 | | | TOPSOIL SAMPLE | | |
| 40/93 | | 25/11/93 | | ASP 89 SW764528 | | PB/NAD | | Climatic Grade: 1 | | | RPT/PB5 | | |
| 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 | 20 | 10YR43 | MCL | 0% | None | MFSAB | Many | - \ | Friable | Many fine and v fine | No | None | Clear smooth |
| 2 | 45 | 10YR44 | MCL | 15% visual HR | None | MFSAB | Many | Good | Friable | Common fine and v fine | No | None | Gradual smooth |
| 3 | 95 | 7.5YR54 | HCL | 40% visual HR | None | WM+CSAB | >1/2% | Mod | Firm | Few fine + v fine | No | None | - |

Profile Gleyed From: None

Depth to Slowly Permeable Horizon: None

Wetness Class: 1

Wetness Grade: 2

Available Water Wheat: 114 mm

Potatoes: 106 mm

Moisture Deficit Wheat: 97 mm

Potatoes: 88 mm

Moisture Balance Wheat: 17 mm

Potatoes: 18 mm

Droughtiness Grade: 2

Final ALC Grade: 2

Main Limiting Factor(s): Workability, droughtiness

Remarks: