

STALBRIDGE LOCAL PLAN, DORSET  
SOIL PIT DESCRIPTION

Pit 1 MR 734173

Topsoil	0-23cm	Heavy Clay Loam 10YR 4/3 brown Few distinct ochreous mottles Few manganese concretions <1% stones 2-6 cm
Subsoil 1	23-36cm	Clay 10YR 5/4 yellowish brown Few Faint ochreous mottles Few manganese concretions <1% stones 2-6 cm Moderate Coarse subangular blocky structure Friable <0.5% biopores of >0.5 mm
Subsoil 2	36-85cm	Clay 2.5Y5/4 light olive brown; pale faces below 50 cm Common distinct ochreous mottles Few manganese concretions <1% stones 2-6 cm Weak coarse subangular blocky structure Firm <0.5% biopores of >0.5 mm SPL from 40 cm; Gleyed from 50 cm

Wetness Class III; 3b

STALBRIDGE LOCAL PLAN, DORSET

SOIL PIT DESCRIPTION

Pit 2 MR 735173

Topsoil	0-27cm	Heavy Clay Loam 10YR4/3 brown <1% stones 2-6 cm
Subsoil 1	27-40cm	Clay 10YR4/6 dark yellowish brown 30% stones 2-6cm; 5% stones <2 cm Moderate Coarse Subangular Blocky Structure Friable <0.5% biopores of >0.5 mm
Subsoil 2	40 cm +	Limestone with cracks <10% soil

Moisture balance calculations:-

Topsoil	0-27 cm	HCL	TAV 17, no stones	$17 \times 27 = 459$
Subsoil 1	27-40 cm	C	TAV 16, stone AVR 1 : $(0.65 \times 16) + (0.35 \times 1) \times 13 = 139.75$	
Subsoil 2	40-50 cm	C	TAV 16, 90% stone AVR:1 $(0.1 \times 16) + (0.9 \times 1) \times 10 = 25$	
				<u>623.75</u>
Subsoil 3w	50-120 cm	C	EAV 8, 90% stones AVR 0.5: $(0.1 \times 8) + (0.9 \times 0.5) \times 70 = 87.5$	
Subsoil 3p	50-70 cm	C	TAV 16, 90% stone AVR 1: $(0.1 \times 16) + (0.9 \times 1) \times 20 = 50$	

AP wheat =  $(623.75 + 87.5)/10 = 71.25$

AP potatoes =  $(623.75 + 50)/10 = 67.38$

MB wheat =  $71 - 101 = -30$  (3b)

MB potatoes =  $67 - 92 = -25$  (3a)

STALBRIDGE LOCAL PLAN, DORSET

SOIL PIT DESCRIPTION

Pit 3 MR 740182

Topsoil	0-20 cm	Heavy Clay Loam 2.5Y3/2 Very dark greyish brown Common rusty root channels
Subsoil 1	20-40	Clay 2.5Y5/4 Light olive brown Common distinct ochreous mottles Moderate medium prismatic structure Firm <0.5% biopores of > 0.5 mm Slowly permeable layer
Subsoil 2	40-100 cm	Clay 2.5Y5/4 Light olive brown Many distinct ochreous mottles Moderate coarse angular blocky structure Firm <0.5% biopores of >0.5 mm Slowly permeable layer

Wetness class IV; 4b

STALBRIDGE LOCAL PLAN, DORSET

SOIL PIT DESCRIPTION

Pit 4 MR 176741

Topsoil	0-15 cm	Heavy Clay Loam 10YR3/3 dark brown
Subsoil 1	15-38 cm	Clay 2.5Y5/4 light olive brown Few distinct ochreous mottles
Subsoil 2	38-48cm	Clay 10YR5/6 yellowish brown Common distinct ochreous mottles Weak coarse subangular blocky structure Friable <0.5% biopores of >0.5 mm Pale ped faces
Subsoil 3	48-100cm	Sandy Clay 10YR5/6 Yellowish brown Common distinct ochreous mottles Weak coarse prismatic structure Very Friable <0.5% biopores of >0.5 mm Slowly Permeable layer

Wetness Class III; 3b