

TAUNTON SITE 1 - SOIL PIT DESCRIPTIONS

Pit No 1

No profile description - topsoil stoniness assessment

Volume of pit = 22,713 cc

Weight of stones = 6,000 g

Volume of stones = 2,222 cc

∴ % stones >2cm = 9.8%; % stones >6cm in stone sample is >50% (ie >5% by volume in topsoil)

Pit No 2

- Topsoil 0-20 cm
Medium clay loam
7.5YR3/2 dark brown
Slightly stoney (<5% assumed)
- Subsoil 1 20-45cm
Heavy clay loam
5YR4/4 reddish brown
Weak Coarse & Med subangular blocky structure; friable
Slightly stoney
- Subsoil 2 45-60 cm
Heavy clay loam.
5YR4/4 reddish brown
Weak coarse and medium subangular blocky structure; friable
Stoney (<10% assumed by comparison with pit No 3)
- Subsoil 3 60-100cm
Clay
5YR4/4 reddish brown
Fe/Mn concretions and pale ped faces (gley)
Weak Coarse & med subangular blocky structure; friable
Weak slowly permeable layer
Stone free

TAUNTON SITE 1 - SOIL PIT DESCRIPTIONS

Pit No 3

Topsoil 0-20 cm
 Medium clay loam
 7.5YR3/2 dark brown
 Slightly stoney (4%)

Subsoil 1 20-60cm
 Heavy clay loam
 5YR4/4 reddish brown
 Few distinct ochreous mottles
 7% stone content (sieve method)
 Moderate medium subangular blocky structure; friable

Subsoil 2 60-90+ cm
 Heavy clay loam
 5YR5/4 reddish brown
 Common distinct ochreous mottles and pale ped faces (gley)
 No slowly permeable layer
 Moderate medium subangular blocky structure; friable
 7% stone content (assumed)

*- gleyed 60-70
 No 5% = WC I*

Droughtiness calculation:

AP wheat

0-20	TAV 18 stones 4%	=	35 mm
20-50	TAV 21 stones 7%	=	59 mm
50-120	EAV 14 stones 7%	=	92 mm

186 mm

MD Wheat = 101

AP potatoes

0-20	TAV 18 stones 4%	=	35 mm
20-70	TAV 21 stones 7%	=	98 mm

134 mm

MP potatoes = 92