

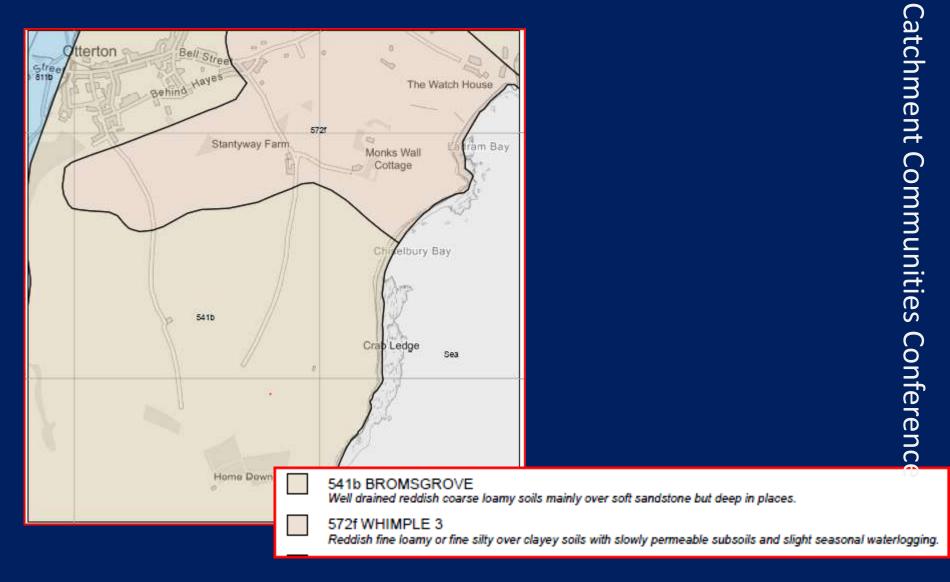
Sam Walker

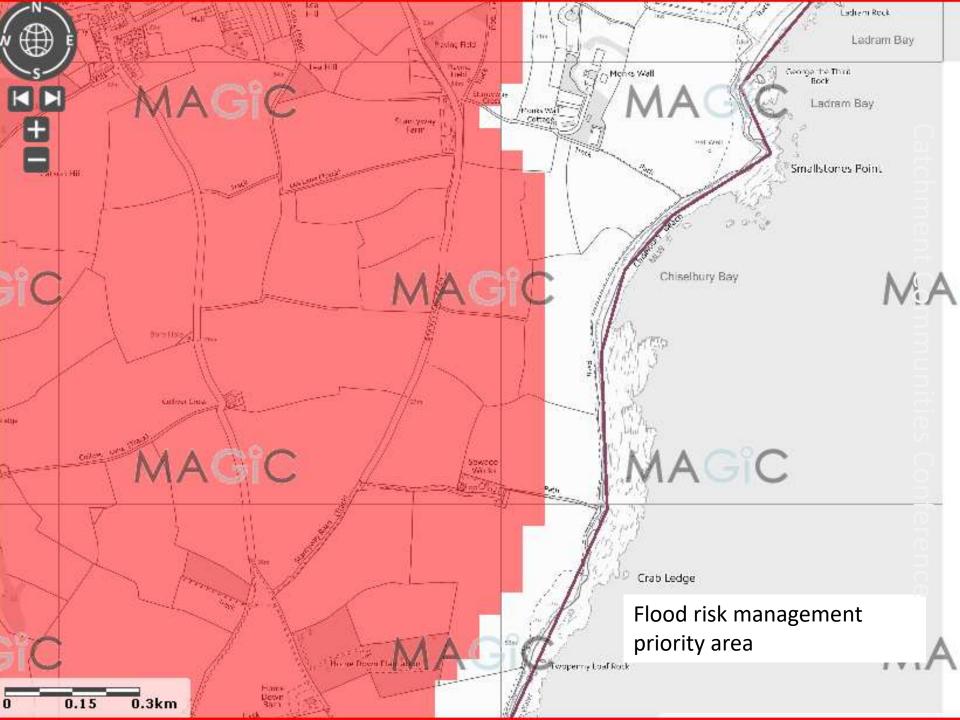
Farm facts

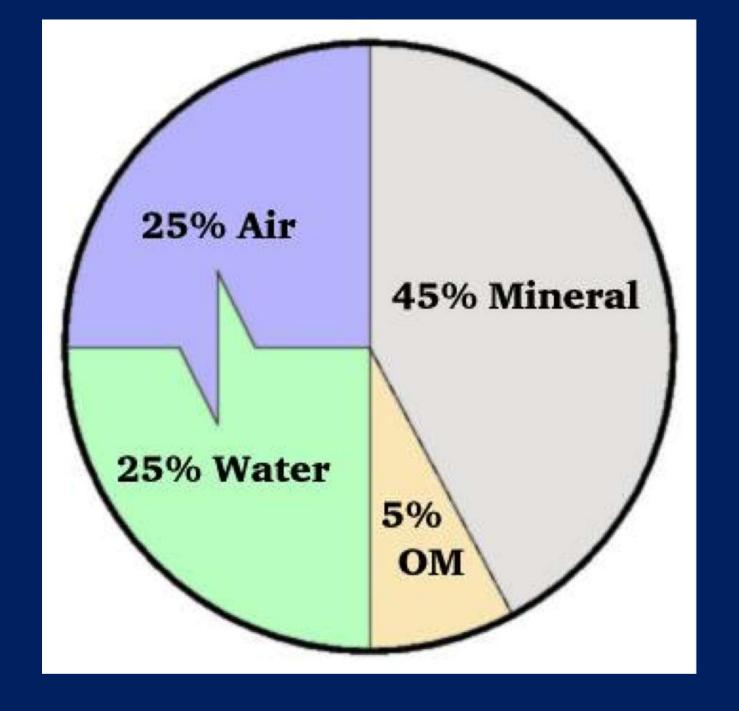
- 265 acres mainly arable
- Organic
- Easternmost breeding site of cirl buntings in UK with higher tier stewardship scheme
- Ring fenced
- Loamy stony soils over sandstone with excellent potential to grow most crops



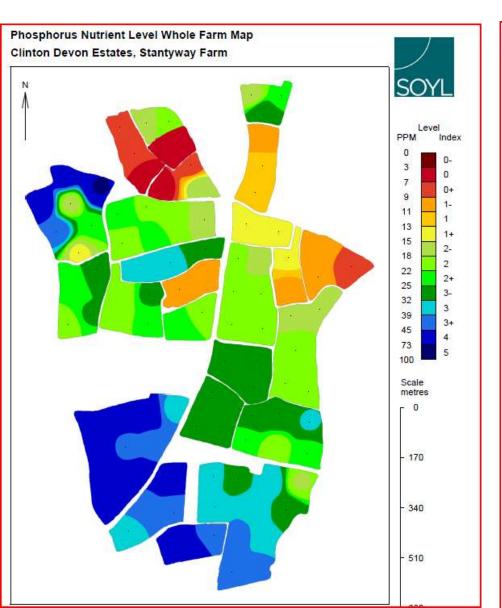
Soils of Stantyway Farm

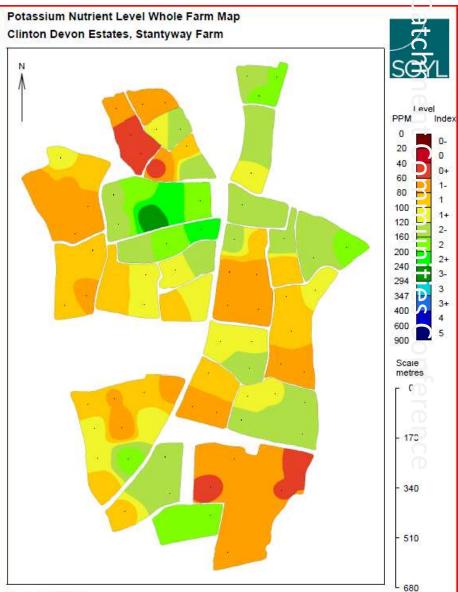




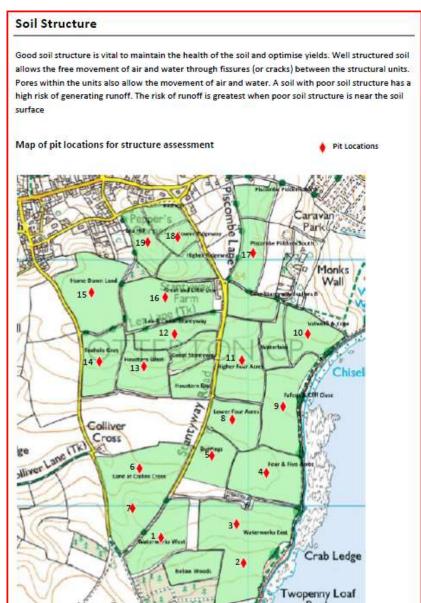


Mineral content





Air and water – soil pores





Soil Structure Score = 3 Adequate Structure

- Quite porous aggregates, most greater than 1cm
- Larger aggregates particularly in the top 5cm firmer and less porous
- · Reasonably good rooting

Topsoil: sandy loam, slightly stony

Subsoil: sandy loam Drainage: moderately good



- Soil Structure Score = 2- Good Structure
 - Quite porous aggregates, 50% greater than 1cm Aggregates easy to break
 - Reasonably good rooting
 - Homogenous down to 30cm depth

Topsoil: medium loam, stony Subsoil: very stony below 40cm

Drainage: good



Soil Structure Score = 3 Adequate Structure

- Quite porous aggregates, most greater than 1cm
- Larger aggregates firmer and less porous
- Only a few roots remain from the previous crop
- Homogenous down to 30cm depth

Topsoil: sandy loam, stony

Subsoil: moderately stony below 50cm

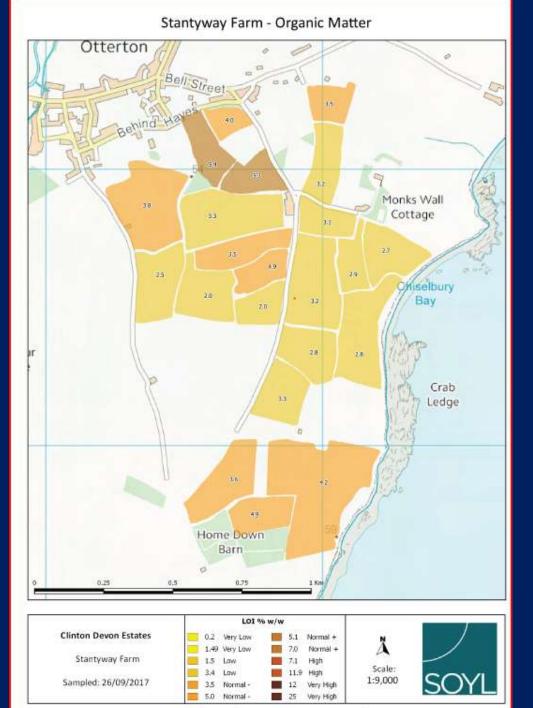
Drainage: moderately good





8 tonnes per square metre – if tyre pressures reduced in field



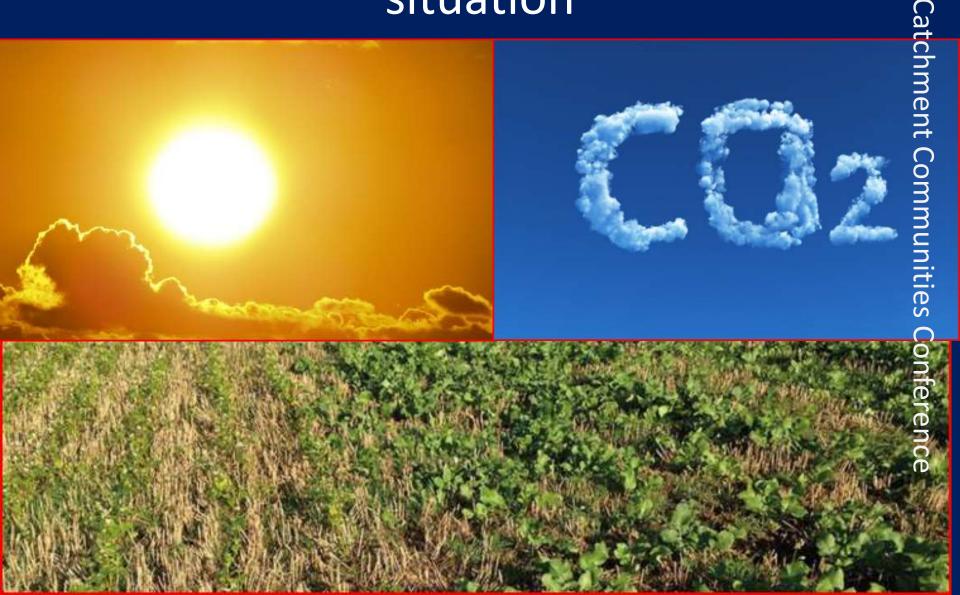


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Organic matter

- Soil at the farm is commonly known to go very hard, organic matter is relatively low
- Aiming to vary the depths at which roots are working and the nutrients they consume with a broader crop rotation
- Once the OM improves, the soil will host more fauna, particularly worms, and pore space, structure and water retention will improve massively. Fungi and bacteria will increase and further improve the cycle

Best means of building soil OM in this situation



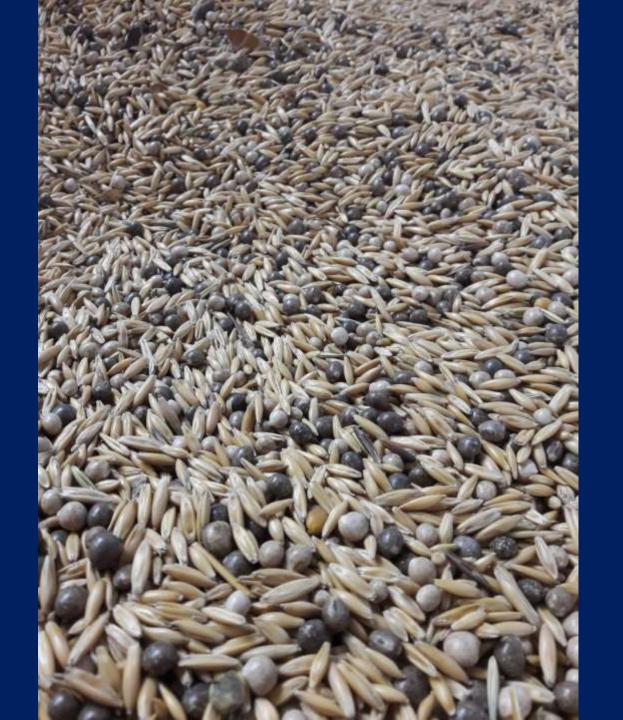








Catchment Communities Conference





Catchment Communities Conference



And once I've built up the OM...

