

### In Field Soil Assessment

# First Step: Get Digging!





### **Soil Structure**





Source: Environment Agency **thinksoils** – *Soil Assessment to avoid erosion and runoff* - 2008





Good Condition VS = 2

Good distribution of finer aggregates with no significant clodding.

Moderate Condition VS = 1

Soil contains significant proportions of both coarse firm clods and friable, fine aggregates.

Poor Condition VS = 0

Soil dominated by extremely coarse; very firm clods with very few finer aggregates.

From the **Vaderstad Soil Visual Assessments Guide** – 2016 Edition http://www.smartagriplatform.com/resources/Pictures/Visual%20Soil%20Assessment%202016%20Edition.pdf



# Soil Biology: Earthworms



# Compaction







### Clean up the profile – Take a good look







## Other Basic Assessments

- Colour
- Odour
- Water Infiltration



#### Aggregate No. 1

- Bare Soil Overwinter
- Low Organic Matter Content
- Very few roots or earthworms

#### Aggregate No. 2

- Grass Ley (2+ years)
- Moderate to High Organic Matter Content
- Frequent roots and moderate earthworm count

