

Soil Monitoring Record Sheet (use one record sheet for each field each time you monitor)

Field ID _____ Date/year _____ Soil moisture wet moist dry Soil temperature _____

Soil type(s) _____ Tillage frequency & type _____

Date manure applied _____ Date of other organic matter application _____

Fertilizer type & amount _____

Pesticide names and amounts _____

Crop rotation (Circle current or most recent crop) _____

Field Area	Location identifiers (distance from landmarks or GPS locations)	Water Infiltration rate (minutes)	Earth-worm Count #/hole	Aggregate Stability Score ^a	Penetration (Compaction) Score ^b Depth (inches)		Plant & Residue Cover (%)
Example	100 steps NW from SE corner	10 min 20sec	10	3	3	8"	85
Area I	1						
	2						
Area II	1						
	2						
Area III	1						
	2						
Average							
Baseline I ^c							
Baseline II							

^a aggregate stability score: 1 = aggregate broke apart within one minute standing in water, 2 = aggregate remained intact in standing water but broke apart after gentle swirling, 3 = aggregate remained intact after gentle swirling, 4 = aggregate remained intact after vigorous swirling.

^b compaction score: 0 = No penetration, 1 = Substantial resistance, 2 = Moderate resistance, 3 = Slight resistance, 4 = No resistance, easily penetrated to 12".

^c Baseline refers to a natural site where habitat disturbance is low such as woods, meadow, undisturbed fence row, etc. This can be a useful baseline comparison within the same soil types as field samples.

**This worksheet is based on information from USDA-Soil Quality Institute's Soil Quality Test Kit Guide, and Early Warning Biological Monitoring-Croplands by Preston Sullivan and The Allan Savory Center for Holistic Management.*

Notes:

Purdue Extension
Knowledge to Go
 1-888-EXT-INFO

<<http://www.ecn.purdue.edu/safewater/field>>