

Table S1. Taxonomic breakdown of the more relevant phyla from the twelve soils.

Field 1	2007		2008		2009	
	First sampling time					
Taxa	Untreated	Glyphosate	Untreated	Glyphosate	Untreated	Glyphosate
<i>Proteobacteria</i>	34.2	30.5	36.9	37.7	28.8	34.3
<i>Actinobacteria</i>	26.3	28.4	24.9	27.2	9.5	7.9
<i>Bacteroidetes</i>	0.0	0.4	0.0	0.0	0.2	0.0
<i>Verrucomicrobia</i>	6.4	7.1	5.6	4.1	11.9	9.5
<i>Planctomycetes</i>	0.5	1.2	1.2	0.7	1.1	2.0
<i>Chloroflexi</i>	1.2	2.2	0.9	1.5	1.6	1.7
<i>Acidobacteria</i>	26.3	25.8	25.5	24.1	39.9	38.8
<i>Nitrospira</i>	1.2	0.9	2.5	1.2	2.1	1.8
<i>Gemmatimonadetes</i>	3.6	3.3	2.1	3.3	4.4	4.0
<i>Firmicutes</i>	0.3	0.2	0.4	0.2	0.5	0.0
	Final sampling time					
Taxa	Untreated	Glyphosate	Untreated	Glyphosate	Untreated	Glyphosate
<i>Proteobacteria</i>	32.6	35.7	35.8	33.4	25.1	28.1
<i>Actinobacteria</i>	18.1	16.7	22.4	24.4	10.0	12.2
<i>Bacteroidetes</i>	0.0	0.0	0.0	0.0	0.4	0.0
<i>Verrucomicrobia</i>	10.1	12.5	9.1	9.2	13.6	6.6
<i>Planctomycetes</i>	1.0	0.7	0.8	0.9	1.5	0.0
<i>Chloroflexi</i>	1.5	1.6	1.4	1.8	0.9	2.0
<i>Acidobacteria</i>	27.5	26.7	25.4	24.8	41.7	43.5
<i>Nitrospira</i>	1.5	1.2	2.3	1.6	1.6	0.7
<i>Gemmatimonadetes</i>	6.9	3.7	2.3	4.0	5.1	6.8
<i>Firmicutes</i>	0.5	1.0	0.0	0.0	0.0	0.0
Field 2	2007		2008		2009	
	First sampling time					
Taxa	Untreated	Glyphosate	Untreated	Glyphosate	Untreated	Glyphosate
<i>Proteobacteria</i>	39.8	39.8	29.9	35.0	38.5	33.6
<i>Actinobacteria</i>	29.2	28.6	27.3	21.5	5.8	5.9
<i>Bacteroidetes</i>	0.2	0.4	0.0	0.0	0.3	0.0
<i>Verrucomicrobia</i>	5.2	5.1	6.2	4.3	12.2	12.1
<i>Planctomycetes</i>	0.6	0.7	1.3	0.7	1.5	0.3
<i>Chloroflexi</i>	2.1	1.8	1.0	1.5	1.1	2.9
<i>Acidobacteria</i>	17.8	16.8	28.1	32.2	34.0	37.5
<i>Nitrospira</i>	1.1	1.9	2.8	1.3	2.3	1.1
<i>Gemmatimonadetes</i>	3.7	4.5	2.4	3.3	4.0	6.6
<i>Firmicutes</i>	0.3	0.4	1.0	0.2	0.3	0.0
	Final sampling time					
Taxa	Untreated	Glyphosate	Untreated	Glyphosate	Untreated	Glyphosate
<i>Proteobacteria</i>	33.2	35.0	30.3	31.0	32.9	33.2
<i>Actinobacteria</i>	10.6	8.1	29.5	29.4	4.8	7.5
<i>Bacteroidetes</i>	0.5	1.5	0.3	0.2	0.5	0.2
<i>Verrucomicrobia</i>	7.7	10.4	5.6	3.8	12.0	13.0
<i>Planctomycetes</i>	1.2	2.2	0.6	0.6	1.2	5.0
<i>Chloroflexi</i>	2.5	3.1	2.7	3.3	2.7	2.6
<i>Acidobacteria</i>	38.1	31.8	24.1	26.4	36.0	32.4
<i>Nitrospira</i>	1.7	1.5	1.6	0.9	1.8	1.5
<i>Gemmatimonadetes</i>	4.4	6.3	5.1	4.2	7.7	4.6
<i>Firmicutes</i>	0.1	0.1	0.2	0.2	0.4	0.0

The percentages of *Proteobacteria*, *Actinobacteria*, *Bacteroidetes*, *Verrucomicrobia*, *Planctomycetes*, *Chloroflexi*, *Acidobacteria*, *Nitrospira*, *Gemmatimonadetes* and *Firmicutes* are indicated for field 1 and field 2 and do not include unassigned sequences.