

Table 1: Field information and functional group abundance as a percent of the microbial community

Mean₁₅Low is the lowest mean abundance of the functional group in the 15-core simulated samples. Mean₁₅High is the highest mean abundance of the functional group in the 15-core simulated samples. Mean₁₅Difference is the difference between Mean₁₅High and Mean₁₅Low. Mean₃₀ is the mean of the 30-core sample, and Mean₁₅ Difference Percent of Mean is the Mean₁₅Difference expressed as a proportion of the 30-core mean (Mean₃₀).

Location	Field	Acreage	Samples/ acre	Functional Group	Mean ₁₅ Low	Mean ₁₅ High	Mean ₁₅ Difference	Mean ₃₀	Mean ₁₅ Difference Percent of Mean
Ardmore, OK	1	30	1.00	Actinomycetes	16.9	19	2.1	18.1	11.60
				AM Fungi	4.6	5.22	0.62	4.9	12.65
				Eukaryotes	1.15	2.1	0.95	1.6	59.38
				Gram Negative	31.8	33.9	2.1	32.7	6.42
				Gram Positive	36.2	38.3	2.1	37.4	5.61
				Anaerobes	0.867	1.33	0.463	1.2	38.58
				Non-AM Fungi	3.55	4.89	1.34	4.1	32.68
	2	30	1.00	Actinomycetes	16.4	17.9	1.5	17.2	8.72
				AM Fungi	4.4	5.58	1.18	5	23.60
				Eukaryotes	1.11	2.03	0.92	1.5	61.33
				Gram Negative	32	33.5	1.5	32.8	4.57
				Gram Positive	36.6	38.4	1.8	37.7	4.77
				Anaerobes	1.3	1.83	0.53	1.5	35.33
				Non-AM Fungi	3.42	5.27	1.85	4.3	43.02
Loyal, OK	1	40	0.75	Actinomycetes	17.9	19.1	1.2	18.5	6.49
				AM Fungi	2.72	3.05	0.33	2.9	11.38
				Eukaryotes	3	4.8	1.8	4.01	44.89
				Gram Negative	30.1	31.7	1.6	31	5.16
				Gram Positive	40.2	41.9	1.7	41.1	4.14
				Anaerobes	0.342	1.046	0.704	0.64	110.00
				Non-AM Fungi	1.26	2.31	1.05	1.84	57.07
	2	90	0.33	Actinomycetes	17.2	19.4	2.2	18.54	11.87
				AM Fungi	2.45	2.86	0.41	2.7	15.19

				Eukaryotes	3.25	7.23	3.98	4.9	81.22
				Gram Negative	26.7	29.5	2.8	28.2	9.93
				Gram Positive	42.3	44.3	2	43.4	4.61
				Anaerobes	0.275	0.952	0.677	0.5	135.40
				Non-AM Fungi	0.923	2.515	1.592	1.75	90.97
	3	100	0.30	Actinomycetes	20.6	23.7	3.1	21.9	14.16
				AM Fungi	2.91	3.48	0.57	3.21	17.76
				Eukaryotes	0.627	2.513	1.886	1.56	120.90
				Gram Negative	28.8	30.8	2	29.73	6.73
				Gram Positive	40.1	42	1.9	41.2	4.61
				Anaerobes	0.0867	0.5287	0.442	0.3	147.33
				Non-AM Fungi	1.51	2.76	1.25	2.09	59.81
Parsons, KS	1	80	0.38	Actinomycetes	19	21	2	20	10.00
				AM Fungi	3.83	4.19	0.36	4	9.00
				Eukaryotes	0.955	1.407	0.452	1.2	37.67
				Gram Negative	36.2	37.8	1.6	37.1	4.31
				Gram Positive	27.4	36.9	9.5	33.8	28.11
				Anaerobes	1.56	1.77	0.21	1.7	12.35
				Non-AM Fungi	1.63	2.78	1.15	2.2	52.27