

Testing for Humus Presence

figure 2.

		Site 2	Site 3
<i>Quadrant #</i>	<i>Sample #</i>		
Quadrant 1	Sample 1	2.5	3
	Sample 2	4	3
	Sample 3	3	1
	Sample 4	4	1
	Sample 5	4	3
	Sample 6	3	0.5
	Sample 7	3	1
	Sample 8	4	0.5
Quadrant 2	Sample 1	4	1
	Sample 2	3	2
	Sample 3	2	3
	Sample 4	5	2
	Sample 5	1	1
	Sample 6	1	1
	Sample 7	1	2
	Sample 8	2	2
Quadrant 3	Sample 1	3	3
	Sample 2	1	3.5
	Sample 3	1	3.5
	Sample 4	1	2
	Sample 5	1	1
	Sample 6	1	3
	Sample 7	1	1
	Sample 8	2	1
Quadrant 4	Sample 1	0	3
	Sample 2	0	5

Sample 3	0	4
Sample 4	0	1
Sample 5	1	5
Sample 6	1	4
Sample 7	1.5	1
Sample 8	0.5	2

Humus Statistics

figure 3.

	Site 2	Site 3
Mean	1.922	2.188
s (standard deviation)	1.409	1.273
s ² (variance)	1.985	1.621
standard error	1.431-2.431; 1.018	1.729-2.648; 0.919
Range	5	4.5
n (sample number)	32	32

2 Sample T-Tests (for sites 2 and 3): Humus

figure 4.

Γ_{sample}	0.779
$\Gamma_{alpha} (0.2)$	1.296

Protozoa Count

figure 5.

Quadrant #	Sample #	Site 2			Site 3				
		#found in each field view (5)	Total # Prot.	# / g Soil	#/μL	#found in each field view (5)	Total # Prot.	#/μL	#/ g Soil
Quadrant 1	Sample 1	0, 3, 1, 2, 2	8	5531.4	3.951	15, 7, 4, 17, 8	51	25.19	35266
	Sample 2	2, 7, 4, 3, 2	18	12444.6	8.889	5, 2, 9, 8, 6	30	14.81	20734

	Sample 3	3, 4, 2, 2, 1	12	8296.4	5.926	1, 10, 4, 5, 27	47	23.21	32494
	Sample 4	1, 0, 0, 3, 2	6	4148.2	2.963	44, 33, 11, 13, 7	108	53.33	74662
	Sample 5	2, 3, 1, 2, 4	12	8296.4	5.926	13, 2, 5, 2, 6	28	13.83	19362
	Sample 6	2, 0, 0, 2, 1	5	3456.6	2.469	5, 2, 0, 3, 5	15	7.407	10369.8
	Sample 7	5, 7, 6, 15, 8	41	28350	20.25	6, 7, 4, 1, 3	21	10.37	14518
	Sample 8	2, 2, 3, 4, 0	11	7604.8	5.432	6, 6, 5, 8, 2	27	13.33	18662
Quadrant 2	Sample 1	1, 0, 1, 0, 0	2	1382.78	0.9877	60, 32, 16, 11, 12	131	64.69	90566
	Sample 2	1, 1, 0, 0, 2	4	2765	1.975	8, 12, 6, 8, 5	39	19.26	26964
	Sample 3	4, 7, 1, 4, 4	20	13827.8	9.877	7, 3, 11, 3, 0	24	11.85	16590
	Sample 4	3, 1, 0, 8, 1	13	8988	6.42	3, 12, 7, 20, 0	42	20.74	29036
	Sample 5	1, 5, 3, 1, 1	11	7604.8	5.432	12, 4, 7, 6, 15	44	21.73	30422
	Sample 6	0, 1, 3, 4, 2	10	6913.2	4.938	12, 25, 13, 4, 7	61	30.12	42168
	Sample 7	2, 7, 1, 0, 1	11	7604.8	5.432	6, 3, 7, 0, 4	20	9.877	13827.8
	Sample 8	12, 8, 17, 11, 10	58	40096	28.64	12, 13, 44, 20, 11	100	49.38	69132
Quadrant 3	Sample 1	0, 1, 3, 0, 2	6	4148.2	2.963	7, 5, 12, 11, 7	42	20.74	29036
	Sample 2	2, 3, 4, 0, 1	10	6913.2	4.938	6, 8, 1, 7, 4	26	12.84	17976
	Sample 3	1, 1, 4, 1, 0	7	4839.8	3.457	8, 3, 7, 4, 8	30	14.81	20734
	Sample 4	0, 1, 2, 1, 1	5	3456.6	2.469	10, 14, 11, 15, 8	58	28.64	40096
	Sample 5	2, 0, 3, 6, 1	12	8296.4	5.926	6, 2, 2, 5, 3	18	8.889	12444.6
	Sample 6	5, 3, 7, 0, 3	18	12444.6	8.889	6, 10, 16, 17, 15	64	31.6	44240
	Sample 7	0, 1, 2, 2, 3	8	5531.4	3.951	5, 3, 9, 4, 1	22	10.86	15204
	Sample 8	4, 1, 3, 2, 5	15	10369.8	7.407	1, 5, 7, 5, 1	19	9.383	13136.2
Quadrant 4	Sample 1	8, 21, 18, 12, 11	70	48398	34.57	8, 36, 7, 4, 9	64	31.6	44240
	Sample 2	6, 2, 3, 3, 2	16	11061.4	7.901	4, 6, 30, 3, 2	45	22.22	31108
	Sample 3	3, 2, 2, 4, 3	14	9679.6	6.914	5, 4, 10, 9, 3	31	15.31	21434
	Sample 4	3, 5, 2, 7, 3	20	13827.8	9.877	0, 2, 5, 2, 1	10	4.938	6913.2
	Sample 5	1, 7, 1, 2, 6	17	11753	8.395	3, 4, 7, 5, 3	22	10.86	15204
	Sample 6	7, 9, 8, 19, 19	62	42868	30.62	0, 2, 3, 2, 0	7	3.457	4839.8
	Sample 7	1, 3, 0, 4, 2	10	6913.2	4.938	21, 11, 10, 26, 18	86	42.47	59458
	Sample 8	1, 5, 4, 15, 5	30	20734	14.81	7, 5, 2, 13, 13	40	19.75	27650

	Site 2	Site 3
Mean	12855.224	29702.731
s (standard deviation)	12160.966	19897.69
s ² (variance)	147889094.1	395,918,067.300
standard error	8465.382-17245.065; 8779.682	22520.102-36885.360; 14365.258
Range	47015.22	85726.2
n (sample number)	32	32

2 Sample T-Tests (Sites 2 and 3): Protozoa *figure 7.*

Γ <i>sample</i>	8.989
Γ <i>alpha</i> (0.0010)	4.169