Nutrient Analysis for the Ithaca Community Garden Soil- 2008

Plot #	Moisture Content (%)	Available Phosphorus (lbs/Acre)	Available Potassium (lbs/Acre)	Available Magnesium (lbs/Acre)	Available Calcuim (lbs/Acre)	Available Iron (lbs/Acre)	Available Aluminum (lbs/Acre)	Available Manganese (lbs/Acre)	Available Zinc (lbs/Acre)	Soil pH	Loss on Ignition (%)	Organic Matter (%)	Available Nitrate (lbs/Acre)
20	2.97	561	2460	1120	8380	5	11	42	4.7	7.4	10.3	7	272
23	4.47	259	400	850	11210	5	11	19	6.1	7.5	11	7.5	68
27	5.74	822	2110	1545	11790	4	9	30	7.6	7.6	14.7	10.1	84
29	10.92	2589	2840	3075	16730	8	11	50	17.4	7.4	25.5	17.6	226
32	3.3	521	390	745	10970	4	11	20	14.5	7.5	9.4	6.4	36
35	4.92	735	1435	1515	11300	5	10	23	6.4	7.4	14.4	9.8	131
38	4.81	640	1970	1220	10100	4	7	22	8.7	7.5	13.2	9	144
41	4.28	476	1500	1275	9130	5	7	19	5	7.2	14.7	10	80
44	6.23	1019	1775	1465	11850	8	10	26	8.1	7.1	14.6	10	385
49	3.92	463	1055	910	10120	4	7	24	8.7	7.4	12.5	8.5	94
53	2.99	417	1065	995	8990	4	10	30	2.5	7.4	10.8	7.3	148
57	3.86	583	2010	1245	10490	6	8	34	5	7.5	12.1	8.2	224
60	4.96	94	420	620	8750	3	6	12	7.7	7.4	12.7	8.6	15
61	4.98	118	455	615	9380	5	7	13	8.5	7.4	13.4	9.1	24
62	4.31	294	805	890	12530	5	8	21	9.6	7.3	12.1	8.3	25
100	4.06	661	1355	1150	12370	5	8	32	8.4	7.6	12.3	8.3	19
103	3.62	542	1920	950	12380	9	10	34	12.6	7.7	10.8	7.3	19
106	2.82	286	1550	660	14640	3	11	44	11.8	7.5	8.4	5.7	180
109	2.72	301	555	725	9040	2	5	25	11.7	7.4	9.3	6.3	29
112	2.86	461	1680	970	16050	4	10	39	19.9	7.6	9.6	6.5	175
115	2.88	295	740	605	12800	6	12	37	12.3	7.5	9.7	6.6	31
118	3.38	413	770	835	12250	3	8	29	12.8	7.3	10.3	7	101
121	6.44	342	620	735	13220	5	9	20	16.6	7.2	12.5	8.5	122
124	11.96	375	900	765	15010	7	10	32	14	7.4	10.7	7.2	121
127	5.64	335	530	745	13090	6	10	24	19.3	7.3	11.3	7.7	107
132	3.46	156	200	395	17230	4	11	46	23.3	7.6	8.1	5.4	92
135	3.74	200	245	555	25500	4	17	86	21	7.6	8.8	5.9	132
141	3.16	462	1490	870	20840	6	12	71	18.3	7.6	12.8	8.7	98
144	2.99	244	1180	655	19600	3	13	60	17.5	7.5	9.7	6.6	136
150	4.58	528	1180	1045	19460	3	14	54	16.7	7.6	11.8	8	65
153	3.85	539	1215	1070	22180	3	19	54	16.7	7.4	10.3	7	127
156	3.81	308	510	615	11360	2	8	24	24.1	7.4	9.7	6.5	85
163	6.82	214	495	600	9400	3	7	15	6.8	7.6	9.2	6.2	45
166	7.3	505	865	945	10360	4	6	21	10.4	7.3	10.4	7	177

Plot #	Moisture Content (%)	Available Phosphorus (lbs/Acre)	Available Potassium (lbs/Acre)	Available Magnesium (lbs/Acre)	Available Calcuim (lbs/Acre)	Available Iron (lbs/Acre)	Available Aluminum (lbs/Acre)	Available Manganese (lbs/Acre)	Available Zinc (lbs/Acre)	Soil pH	Loss on Ignition (%)	Organic Matter (%)	Available Nitrate (lbs/Acre)
172	10.86	587	745	1200	14970	4	10	27	14.8	7.4	12.9	8.8	100
181	5.14	298	510	740	19570	4	12	32	14.1	7.4	10.9	7.4	111
183	2.67	174	775	550	12660	3	8	33	11.7	7.4	7.5	5	135
184	3.85	119	405	645	7870	4	4	13	10.4	7.4	10.6	7.2	25
200	2.65	211	380	575	10970	3	6	27	14.7	7.5	9.8	6.6	53
203	2.33	474	955	935	8030	4	4	26	11.6	7.2	9.2	6.2	157
206	2.12	259	485	710	6870	3	9	22	9.6	7.3	8.5	5.7	76
211	4.17	425	485	890	10130	3	6	20	16.7	7.3	10.9	7.4	108
214	8.55	424	630	805	8260	3	4	18	8.1	7.3	9.3	6.3	123
220	12.21	499	700	850	8520	5	5	15	9	7.4	9.5	6.4	79
223	2.82	379	990	760	6520	3	4	22	7.2	7.2	8.6	5.8	195
226	2.62	338	1160	725	7810	5	5	24	8.8	7	8.9	6	317
232	3.19	259	495	670	7790	5	5	15	9.7	7.2	9.1	6.1	104
235	5.6	726	1490	1285	9420	3	4	25	9.5	7.2	13.1	8.9	220
241	3.85	314	515	720	10520	6	5	18	18.3	7.3	11.2	7.6	82
244	3.12	261	575	790	9910	4	4	31	14.2	6.9	12.6	8.6	100
250	3.69	725	1605	1080	8430	3	7	24	12.7	7.2	10.5	7.1	116
253	2.78	331	570	670	6890	3	5	19	8.2	7.3	7.3	4.9	110
256	3.2	331	550	845	8720	6	6	19	9.9	7.1	10.6	7.2	133
262	4.72	265	575	690	6730	2	5	15	9.9	7.2	8.4	5.6	172
265	3.34	396	1590	900	7760	3	7	20	9	7.3	9.6	6.5	151
267	4.09	208	675	785	13570	3	8	29	12.8	7.3	15.2	10.4	114
268	4.56	788	1045	1570	21280	3	15	39	29.2	7.5	17	11.6	83
269	3.64	660	2215	930	9580	4	9	37	30.3	7.2	12.2	8.3	187
Mean	**4.561**	**451.879**	**1013.966**	**918.879**	**11918.621**	**4.241**	**8.448**	**29.345**	**12.502**	**7.372**	**11.216**	**7.610**	**118.414**
Min	**2.120**	**94.000**	**200.000**	**395.000**	**6520.000**	**2.000**	**4.000**	**12.000**	**2.500**	**6.900**	**7.300**	**4.900**	**15.000**
Max	**12.210**	**2589.000**	**2840.000**	**3075.000**	**25500.000**	**9.000**	**19.000**	**86.000**	**30.300**	**7.700**	**25.500**	**17.600**	**385.000**

NOTES:
This sheet contains all available Pb, As, and Cd data for Ithaca Community Garden plots.
Not all plots were sampled for each round of sampling, as shown by gray areas.
*Cadmium levels likely overreported in 2008. See Summary Report.

		Pb Results			As Results			Cd Results		
Plot	Crop	Soil 6/08 Pb (ppm)	Soil 8/09 Pb (ppm)	Tissue 8/09 Pb (ppm)	Soil 6/08 As (ppm)	Soil 8/09 As (ppm)	Tissue 8/09 As (ppm)	Soil 6/08 Cd (ppm)*	Soil 8/09 Cd (ppm)	Tissue 8/09 Cd (ppm)
20	tomatoes	111.72	39.90	0.071	9.02	<det	0.005	*1.119*	<det	0.053
23	chard	43.69	21.59	0.045	7.96	<det	0.024	*1.025*	<det	0.116
27		36.28			4.62			*1.314*		
29		55.81			8.17			*1.374*		
30	chard		20.80	0.094		<det	0.029		<det	0.146
32		41.94			6.32			*0.897*		
35		32.64			6.54			*1.617*		
38		73.46			11.38			*2.944*		
39	tomatoes		21.74	0.081		5.86	0.009		<det	0.047
41		23.01			9.70			*1.145*		
44		74.13			11.94			*1.920*		
48	tomatoes		71.41	0.205		<det	0.004		<det	0.081
49		91.80			6.92			*1.823*		
53		31.55			4.24			*2.019*		
57		65.62			8.98			*1.237*		
58	chard		58.71	0.151		7.32	0.025		<det	0.053
58	carrots		43.64	0.350		<det	0.025		<det	0.086
60		119.23			15.45			*1.832*		
61		127.61			6.26			*2.449*		
62		55.04			2.35			*1.693*		
100		66.65			5.69			*0.687*		
103	chard	108.34	117.54	0.110	9.22	6.89	0.020	*0.994*	<det	0.095
106		189.00			11.27			*2.470*		
109		136.48			11.54			*1.362*		
112		184.38			12.67			*1.863*		
113	tomatoes		118.54	0.046		6.28	0.003		<det	0.143
114	chard		125.78	0.199		4.09	0.039		<det	0.121
114	tomatoes		153.49	0.206		4.99	0.003		<det	0.075
114	amaranth			0.446			0.069			0.039
115		243.88			15.41			*2.084*		
118		144.44			11.18			*0.695*		
120	carrots		68.62	0.232		<det	0.018		<det	0.066

		Pb Results			As Results			Cd Results		
120	chard		38.07	0.056		<det	0.021		<det	0.171
120	tomatoes		74.66	0.093		5.18	0.006		<det	0.101
121		155.10			9.07			*1.418*		
124		152.83			6.91			*2.009*		
127		165.64			6.69			*0.749*		
131	tomatoes		142.53	0.068		5.94	0.003		<det	0.090
132	tomatoes	210.00	176.15	0.065	8.86	6.34	0.004	*2.179*	<det	0.143
133	chard		164.72	0.386		8.40	0.021		<det	0.386
134	chard		206.31	0.387		9.69	0.044		<det	0.275
134	tomatoes		170.68	0.111		<det	0.009		<det	0.215
135		195.90			8.87			*1.688*		
141		168.10			10.28			*1.877*		
142	comfrey		159.36	0.476		8.48	0.041		<det	0.016
143	tomatoes		192.85	0.073		9.41	0.003		<det	0.084
143	tomatoes		153.89	0.079		7.33	0.005		<det	0.070
144	beet greens	203.74	165.66	0.684	10.95	7.32	0.051	*1.383*	<det	0.232
144	carrots		166.67	0.594		8.14	0.034		<det	0.160
144	turnip greens		151.23	0.672		4.88	0.133		<det	0.083
150		176.85			6.94			*0.757*		
152	chard		133.54	0.179		6.42	0.031		<det	0.106
152	tomatoes		109.09	0.163		4.60	0.008		<det	0.094
153		145.84			7.84			*1.491*		
156		121.17			8.26			*1.500*		
163		73.40			5.60			*1.157*		
166		66.93			-2.11			*-0.058*		
172		108.76			5.86			*1.375*		
181		142.22			4.17			*1.648*		
183		161.65			15.93			*2.708*		
184		93.04			16.96			*1.233*		
200		167.55			12.28			*1.170*		
204	carrots		56.53	0.509		<det	0.038		<det	0.074
203		108.30			6.50			*1.599*		
206		85.38			4.00			*1.642*		
211		103.27			5.61			*1.013*		
214	carrots	85.98	49.23	0.289	11.30	<det	0.023	*1.140*	<det	0.053
220		111.46			-0.45			*1.316*		
222			56.25			<det			<det	
223	carrots	74.76	93.06	2.182	-2.09	<det	0.020	*0.028*	<det	0.054
226		96.94			5.89			*0.809*		

		Pb Results			As Results			Cd Results		
230			79.10			<det			<det	
232		120.87			10.62			*0.807*		
235		80.09			10.37			*1.239*		
241		136.27			9.74			*1.527*		
244		103.47			11.96			*1.463*		
250		98.03			8.82			*1.465*		
253		83.48			18.34			*1.578*		
256		106.26			4.07			*1.269*		
262		191.42			9.78			*2.229*		
265		112.40			10.24			*1.220*		
267		95.99			12.11			*1.592*		
268		120.53			4.40			*1.036*		
269		91.83			10.49			*1.579*		
Kids' Plot			82.30			7.53			<det	
Kids' Plot			106.09			12.86			<det	
Kids' Plot			74.66			6.36			<det	
Compost			73.86			<det			<det	
MEAN		113.31	103.84	0.30	8.48	7.01	0.02	*1.44*	<det	0.11
MIN		23.01	20.80	0.05	-2.11	4.09	0.00	*-0.06*	<det	0.02
MAX		243.88	206.31	2.18	18.34	12.86	0.13	*2.94*	<det	0.39