

SOIL TESTS

ACBLYS STRIPS

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.445242	-89.544785	6	0	1.9	7.00	21.00	116.00	4651 - 1	11/1/2007
42.4433	-89.543022	6	0	1.9	6.90	16.00	90.00	4651 - 2	11/1/2007
42.443573	-89.541567	6	0	1.7	6.60	15.50	104.00	4651 - 3	11/1/2007
42.444148	-89.543563	6	0	2.1	7.10	9.50	74.00	4651 - 4	11/1/2007
42.444917	-89.542678	6	0	2.0	7.10	10.50	82.00	4651 - 5	11/1/2007
42.445402	-89.541255	6	0	2.1	7.20	25.00	126.00	4651 - 6	11/1/2007
42.446012	-89.54311	6	0	2.5	6.80	28.00	116.00	4651 - 7	11/1/2007
Min		6	0	1.7	6.60	9.50	74.00	N/A	N/A
Max		6	0	2.5	7.20	28.00	126.00	N/A	N/A
Avg		6	0	2.0	6.96	17.93	101.14	N/A	N/A

AEBLEY II

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.446443	-89.542693	6	0	2.0	5.90	73.00	148.00	4491 - 1	11/27/2007
42.445832	-89.541935	6	0	2.0	5.50	28.00	100.00	4491 - 2	11/27/2007
42.446118	-89.541078	6	0	2.4	7.00	77.00	188.00	4491 - 3	11/27/2007
42.445107	-89.542298	6	0	2.2	5.50	23.50	104.00	4491 - 4	11/27/2007
42.444393	-89.541662	6	0	1.8	5.50	21.50	124.00	4491 - 5	11/27/2007
42.444568	-89.543228	6	0	1.9	6.40	45.00	110.00	4491 - 6	11/27/2007
42.445613	-89.54423	6	0	2.1	6.40	11.50	102.00	4491 - 7	11/27/2007
42.444033	-89.544113	6	0	2.0	6.20	18.50	122.00	4491 - 8	11/27/2007
42.443258	-89.541795	6	0	2.1	5.60	82.00	176.00	4491 - 9	11/27/2007
42.442087	-89.541462	6	0	2.2	5.10	50.00	186.00	4491 - 10	11/27/2007
42.442865	-89.542917	6	0	2.0	6.50	57.50	210.00	4491 - 11	11/27/2007
42.440062	-89.54353	6	0	2.3	5.60	60.00	234.00	4491 - 12	11/27/2007
42.440582	-89.54119	6	0	2.8	5.90	39.00	192.00	4491 - 13	11/27/2007
42.441132	-89.542383	6	0	2.6	5.50	69.00	252.00	4491 - 14	11/27/2007
42.441623	-89.54343	6	0	2.0	5.20	40.00	172.00	4491 - 15	11/27/2007
42.442527	-89.544007	6	0	2.7	7.10	37.00	170.00	4491 - 16	11/27/2007
42.441975	-89.544498	6	0	1.9	6.20	29.50	110.00	4491 - 17	11/27/2007
42.440268	-89.54408	6	0	2.2	6.00	69.00	178.00	4491 - 18	11/27/2007
42.440503	-89.544302	6	0	2.3	6.40	107.50	290.00	4491 - 19	11/27/2007
42.441878	-89.544755	6	0	2.0	6.60	88.00	166.00	4491 - 20	11/27/2007
42.441097	-89.544992	6	0	2.1	6.50	73.00	186.00	4491 - 21	11/27/2007
42.44095	-89.544157	6	0	1.9	5.40	20.00	134.00	4491 - 22	11/27/2007
Min		6	0	1.8	5.10	11.50	100.00	N/A	N/A
Max		6	0	2.8	7.10	107.50	290.00	N/A	N/A
Avg		6	0	2.2	6.00	50.89	166.00	N/A	N/A

FARM - AEBLEY

Soil Test Phosphorus (Unspecified)



Customer: MEIER, EUGENE
Boundary Area: 59.55 (ac)
Min: 9.50 (ppm)
Avg: 42.50 (ppm)
Max: 107.50 (ppm)
Std. Dev: 21.11 (ppm)
Sample Depth: 0 (in) - 6 (in)
Start Date: 11/1/2007 7:21:45 PM
End Date: 11/27/2007 6:12:45 PM

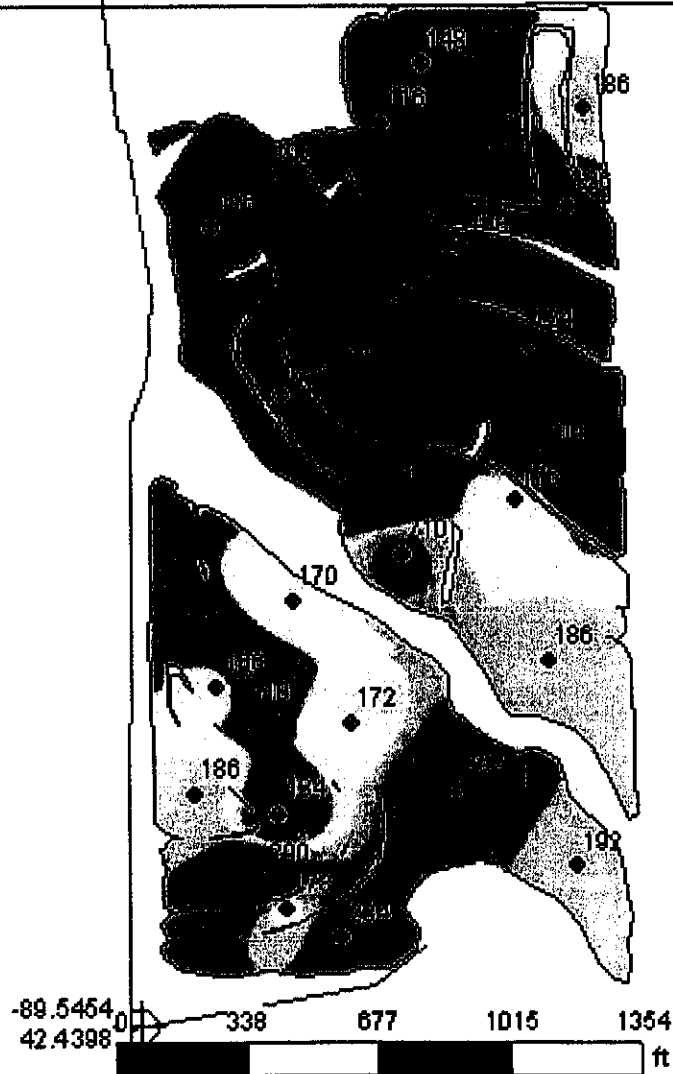
ppm	ac	
9.50 - 21.75	14.48	◆ P Unspecified
21.75 - 32.53	10.42	□ Field Boundary
32.53 - 44.78	10.76	
44.78 - 55.07	7.87	
55.07 - 63.40	5.71	
63.40 - 70.26	5.06	
70.26 - 78.10	4.76	
78.10 - 91.33	2.17	
91.33 - 107.50	0.60	



Pearl City Elevator

FARM - AEBLEY

Soil Test Potassium (Unspecified)



Customer: MEIER, EUGENE
Boundary Area: 59.55 (ac)
Min: 74.00 (ppm)
Avg: 152.05 (ppm)
Max: 290.00 (ppm)
Std. Dev: 45.37 (ppm)
Sample Depth: 0 (in) - 6 (in)
Start Date: 11/1/2007 7:21:45 PM
End Date: 11/27/2007 6:12:45 PM

ppm	ac	
74.00 - 95.60	3.51	● K Unspecified
95.60 - 111.80	11.00	□ Field Boundary
111.80 - 132.32	12.46	
132.32 - 157.16	7.88	
157.16 - 179.84	8.60	
179.84 - 205.76	10.37	
205.76 - 233.84	4.81	
233.84 - 263.00	2.76	
263.00 - 290.00	0.43	



Pearl City Elevator

CAPS 1

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.436192	-89.537762	6	0	3.1	6.30	55.50	212.00	4650 - 1	11/1/2007
42.435427	-89.537678	6	0	2.7	5.60	42.50	128.00	4650 - 2	11/1/2007
42.434633	-89.537893	6	0	3.2	6.60	77.00	194.00	4650 - 3	11/1/2007
42.433743	-89.537632	6	0	3.0	6.60	36.00	126.00	4650 - 4	11/1/2007
42.432917	-89.537768	6	0	2.8	7.00	50.00	140.00	4650 - 5	11/1/2007
42.433062	-89.538808	6	0	2.8	5.60	50.00	192.00	4650 - 6	11/1/2007
42.43384	-89.538807	6	0	3.0	6.20	63.00	256.00	4650 - 7	11/1/2007
42.43469	-89.538512	6	0	3.0	6.00	60.00	210.00	4650 - 8	11/1/2007
42.435855	-89.538528	6	0	3.0	6.10	73.00	248.00	4650 - 9	11/1/2007
Min		6	0	2.7	5.60	36.00	126.00	N/A	N/A
Max		6	0	3.2	7.00	77.00	256.00	N/A	N/A
Avg		6	0	3.0	6.22	56.33	189.56	N/A	N/A

CAPS 2

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.43635	-89.536097	6	0	1.6	6.40	32.00	124.00	4629 - 1	11/15/2007
42.435533	-89.536525	6	0	2.3	6.70	29.50	108.00	4629 - 2	11/15/2007
42.434822	-89.535957	6	0	2.1	6.70	28.50	144.00	4629 - 3	11/15/2007
42.433068	-89.536055	6	0	1.9	6.20	18.50	122.00	4629 - 4	11/15/2007
42.433985	-89.53664	6	0	1.8	6.70	35.00	148.00	4629 - 5	11/15/2007
Min		6	0	1.6	6.20	18.50	108.00	N/A	N/A
Max		6	0	2.3	6.70	35.00	148.00	N/A	N/A
Avg		6	0	1.9	6.54	28.70	129.20	N/A	N/A

CAPS 3

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.432785	-89.540035	6	0	2.4	6.60	24.50	108.00	4647 - 1	11/1/2007
42.433962	-89.540298	6	0	2.2	6.20	24.50	114.00	4647 - 2	11/1/2007
42.434903	-89.53976	6	0	2.5	6.20	22.50	130.00	4647 - 3	11/1/2007
42.43571	-89.540093	6	0	2.2	6.10	22.50	98.00	4647 - 4	11/1/2007
42.436687	-89.539598	6	0	2.4	6.30	19.00	86.00	4647 - 5	11/1/2007
42.437512	-89.53916	6	0	2.6	6.60	51.50	150.00	4647 - 6	11/1/2007
42.437905	-89.540278	6	0	2.5	6.00	33.00	98.00	4647 - 7	11/1/2007
Min		6	0	2.2	6.00	19.00	86.00	N/A	N/A
Max		6	0	2.6	6.60	51.50	150.00	N/A	N/A
Avg		6	0	2.4	6.29	28.21	112.00	N/A	N/A

FRANK'S

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.43921	-89.536387	6	0	1.9	6.30	46.50	162.00	4490 - 1	11/27/2007
42.43843	-89.536372	6	0	2.0	6.00	82.00	162.00	4490 - 2	11/27/2007
42.437585	-89.536327	6	0	2.4	6.20	82.00	176.00	4490 - 3	11/27/2007
42.437567	-89.537757	6	0	2.9	5.70	36.00	160.00	4490 - 4	11/27/2007
42.43843	-89.537632	6	0	2.6	5.50	29.50	134.00	4490 - 5	11/27/2007
42.439388	-89.537672	6	0	2.4	6.10	32.00	152.00	4490 - 6	11/27/2007
42.438823	-89.53843	6	0	2.4	6.60	23.50	100.00	4490 - 7	11/27/2007
Min		6	0	1.9	5.50	23.50	100.00	N/A	N/A
Max		6	0	2.9	6.60	82.00	176.00	N/A	N/A
Avg		6	0	2.4	6.06	47.36	149.43	N/A	N/A

HOME 1

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.438083	-89.541028	6	0	2.0	6.80	32.00	124.00	4649 - 1	11/1/2007
42.437278	-89.540987	6	0	1.5	7.10	45.00	158.00	4649 - 2	11/1/2007
42.436442	-89.541	6	0	1.5	6.70	28.50	174.00	4649 - 3	11/1/2007
42.435513	-89.540985	6	0	1.7	6.30	46.50	136.00	4649 - 4	11/1/2007
42.43467	-89.540983	6	0	1.5	6.60	41.00	156.00	4649 - 5	11/1/2007
42.433737	-89.54099	6	0	1.6	6.70	41.00	148.00	4649 - 6	11/1/2007
42.432807	-89.540985	6	0	1.8	6.40	35.00	156.00	4649 - 7	11/1/2007
42.431878	-89.540985	6	0	1.9	6.20	35.00	182.00	4649 - 8	11/1/2007
42.430995	-89.541032	6	0	2.0	5.80	45.00	126.00	4649 - 9	11/1/2007
42.429618	-89.5414	6	0	2.4	6.60	43.50	202.00	4649 - 10	11/1/2007
42.42771	-89.541652	6	0	3.0	7.20	107.50	236.00	4649 - 11	11/1/2007
42.428397	-89.54211	6	0	2.3	7.20	125.00	500.00	4649 - 12	11/1/2007
42.429287	-89.542082	6	0	1.8	6.70	125.00	378.00	4649 - 13	11/1/2007
42.43016	-89.542103	6	0	1.8	6.50	66.00	282.00	4649 - 14	11/1/2007
42.431077	-89.542122	6	0	1.8	6.80	50.00	184.00	4649 - 15	11/1/2007
42.432075	-89.542053	6	0	2.1	5.80	19.50	132.00	4649 - 16	11/1/2007
42.4329	-89.542053	6	0	1.7	6.60	25.00	118.00	4649 - 17	11/1/2007
42.434822	-89.542205	6	0	1.8	6.60	19.50	130.00	4649 - 19	11/1/2007
42.435635	-89.54225	6	0	1.9	6.80	12.50	94.00	4649 - 20	11/1/2007
42.436462	-89.542218	6	0	2.3	6.50	40.00	206.00	4649 - 21	11/1/2007
42.437565	-89.542185	6	0	2.2	6.50	19.50	148.00	4649 - 22	11/1/2007
42.43837	-89.542352	6	0	2.0	6.40	20.00	114.00	4649 - 23	11/1/2007
42.439195	-89.542228	6	0	2.1	6.90	20.50	130.00	4649 - 24	11/1/2007
42.439068	-89.543292	6	0	1.9	6.30	28.50	142.00	4649 - 25	11/1/2007
42.438187	-89.543432	6	0	2.0	6.40	30.00	162.00	4649 - 26	11/1/2007
42.437317	-89.543445	6	0	2.0	6.60	37.00	222.00	4649 - 27	11/1/2007
42.436402	-89.543412	6	0	2.2	5.90	66.00	374.00	4649 - 28	11/1/2007
42.435568	-89.543415	6	0	1.9	6.60	41.00	266.00	4649 - 29	11/1/2007

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.434402	-89.54352	6	0	1.9	6.90	53.50	260.00	4649 - 30	11/1/2007
42.433633	-89.543388	6	0	1.8	6.40	38.00	196.00	4649 - 31	11/1/2007
42.432708	-89.543358	6	0	1.9	6.60	50.00	278.00	4649 - 32	11/1/2007
42.431782	-89.543362	6	0	2.4	6.70	18.50	146.00	4649 - 33	11/1/2007
42.430892	-89.54342	6	0	2.3	6.60	29.50	210.00	4649 - 34	11/1/2007
42.429967	-89.543498	6	0	2.5	6.80	55.50	270.00	4649 - 35	11/1/2007
42.431465	-89.5444	6	0	2.5	5.90	29.50	182.00	4649 - 36	11/1/2007
42.43238	-89.544535	6	0	2.7	5.70	34.00	158.00	4649 - 37	11/1/2007
42.433043	-89.544807	6	0	2.4	6.20	63.00	264.00	4649 - 38	11/1/2007
42.433925	-89.544715	6	0	2.4	5.90	55.50	224.00	4649 - 39	11/1/2007
42.434785	-89.54488	6	0	2.3	6.20	48.00	240.00	4649 - 40	11/1/2007
42.43559	-89.544727	6	0	2.1	6.40	66.00	254.00	4649 - 41	11/1/2007
42.43648	-89.544645	6	0	2.3	6.50	63.00	244.00	4649 - 42	11/1/2007
42.437497	-89.544647	6	0	2.1	6.70	48.00	238.00	4649 - 43	11/1/2007
42.438458	-89.544733	6	0	2.2	6.70	23.00	170.00	4649 - 44	11/1/2007
42.439142	-89.544807	6	0	2.5	7.30	43.50	144.00	4649 - 45	11/1/2007
42.436447	-89.546112	6	0	2.2	6.90	33.00	150.00	4649 - 46	11/1/2007
42.435568	-89.545627	6	0	2.3	6.80	45.00	156.00	4649 - 47	11/1/2007
Min		6	0	1.5	5.70	12.50	94.00	N/A	N/A
Max		6	0	3.0	7.30	125.00	500.00	N/A	N/A
Avg		6	0	2.1	6.54	44.38	199.22	N/A	N/A

HOME 2

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.425573	-89.549447	6	0	2.0	6.20	82.00	352.00	4630 - 1	11/15/2007
42.426565	-89.549457	6	0	2.5	6.00	77.00	334.00	4630 - 2	11/15/2007
42.427538	-89.549473	6	0	2.1	5.90	21.00	206.00	4630 - 3	11/15/2007
42.428417	-89.549497	6	0	1.9	6.50	88.00	418.00	4630 - 4	11/15/2007
42.429405	-89.549508	6	0	1.8	6.90	82.00	328.00	4630 - 5	11/15/2007
42.430115	-89.549512	6	0	2.2	6.90	45.00	228.00	4630 - 6	11/15/2007
42.431163	-89.549517	6	0	2.2	6.70	48.00	226.00	4630 - 7	11/15/2007
42.43199	-89.549527	6	0	1.9	6.90	27.00	184.00	4630 - 8	11/15/2007
42.432872	-89.54954	6	0	1.7	6.80	9.00	158.00	4630 - 9	11/15/2007
42.432063	-89.548338	6	0	2.2	6.80	19.00	128.00	4630 - 10	11/15/2007
42.431137	-89.548262	6	0	1.8	6.60	25.00	156.00	4630 - 11	11/15/2007
42.430207	-89.548262	6	0	1.9	6.30	24.50	186.00	4630 - 12	11/15/2007
42.429277	-89.548257	6	0	2.0	6.20	14.00	156.00	4630 - 13	11/15/2007
42.428395	-89.548252	6	0	2.1	5.70	46.50	232.00	4630 - 14	11/15/2007
42.427475	-89.54824	6	0	2.3	5.50	41.00	218.00	4630 - 15	11/15/2007
42.42653	-89.54823	6	0	2.2	5.80	66.00	350.00	4630 - 16	11/15/2007
42.425655	-89.548215	6	0	2.4	5.70	96.00	344.00	4630 - 17	11/15/2007
42.425715	-89.547048	6	0	2.6	6.30	125.00	374.00	4630 - 18	11/15/2007
42.42664	-89.547067	6	0	2.0	6.30	96.00	392.00	4630 - 19	11/15/2007
42.427485	-89.547065	6	0	2.6	6.50	96.00	342.00	4630 - 20	11/15/2007
42.428473	-89.547075	6	0	1.8	6.30	96.00	366.00	4630 - 21	11/15/2007
42.429337	-89.547085	6	0	2.1	5.90	77.00	264.00	4630 - 22	11/15/2007
42.430247	-89.547055	6	0	2.9	5.10	16.50	118.00	4630 - 23	11/15/2007
42.430958	-89.547173	6	0	3.0	5.40	8.50	102.00	4630 - 24	11/15/2007
42.428543	-89.545875	6	0	2.1	6.20	77.00	288.00	4630 - 25	11/15/2007
42.427488	-89.54586	6	0	1.8	6.90	96.00	412.00	4630 - 26	11/15/2007
42.426577	-89.545868	6	0	2.0	6.80	125.00	350.00	4630 - 27	11/15/2007
42.425638	-89.545842	6	0	2.0	6.80	107.50	380.00	4630 - 28	11/15/2007

Latitude	Longitude	Sample Depth (m)	Sample Depth Start (m)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.427505	-89.5447	6	0	2.6	6.60	125.00	368.00	4630 - 29	11/15/2007
42.426988	-89.542113	6	0	2.8	5.50	125.00	416.00	4630 - 30	11/15/2007
42.42775	-89.543375	6	0	1.6	7.20	63.00	286.00	4630 - 31	11/15/2007
42.428585	-89.544178	6	0	1.8	7.10	107.50	406.00	4630 - 32	11/15/2007
42.42921	-89.54463	6	0	1.5	6.90	88.00	368.00	4630 - 33	11/15/2007
42.430168	-89.545635	6	0	1.9	6.40	35.00	330.00	4630 - 34	11/15/2007
42.431052	-89.546078	6	0	1.8	5.90	32.00	272.00	4630 - 35	11/15/2007
42.432197	-89.54677	6	0	1.9	6.90	19.00	182.00	4630 - 36	11/15/2007
42.43307	-89.546965	6	0	2.1	6.90	39.00	140.00	4630 - 37	11/15/2007
42.434447	-89.547057	6	0	1.6	7.00	23.00	136.00	4630 - 38	11/15/2007
42.43551	-89.547582	6	0	2.3	6.40	35.00	166.00	4630 - 39	11/15/2007
42.436492	-89.548377	6	0	2.1	6.40	53.50	214.00	4630 - 40	11/15/2007
42.436193	-89.547272	6	0	2.5	7.30	96.00	280.00	4630 - 41	11/15/2007
42.435165	-89.546485	6	0	2.1	7.00	38.00	160.00	4630 - 42	11/15/2007
42.434185	-89.545997	6	0	2.5	6.90	42.50	158.00	4630 - 43	11/15/2007
42.433292	-89.545938	6	0	2.5	6.30	60.00	186.00	4630 - 44	11/15/2007
42.432447	-89.545727	6	0	2.6	6.40	63.00	146.00	4630 - 45	11/15/2007
42.431592	-89.545617	6	0	2.3	5.80	31.00	278.00	4630 - 46	11/15/2007
42.430587	-89.544965	6	0	2.1	6.70	88.00	344.00	4630 - 47	11/15/2007
42.429697	-89.544092	6	0	2.0	6.70	77.00	332.00	4630 - 48	11/15/2007
42.42891	-89.543577	6	0	2.5	6.70	107.50	366.00	4630 - 49	11/15/2007
42.433173	-89.54808	6	0	1.6	6.40	31.00	188.00	4630 - 50	11/15/2007
42.433997	-89.549213	6	0	1.8	6.70	50.00	248.00	4630 - 51	11/15/2007
42.434893	-89.549713	6	0	1.7	6.90	40.00	226.00	4630 - 52	11/15/2007
42.436447	-89.549823	6	0	1.8	6.10	36.00	184.00	4630 - 53	11/15/2007
42.435508	-89.549267	6	0	1.9	6.00	31.00	172.00	4630 - 54	11/15/2007
42.434513	-89.54815	6	0	1.7	6.00	38.00	170.00	4630 - 55	11/15/2007
42.433857	-89.548462	6	0	1.7	6.30	96.00	204.00	4630 - 56	11/15/2007
Min		6	0	1.5	5.10	8.50	102.00	N/A	N/A
Max		6	0	3.0	7.30	125.00	418.00	N/A	N/A
Avg		6	0	2.1	6.42	60.74	259.25	N/A	N/A

HOME 4

Soil Test

MEIER, EUGENE

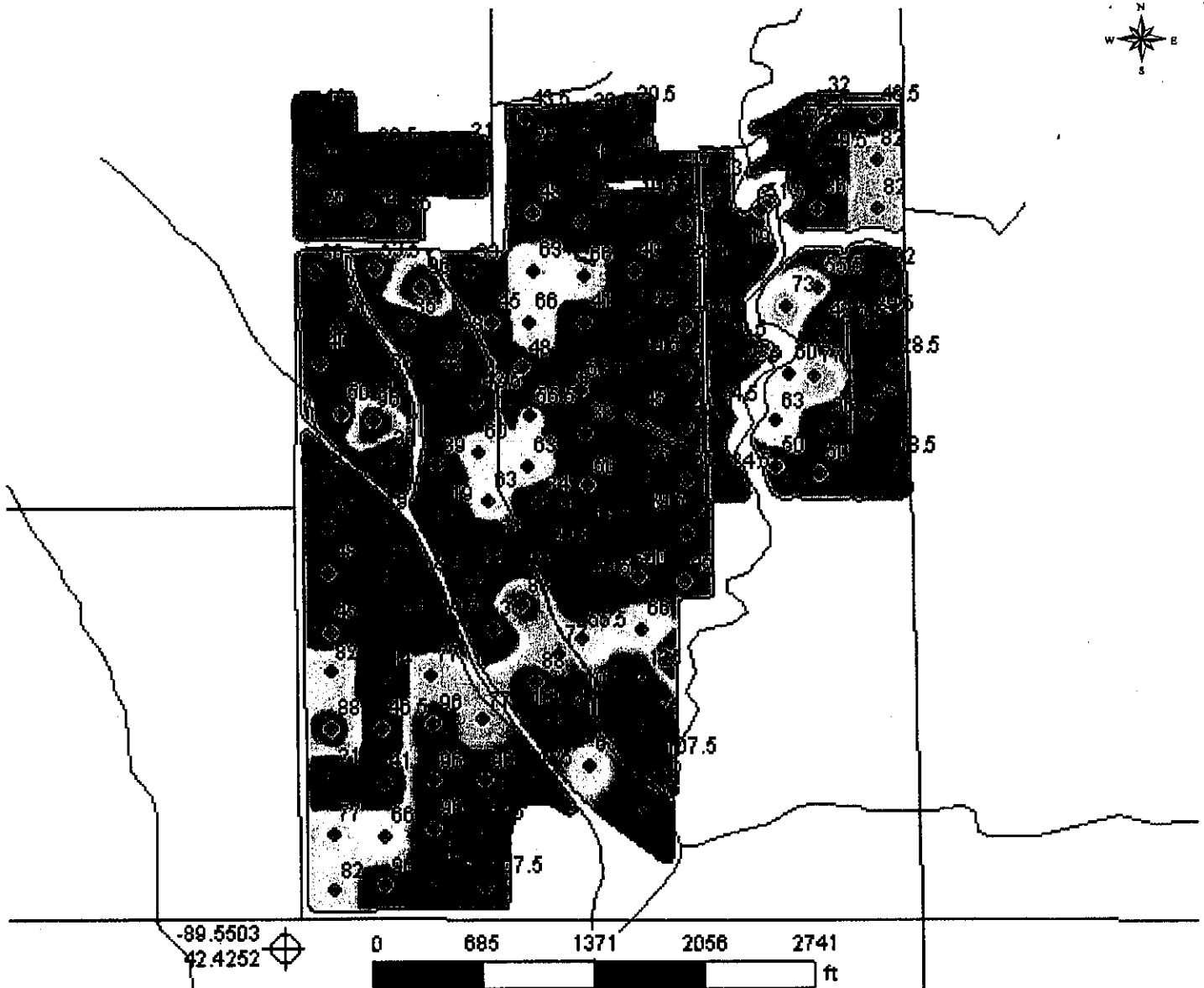


Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.4373	-89.547732	6	0	2.4	6.30	35.00	134.00	4648 - 1	11/1/2007
42.437365	-89.548553	6	0	2.4	6.20	34.00	158.00	4648 - 2	11/1/2007
42.437428	-89.549765	6	0	1.9	6.40	25.00	156.00	4648 - 3	11/1/2007
42.43826	-89.549855	6	0	2.4	6.20	33.00	102.00	4648 - 4	11/1/2007
42.438487	-89.548442	6	0	2.4	6.10	23.50	92.00	4648 - 5	11/1/2007
42.438207	-89.5472	6	0	2.0	6.50	23.00	132.00	4648 - 6	11/1/2007
42.438555	-89.546213	6	0	1.9	6.90	21.00	100.00	4648 - 7	11/1/2007
42.439178	-89.549703	6	0	2.2	5.40	19.00	132.00	4648 - 8	11/1/2007
Min		6	0	1.9	5.40	19.00	92.00	N/A	N/A
Max		6	0	2.4	6.90	35.00	158.00	N/A	N/A
Avg		6	0	2.2	6.25	26.69	125.75	N/A	N/A

FARM - HOME FIELDS

Soil Test Phosphorus (Unspecified)



Customer: MEIER, EUGENE
Boundary Area: 331.54 (ac)
Min: 8.50 (ppm)
Avg: 49.74 (ppm)
Max: 125.00 (ppm)
Std. Dev: 27.48 (ppm)
Sample Depth: 0 (in) - 6 (in)
Start Date: 11/1/2007 7:21:45 PM
End Date: 11/27/2007 6:12:45 PM

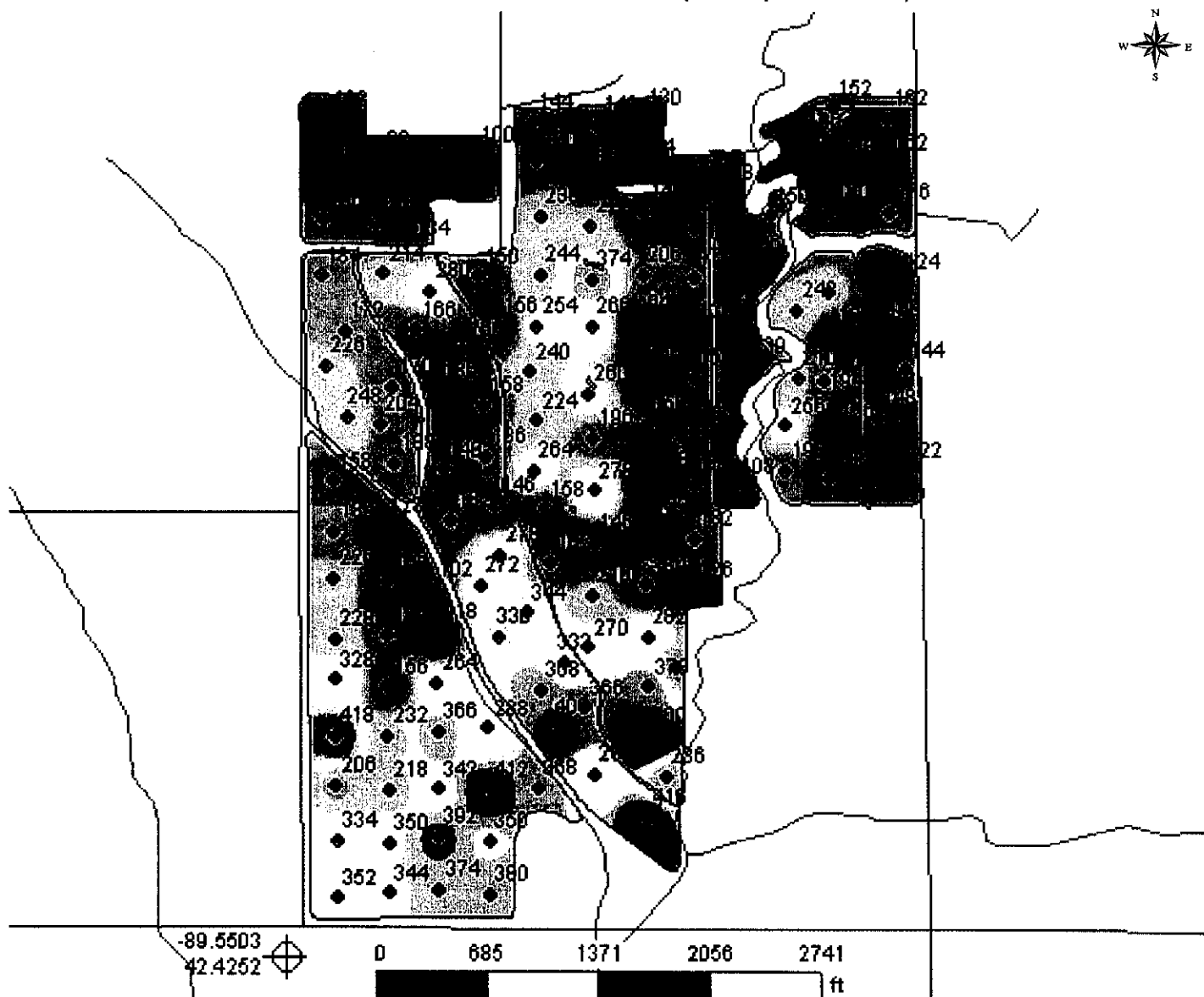
ppm	ac	
8.50 - 25.39	59.96	● P Unspecified
25.39 - 34.13	62.82	□ Field Boundary
34.13 - 43.45	61.36	
43.45 - 55.10	53.57	
55.10 - 69.66	33.08	
69.66 - 85.39	27.45	
85.39 - 99.95	18.02	
99.95 - 114.52	12.04	
114.52 - 125.00	13.96	



Pearl City Elevator

FARM - HOME FIELDS

Soil Test Potassium (Unspecified)



Customer: MEIER, EUGENE
Boundary Area: 331.54 (ac)
Min: 86.00 (ppm)
Avg: 211.27 (ppm)
Max: 500.00 (ppm)
Std. Dev: 86.35 (ppm)
Sample Depth: 0 (in) - 6 (in)
Start Date: 11/1/2007 7:21:45 PM
End Date: 11/27/2007 6:12:45 PM

ppm	ac	
86.00 - 135.68	66.49	● K Unspecified
135.68 - 168.80	81.17	□ Field Boundary
168.80 - 206.06	54.15	
206.06 - 249.53	48.11	
249.53 - 303.35	29.92	
303.35 - 350.96	27.60	
350.96 - 386.15	22.49	
386.15 - 442.04	10.38	
442.04 - 500.00	1.94	



Pearl City Elevator

MESSMAN'S EAST

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.447667	-89.512097	6	0	2.6	6.20	86.00	346.00	4453 - 1	12/11/2007
42.447772	-89.511167	6	0	2.7	6.30	107.50	382.00	4453 - 2	12/11/2007
42.447777	-89.509912	6	0	2.0	6.20	125.00	332.00	4453 - 3	12/11/2007
42.447807	-89.508712	6	0	2.6	6.70	77.00	314.00	4453 - 4	12/11/2007
42.447823	-89.507503	6	0	2.6	6.40	69.00	326.00	4453 - 5	12/11/2007
42.448708	-89.507452	6	0	2.3	5.40	50.00	282.00	4453 - 6	12/11/2007
42.448707	-89.508758	6	0	2.5	4.90	23.00	190.00	4453 - 7	12/11/2007
42.448703	-89.510013	6	0	2.3	7.30	37.00	174.00	4453 - 8	12/11/2007
42.448695	-89.511152	6	0	2.3	6.60	34.00	176.00	4453 - 9	12/11/2007
42.449642	-89.509392	6	0	2.6	5.20	35.00	174.00	4453 - 10	12/11/2007
42.449703	-89.508555	6	0	2.8	6.20	23.50	152.00	4453 - 11	12/11/2007
42.449945	-89.507537	6	0	2.4	5.00	26.50	148.00	4453 - 12	12/11/2007
42.450675	-89.510077	6	0	2.6	6.40	53.50	278.00	4453 - 13	12/11/2007
42.450615	-89.50821	6	0	2.1	5.50	25.00	168.00	4453 - 14	12/11/2007
Min		6	0	2.0	4.90	23.00	148.00	N/A	N/A
Max		6	0	2.8	7.30	125.00	382.00	N/A	N/A
Avg		6	0	2.5	6.02	53.71	245.86	N/A	N/A

MESSMAN'S WEST

Soil Test

MEIER, EUGENE

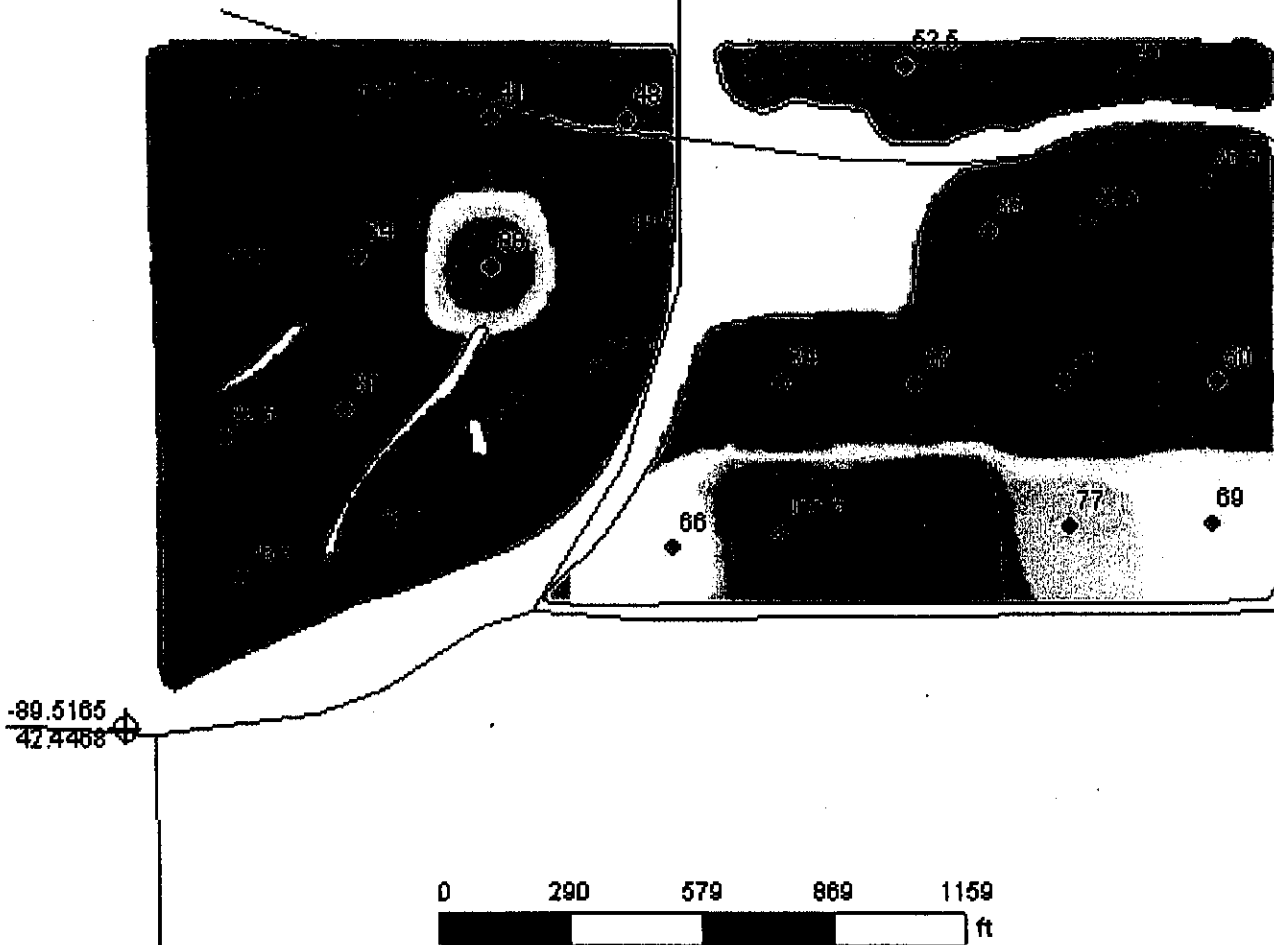


Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.448793	-89.512718	6	0	2.6	6.70	15.50	164.00	4492 - 1	11/27/2007
42.449543	-89.512497	6	0	2.8	6.00	19.50	170.00	4492 - 2	11/27/2007
42.450338	-89.512463	6	0	2.8	5.80	48.00	238.00	4492 - 3	11/27/2007
42.45035	-89.513615	6	0	2.6	6.00	41.00	196.00	4492 - 4	11/27/2007
42.449418	-89.51361	6	0	2.9	6.50	88.00	208.00	4492 - 5	11/27/2007
42.4485	-89.513577	6	0	2.6	6.40	12.00	126.00	4492 - 6	11/27/2007
42.4477	-89.514635	6	0	2.6	6.80	10.50	152.00	4492 - 7	11/27/2007
42.448538	-89.514848	6	0	2.8	6.80	31.00	152.00	4492 - 8	11/27/2007
42.449492	-89.514722	6	0	2.7	6.20	34.00	166.00	4492 - 9	11/27/2007
42.45037	-89.514812	6	0	2.0	6.30	13.50	144.00	4492 - 10	11/27/2007
42.45035	-89.51597	6	0	2.7	6.50	18.50	194.00	4492 - 11	11/27/2007
42.449347	-89.51592	6	0	2.7	6.10	15.50	148.00	4492 - 12	11/27/2007
42.448362	-89.51586	6	0	2.4	7.00	22.50	164.00	4492 - 13	11/27/2007
42.447485	-89.515738	6	0	2.8	6.80	16.50	120.00	4492 - 14	11/27/2007
Min		6	0	2.0	5.80	10.50	120.00	N/A	N/A
Max		6	0	2.9	7.00	88.00	238.00	N/A	N/A
Avg		6	0	2.6	6.42	27.57	167.29	N/A	N/A

FARM - MESSMAN'S

Soil Test Phosphorus (Unspecified)



Customer: MEIER, EUGENE
 Boundary Area: 66.27 (ac)
 Min: 10.50 (ppm)
 Avg: 41.04 (ppm)
 Max: 125.00 (ppm)
 Std. Dev: 26.68 (ppm)
 Sample Depth: 0 (in) - 6 (in)
 Start Date: 11/27/2007 6:12:45 PM
 End Date: 12/11/2007 4:27:39 PM

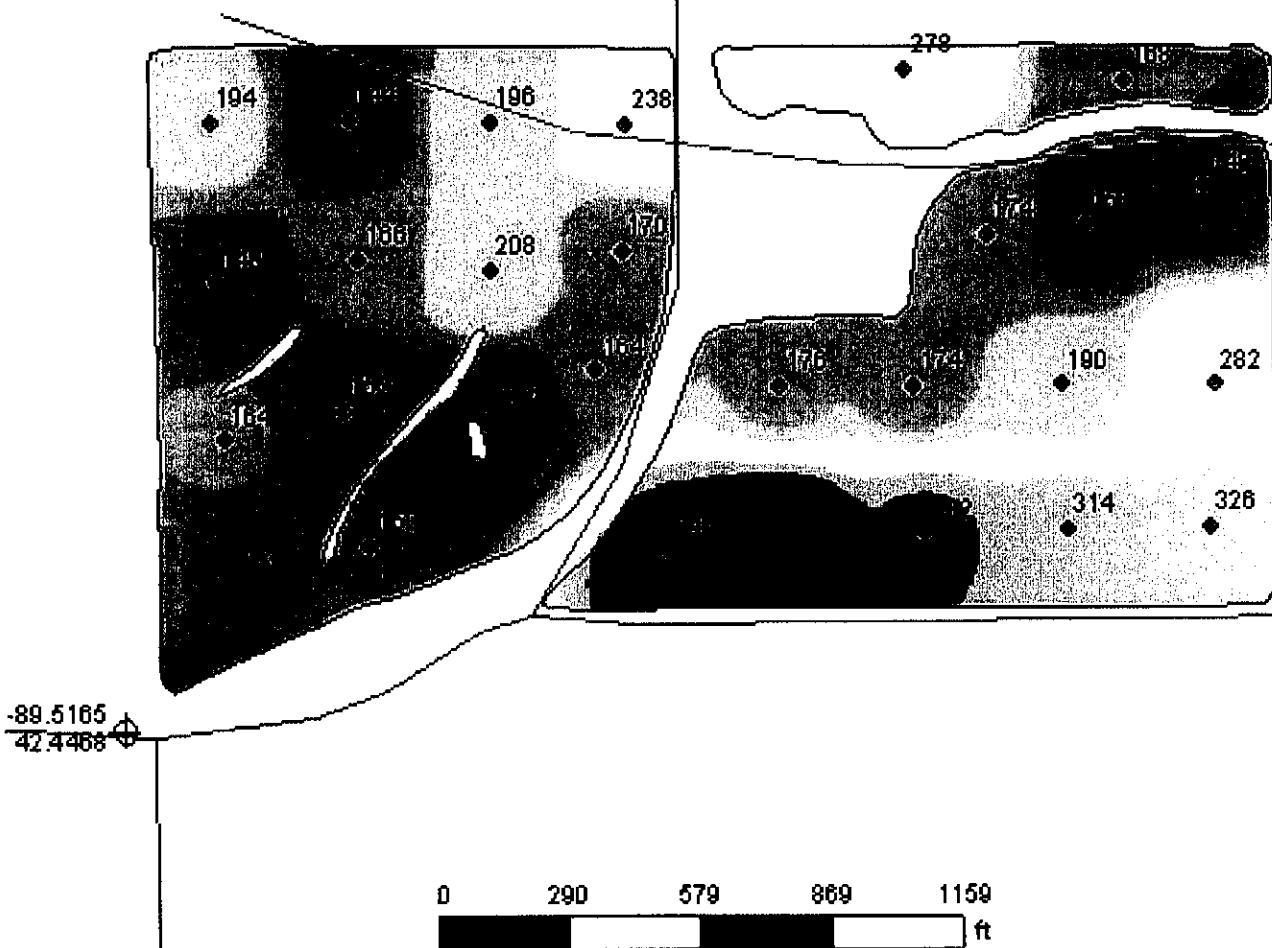
ppm	ac	
10.50 - 20.81	16.98	◆ P Unspecified
20.81 - 30.54	14.11	□ Field Boundary
30.54 - 42.56	12.87	
42.56 - 57.45	9.21	
57.45 - 71.19	5.64	
71.19 - 82.06	3.00	
82.06 - 96.38	1.71	
96.38 - 112.98	2.34	
112.98 - 125.00	1.83	



Pearl City Elevator

FARM - MESSMAN'S

Soil Test Potassium (Unspecified)



Customer: MEIER, EUGENE
 Boundary Area: 66.27 (ac)
 Min: 120.00 (ppm)
 Avg: 207.58 (ppm)
 Max: 382.00 (ppm)
 Std. Dev: 68.51 (ppm)
 Sample Depth: 0 (in) - 6 (in)
 Start Date: 11/27/2007 6:12:45 PM
 End Date: 12/11/2007 4:27:39 PM

ppm	ac	
120.00 - 138.34	4.28	◆ K Unspecified
138.34 - 160.61	15.44	□ Field Boundary
160.61 - 182.88	16.32	
182.88 - 214.32	10.52	
214.32 - 254.93	4.35	
254.93 - 295.54	5.22	
295.54 - 326.98	6.01	
326.98 - 355.80	3.73	
355.80 - 382.00	1.84	



Pearl City Elevator

STANLEY'S NORTH

Soil Test

MEIER, EUGENE



Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.413738	-89.535928	6	0	2.6	6.30	19.00	114.00	4489 - 1	11/27/2007
42.413735	-89.537105	6	0	2.4	6.90	14.00	124.00	4489 - 2	11/27/2007
42.413745	-89.538378	6	0	2.4	6.50	20.50	124.00	4489 - 3	11/27/2007
42.413707	-89.539688	6	0	2.6	7.00	12.00	98.00	4489 - 4	11/27/2007
42.412862	-89.539612	6	0	2.3	6.20	11.50	128.00	4489 - 5	11/27/2007
42.412883	-89.538338	6	0	2.6	6.30	12.00	114.00	4489 - 6	11/27/2007
42.412882	-89.53721	6	0	2.5	6.40	17.00	114.00	4489 - 7	11/27/2007
42.412882	-89.53604	6	0	2.6	6.40	16.00	88.00	4489 - 8	11/27/2007
Min		6	0	2.3	6.20	11.50	88.00	N/A	N/A
Max		6	0	2.6	7.00	20.50	128.00	N/A	N/A
Avg		6	0	2.5	6.50	15.25	113.00	N/A	N/A

STANLEY SOUTH

Soil Test

MEIER, EUGENE

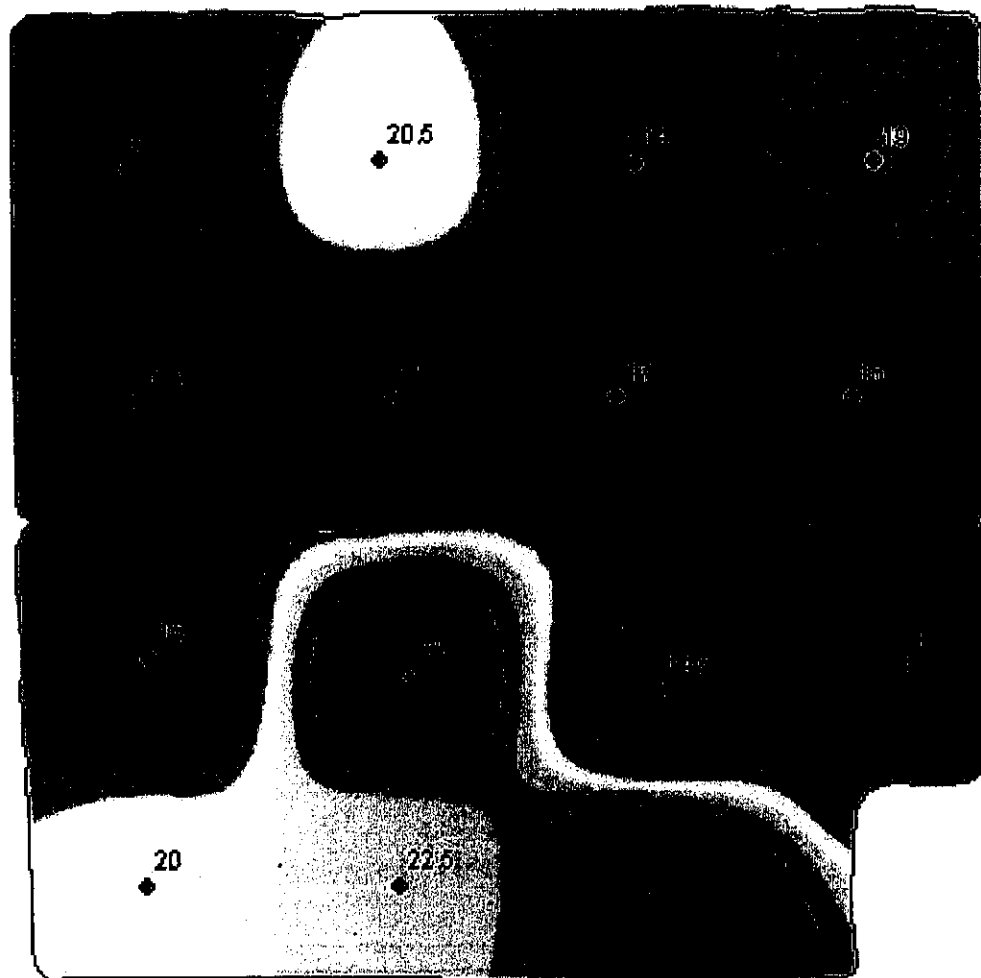


Pearl City Elevator

Latitude	Longitude	Sample Depth (in)	Sample Depth Start (in)	OM Unspecified (%)	pH Unspecified (pH)	P Unspecified (ppm)	K Unspecified (ppm)	Event ID / Sample Number	Sample Date
42.411932	-89.539518	6	0	2.6	7.40	15.00	134.00	4646 - 1	11/1/2007
42.411873	-89.538242	6	0	2.6	7.40	28.00	144.00	4646 - 2	11/1/2007
42.411808	-89.536998	6	0	2.5	7.30	14.50	126.00	4646 - 3	11/1/2007
42.411905	-89.535787	6	0	2.7	6.40	12.00	98.00	4646 - 4	11/1/2007
42.411082	-89.537053	6	0	2.5	6.70	30.00	154.00	4646 - 5	11/1/2007
42.411098	-89.538288	6	0	2.3	7.30	22.50	150.00	4646 - 6	11/1/2007
42.411098	-89.539533	6	0	2.5	6.80	20.00	140.00	4646 - 7	11/1/2007
Min		6	0	2.3	6.40	12.00	98.00	N/A	N/A
Max		6	0	2.7	7.40	30.00	154.00	N/A	N/A
Avg		6	0	2.5	7.04	20.29	135.14	N/A	N/A

FARM - STANLEY'S

Soil Test Phosphorus (Unspecified)



-89.5402
42.4107



Customer: MEIER, EUGENE
Boundary Area: 37.07 (ac)
Min: 11.50 (ppm)
Avg: 17.48 (ppm)
Max: 30.00 (ppm)
Std. Dev: 4.73 (ppm)
Sample Depth: 0 (in) - 6 (in)
Start Date: 11/1/2007 7:26:59 PM
End Date: 11/27/2007 6:12:44 PM

ppm	ac
11.50 - 13.35	7.94
13.35 - 15.48	7.25
15.48 - 17.42	7.28
17.42 - 19.27	4.05
19.27 - 21.30	3.99
21.30 - 23.71	2.38
23.71 - 26.11	1.35
26.11 - 28.43	1.83
28.43 - 30.00	1.28

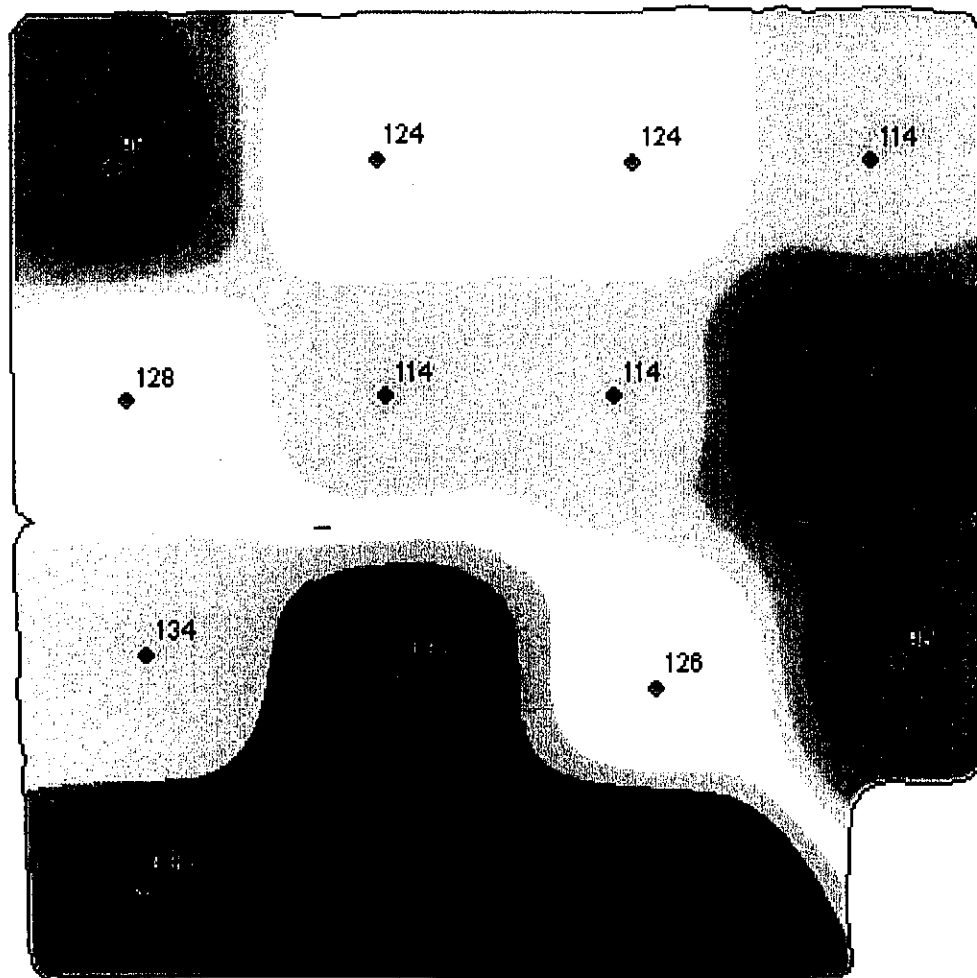
◆ P Unspecified
 □ Field Boundary



Pearl City Elevator

FARM - STANLEY'S

Soil Test Potassium (Unspecified)



-89.5402
42.4107



Customer: MEIER, EUGENE
 Boundary Area: 37.07 (ac)
 Min: 88.00 (ppm)
 Avg: 122.67 (ppm)
 Max: 154.00 (ppm)
 Std. Dev: 16.93 (ppm)
 Sample Depth: 0 (in) - 6 (in)
 Start Date: 11/1/2007 7:26:59 PM
 End Date: 11/27/2007 6:12:44 PM

ppm	ac	
88.00 - 94.27	1.94	◆ K Unspecified
94.27 - 102.52	4.29	□ Field Boundary
102.52 - 110.44	1.54	
110.44 - 118.36	7.53	
118.36 - 124.96	6.68	
124.96 - 130.90	3.56	
130.90 - 137.83	3.26	
137.83 - 146.08	4.80	
146.08 - 154.00	3.74	



Pearl City Elevator

Soil Testing and Sampling

Illinois Agronomy Handbook—

Chapter 11—Authors: Robert G. Hoelt,
Department of Crop Science and Theodore R.
Peck, Department of Natural Resources and
Environmental Sciences

Soil testing is the single most important guide to the profitable application of fertilizer and lime. When soil test results are combined with information from the soil profile about the nutrients that are available to the various crops (Figures 11.15 and 11.16), the farmer has a reliable basis for planning the fertility program on each field.

Traditionally, soil testing has been used to decide how much lime and fertilizer to apply. With increased emphasis on economics and the environment, soil tests are also a logical tool to determine areas where adequate or excessive fertilization has taken place. In addition, soil tests are used to monitor the impact of past fertility practices on changes in a field's nutrient status. To accomplish this, one must (1) collect samples to the proper depth; (2) collect enough samples per unit of land area; (3) collect samples from precisely the same areas of the field that were sampled in the past; and (4) collect samples at the proper time.

Depth of sampling. The proper sampling depth for pH, phosphorus, and potassium is 7 inches. For fields in which reduced-tillage systems have been used, proper sampling depth is especially important, as these systems result in less thorough mixing of lime and fertilizer than a tillage system that includes a moldboard plow. This stratification of nutrients has not adversely affected crop yield, but misleading soil test results may be obtained if samples are not taken to the proper depth.

Under reduced-tillage systems, it is important to monitor surface soil pH by collecting samples to a depth of 2 inches from at least three areas in a 40-acre field. These areas should represent the low, intermediate, and high ground of the field. If surface soil pH is too high or too low, the efficacy of some herbicides and other chemical reactions may be affected.

Number of samples per unit of land area.

The number of soil samples taken from a field is a compromise between what should be done (information) and what can be done (cost). Sampling at the rate of one composite from each 2½-acre area is suggested. (See Figure 11.01 for sampling directions.)

Field sampling studies show large differences of soil test levels in short distances in some fields. If you can use computerized spreading techniques and suspect large variations in test values over a short distance, collecting one sample from each 1.1-acre area (Figure 11.01, bottom diagram) will provide a better representation of the actual field variability. The increased sampling intensity will increase cost of the base information but allows for more complete use of technology in mapping soil fertility patterns and thus more appropriate fertilizer application rates. The most common mistake is taking too few samples to represent a field adequately. Taking shortcuts in sampling may produce unreliable results and lead to higher fertilizer costs, lower returns, or both.

Precise sample locations. Since test results may vary markedly in short distances, it is important to collect soil samples from precisely the same points each time the field is tested. This practice reduces the variation often observed between sampling times. Sample locations may be identified using global positioning system (GPS) equipment or by accurately measuring the sample points with a device such as a measuring wheel.

Once locations have been identified, collect and composite five soil core samples 1 inch in diameter to a 7-inch depth from within a 10-foot radius around each point.

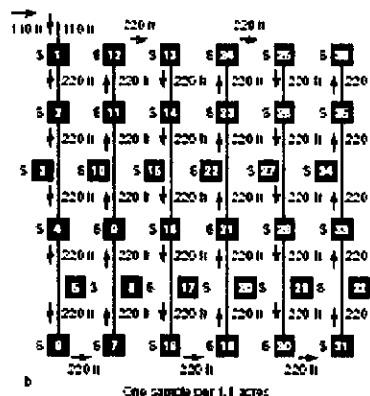
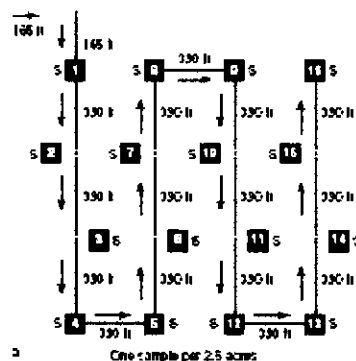
How to sample. A soil tube is the best implement for taking soil samples, but an auger or a spade also can be used (Figure 11.02). Five soil cores taken with a tube will give a satisfactory composite sample of about 1 to 2 cups.

When to sample. Sampling every 4 years is strongly suggested. To improve the consistency of results, samples should be collected at the same time of year. Sampling done within a few months of lime or fertilizer treatment will be more variable than after a year. Late summer and fall are the best seasons for collecting soil samples because potassium test results are most reliable during these times. The potassium soil test tends to be cyclic, with low test levels in late summer and early fall and high test levels in late January and early February.

Where to have soil tested. Illinois has about 40 commercial soil-testing services. An Extension office or a fertilizer dealer can provide information about soil-testing services available in your area.

Information to accompany soil samples. The best fertilizer recommendations are based on both soil test results and a knowledge of field conditions that will affect nutrient availability. Because the person making the recommendation does not know the conditions in each field, it is important that you provide adequate information with each sample.

This information includes cropping intentions for the next 4 years; name of the soil type or, if not known, the nature of the



Note: To avoid the influence of prior farming practices, it is suggested that samples be collected 30 feet to the side of the center line in the S2-S15 and S6-S12 rows in 11.01a and in the E3-E14 and E5-E12 rows in 11.01b, as shown.

Figure 11.01. How to collect soil samples from a 40-acre field. Each sample should consist of five soil cores, 1 inch in diameter, collected to a 7-inch depth from within a 10-foot radius around each point. Higher frequency sampling (lower diagram) is suggested for those who can use computerized spreading techniques on fields suspected of having large variations in test values over short distances.

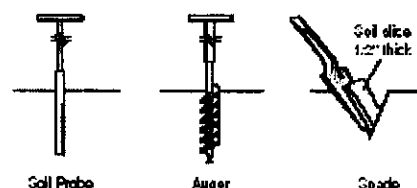


Figure 11.02. How to take soil samples with an auger, a soil probe, and a spade.

soil (clay, silty, or sandy; light or dark color; level or hilly; eroded; well drained or wet; tiled or not; deep or shallow); fertilizer used (amount and grade); lime applied in the past 2 years; and proven yields or yield goals for all proposed crops.

What tests to have made. Soil fertility problems in Illinois are largely associated with acidity, phosphorus, potassium, and nitrogen. Recommended soil tests for making decisions about lime and fertilizer use are the water pH test, which shows soil reaction as pH units; the Bray P1 test for plant-available soil phosphorus, which is commonly reported as pounds of phosphorus per acre (elemental basis); and the potassium (K) test, which is commonly reported as pounds of potassium per acre (elemental basis). Guidelines for interpreting these tests are included in this section.

An organic-matter test made by some laboratories is particularly useful in selecting proper rates of herbicide and agricultural limestone. Because nitrogen can change forms or be lost from soil, testing to determine nitrogen fertilizer needs for Illinois field crops is not recommended in the same sense as testing for the need for lime, phosphorus, or potassium fertilizer. Testing soil to predict the need for nitrogen fertilizer is complicated by the fact that nitrogen availability—both the release from soil organic matter and the loss by leaching and denitrification—is regulated by unpredictable climatic conditions.

Under excessively wet conditions, both soil and fertilizer nitrogen may be lost by denitrification or leaching. Under dry conditions, the amount of nitrogen released from organic matter is low, but under ideal moisture conditions, it is high. Use of the organic-matter test as a nitrogen soil test, however, may be misleading and result in underfertilization.

Attempts to identify new nitrogen soil tests have been ongoing for several years. Specifics of the tests, along with an evaluation of their potential and limitations for Illinois, are discussed in the nitrogen section of this chapter. Guidelines for planning nitrogen fertilizer use are also provided.

Tests are available for most secondary nutrients and micronutrients, but interpretation of these tests is less reliable than tests for lime, phosphorus, and potassium. Complete field history and soil information are especially important in interpreting results. Even though these tests are less reliable, they may be useful in two ways:

1. *Troubleshooting* (diagnosing symptoms of abnormal growth). Paired samples representing areas of good and poor growth are needed for analyses.

2. *"Hidden-hunger checkup"* (identifying deficiencies before symptoms appear). Soil tests are of little value in indicating marginal levels of secondary nutrients and micronutrients when crop growth is apparently normal. For this purpose, plant analysis may yield more information.

Soil test ratings (given in Table 11.01) have been developed to put into perspective the reliability, usefulness, and cost-effectiveness of soil tests as a basis for planning a soil fertility and liming program for Illinois field crops. Additional research will undoubtedly improve some test ratings.

Interpretation of soil tests and formulation of soil treatment program. See page 97 for suggested pH goals and pages 116 and 119 for phosphorus and potassium information. Formulate a soil treatment program by preparing field soil test maps to observe areas of similar test levels that will benefit from similar treatment. Areas with differences in soil test pH of 0.2 unit, phosphorus test of 10, and potassium test of 30 are reasonable to designate for separate treatment.

When the soil test is variable. When there is large variation among tests on a field, the reason and, more important, what to do about it may not be obvious. *First* look at the pattern of the tests over the field. *If there is a definite pattern* of high tests in one part and low in another, check to see whether there is a difference in soil type. *Second*, try to recall

whether the area was farmed as separate fields in the recent past. *Third*, check records for this field from previous tests or, if there are no records, try to remember whether portions were ever limed or fertilized differently during the past 5 to 10 years. Whether or not the explanation for large differences in tests is found, split the field and apply basic treatments of lime and fertilizer according to need.

If there is no consistent pattern of high and low tests, select the median test, which is the test that falls in the middle of a ranking of tests from the area from low to high. If no explanation for large differences in tests is found, consider taking a new set of samples.

Cation-exchange capacity. Chemical elements exist in solution as cations (positively charged ions) or anions (negatively charged ions). In the soil solution, the plant nutrients hydrogen (H), calcium (Ca), magnesium (Mg), potassium (K), ammonium (NH₄), iron (Fe), manganese (Mn), zinc (Zn), and copper (Cu) exist as cations. The same is true for nonplant nutrients such as sodium (Na); barium (Ba); and metals of environmental concern, including mercury (Hg), cadmium (Cd), chromium (Cr), and others. Cation-exchange capacity is a measure of the amount of attraction for the soil with these chemical elements.

In soil, a high cation-exchange capacity is desirable, but not necessary, for high crop yields, as it is not a direct determining factor for yield. Cation-exchange capacity in soil arises from negatively charged electrostatic charges in minerals and organic matter.

Depending on the amount of clay and humus, soil types have a characteristic amount of cation exchange. Sandy soils have up to 4 milliequivalent (meq) per 100 grams of soil; light-colored silt loam soils have 8 to 12 meq; dark-colored silt loam soils have 15 to 22 meq; and clay soils have 18 to 30 meq.

Cation-exchange capacity facilitates retention of positively charged chemical elements from leaching, yet it gives nutrients to a growing plant root by an exchange of hydrogen (H). Farming practices that reduce soil erosion and maintain soil humus favor the maintenance of cation-exchange capacity. The cation-exchange capacity of organic residues is low but increases as the residues convert to humus, which requires from 5 years to centuries.

Table 11.01. Ratings of Soil Tests

Test	Rating ^a
Water pH	100
Soil pH	30
Buffer pH	30
Exchangeable H	10
Phosphorus	85
Potassium	60
Boron (alfalfa)	60
Boron (corn and soybeans)	10
Iron (pH > 7.5)	30
Iron (pH < 7.5)	10
Organic matter	75
Calcium	40
Magnesium	40
Cation-exchange capacity	60
Sulfur	40
Zinc	45
Manganese (pH > 7.5)	40
Manganese (pH < 7.5)	10
Copper (organic soils)	20
Copper (mineral soils)	5

^aOn a scale of 0 to 100, 100 indicates a very reliable, useful and cost-effective test, and 0 indicates a test of little value.

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