

Schuyler County Idle Farmland Analysis



Conducted by
Cornell Cooperative Extension of Schuyler County

June 15, 2010

Schuyler County Idle Farmland Analysis

Purpose:

The purpose of this analysis is to approximate the amount of fallow land in Schuyler County.¹

Method:

1. 5 sample points were placed in each of the three county agriculture districts. (Map 1)

The placement of each point was determined by asking a series of questions: 1. Where in each agriculture district is there a large number of contiguous farm parcels? 2. Do the locations of these points represent each part of the County? That is, is there a point in the north, east, south and west part of the County? This was done to get as close to a representative sample as possible.

2. Parcels within 0.5 miles of the dropped points were highlighted and analyzed. (Map 2)

Once the parcels were selected, the areas around them were viewed to make sure that the selected parcels accurately reflected the area they were representing.

3. Each sample area was analyzed for fallow land using high resolution aerial imagery and a GIS measuring tool. (Map 3-7) (Appendix 1)

The aerial was taken in May 2007. It should be noted that depending on the time of the year, the lands can look different, which means that the analysis could be biased. It should also be noted that differing interpretations of what constitutes idle farmland and differing interpretations of what is being seen on the aerial imagery can lead to skewed results.

4. All fallow parcels identified in Step 4 were visited and fallow acreage numbers were adjusted as needed. (Appendix 2)

Parcels that were classified as fallow based on the analysis in Step 4 were visited to determine, if in fact, they were actually fallow. Based on the site visits, adjustments were made to the number of fallow acres calculated in Step 4.

¹ Fallow land (which is an absence of agricultural activity) may be fallow for reasons other than lack of agricultural opportunities (e.g. hunting, recreation, privacy, speculation, etc.).

Results:

Fallow land for the sample points ranged from 7%-17%.

Agriculture District #1 East: 7%	Agriculture District #2 East: 17%	Agriculture District #3: 9%
Agriculture District #1 West: 16%	Agriculture District #2 West: 7%	

Combining the samples:

Total acreage in the sample is:	5316.17
Total fallow land in the sample is:	571.89
The percentage of fallow land in the sample is:	11%

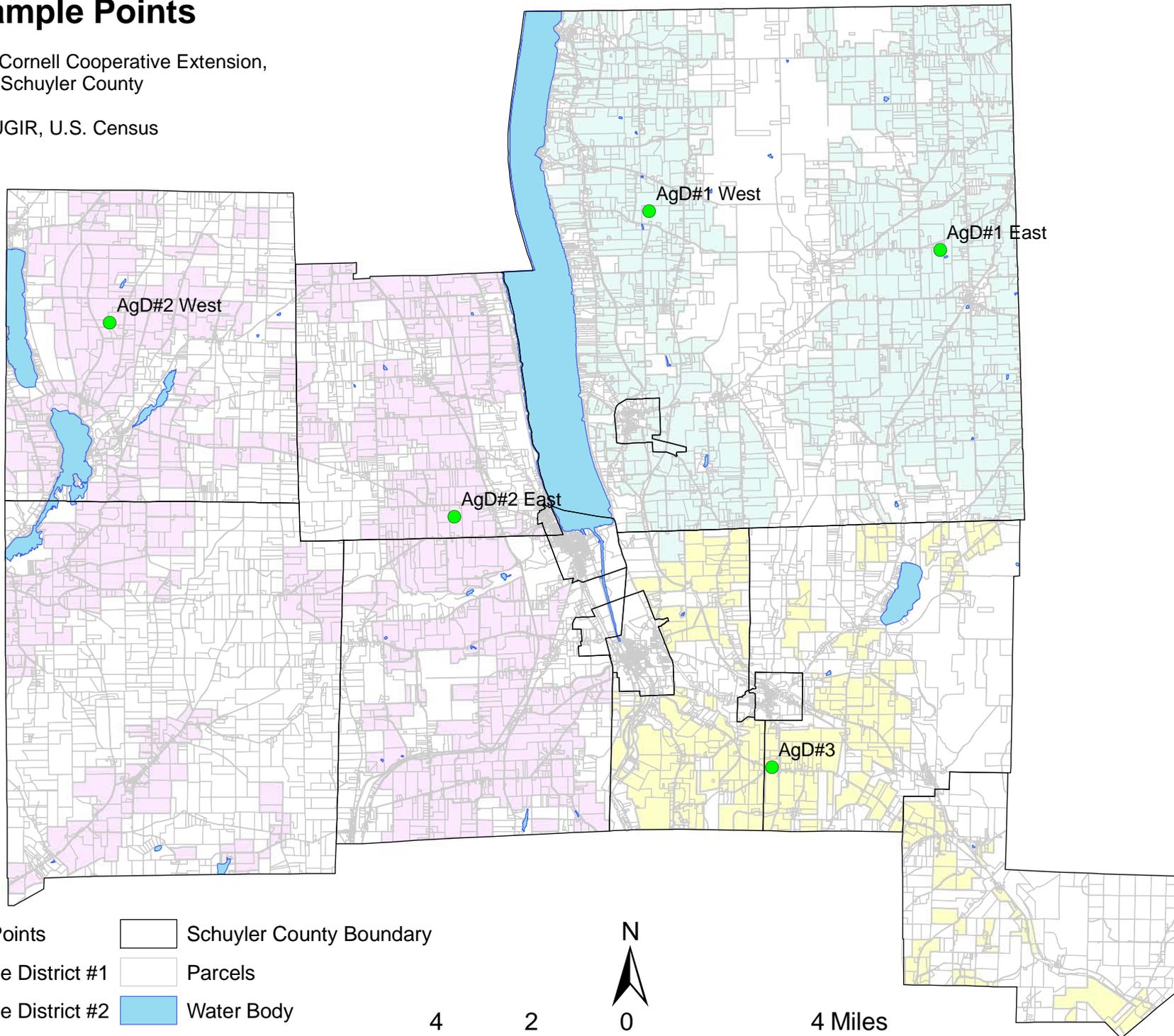
Based on this sample, it can be inferred that of the available farmland in Schuyler, an average of 11% may be fallow, but this amount can vary significantly depending on location.

Map 1: Sample Points

Map Created By: Cornell Cooperative Extension,
Schuyler County

Date: April 2010

Date Sources: CUGIR, U.S. Census



Legend

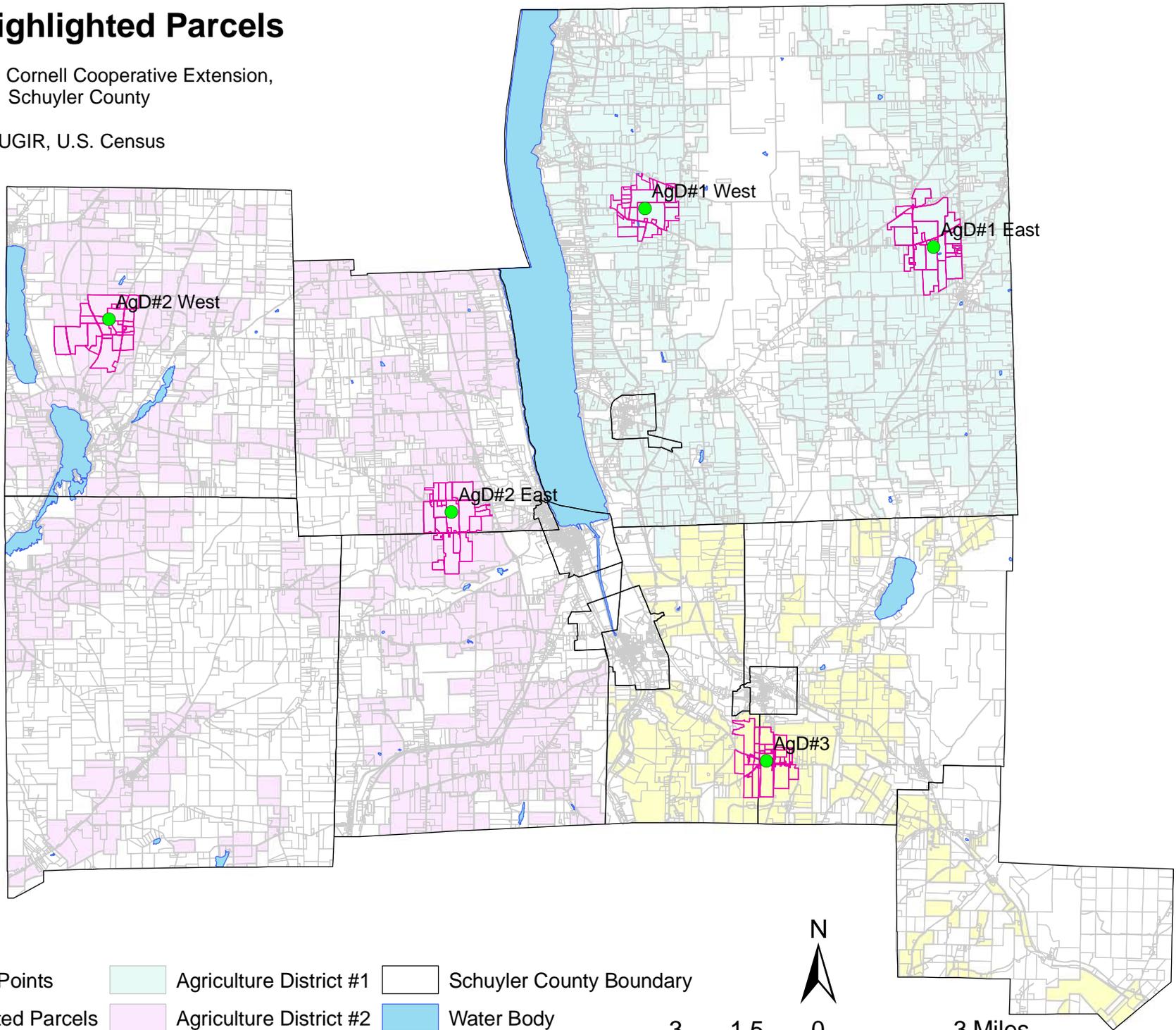
- Sample Points
- ▭ Schuyler County Boundary
- ▭ Agriculture District #1
- ▭ Agriculture District #2
- ▭ Agriculture District #3
- ▭ Parcels
- ▭ Water Body

Map 2: Highlighted Parcels

Map Created By: Cornell Cooperative Extension,
Schuyler County

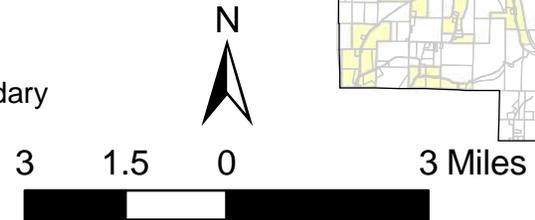
Date: April 2010

Date Sources: CUGIR, U.S. Census



Legend

- Sample Points
- Highlighted Parcels
- Agriculture District #1
- Agriculture District #2
- Agriculture District #3
- Schuyler County Boundary
- Water Body
- Parcels

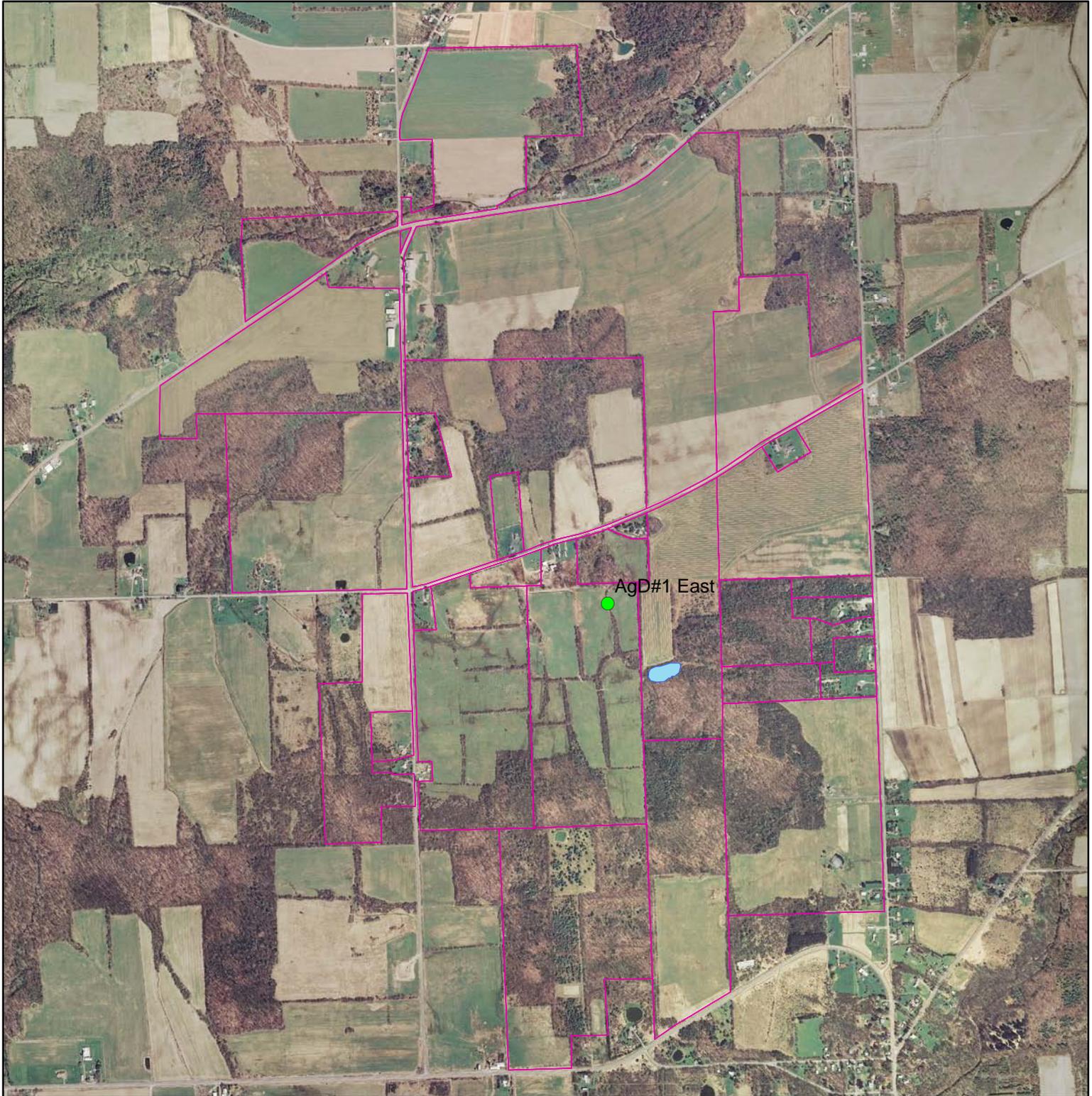


Map 3: Agriculture District #1 East

Map Created By: Cornell Cooperative Extension,
Schuyler County

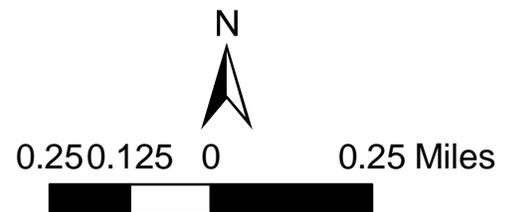
Date: April 2010

Date Sources: CUGIR, U.S. Census



Legend

-  Sample Points
-  Highlighted Parcels
-  Water Body

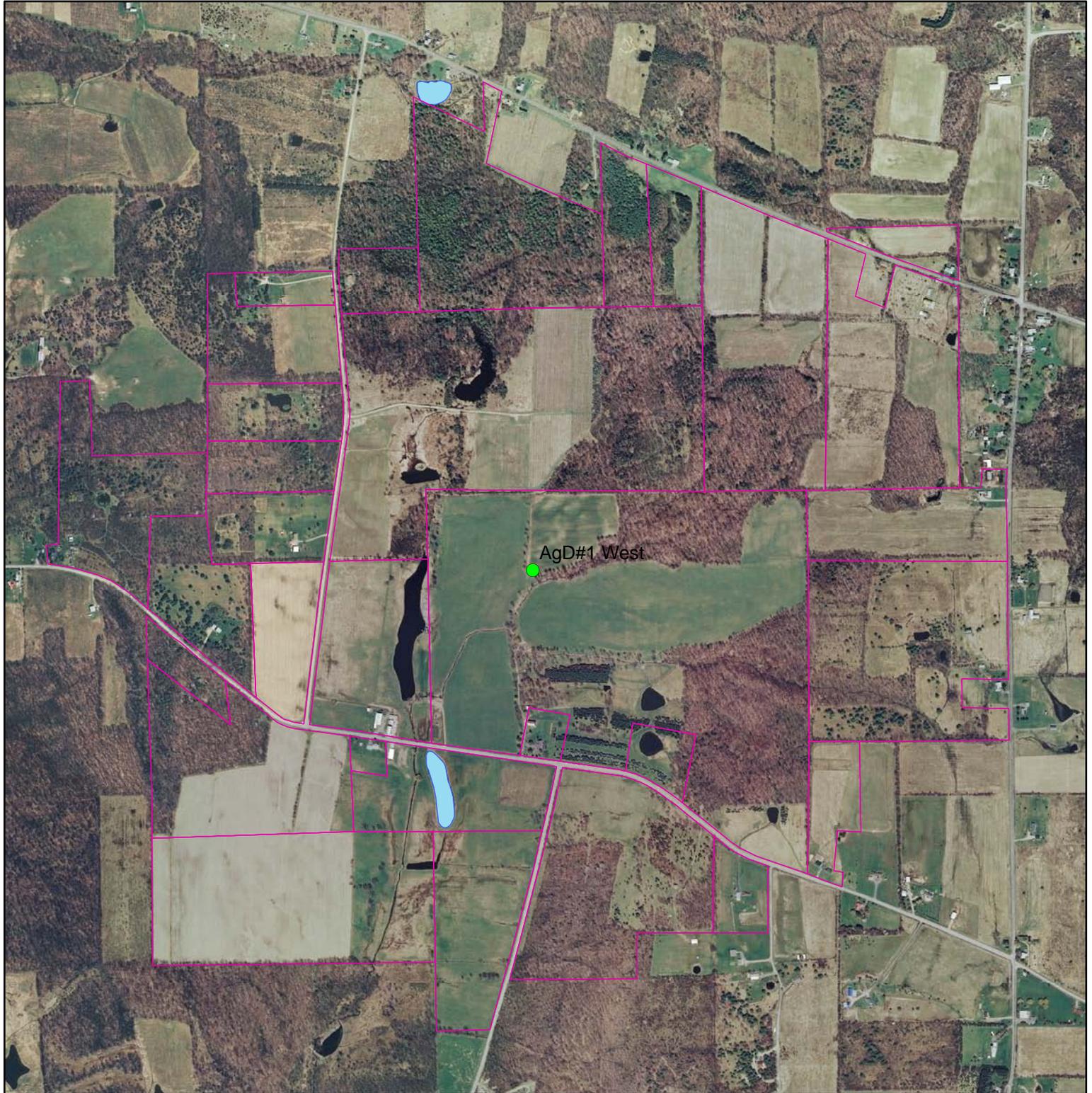


Map 4: Agriculture District #1 West

Map Created By: Cornell Cooperative Extension,
Schuyler County

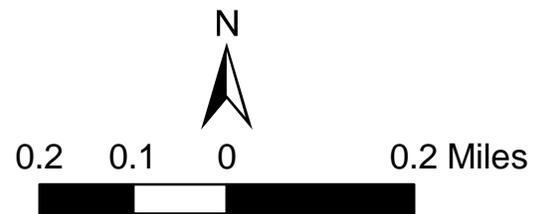
Date: April 2010

Date Sources: CUGIR, U.S. Census



Legend

-  Sample Points
-  Highlighted Parcels
-  Water Body



Map 5: Agriculture District #2 East

Map Created By: Cornell Cooperative Extension,
Schuyler County

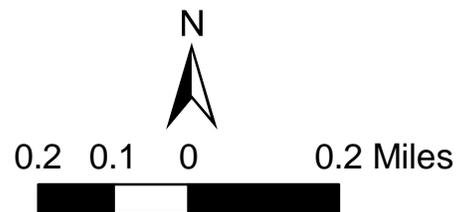
Date: April 2010

Date Sources: CUGIR, U.S. Census



Legend

-  Sample Points
-  Highlighted Parcels
-  Water Body

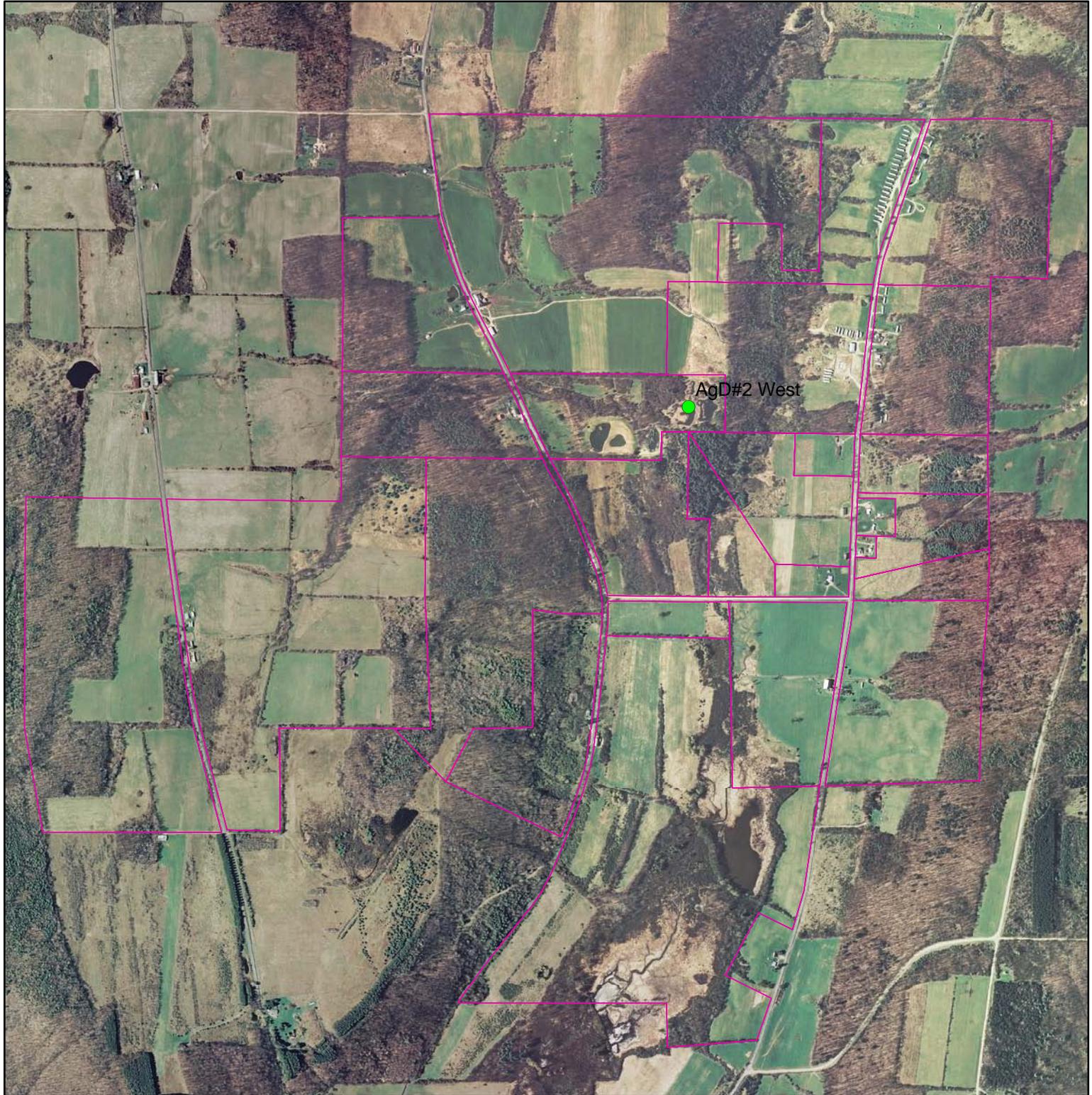


Map 6: Agriculture District #2 West

Map Created By: Cornell Cooperative Extension,
Schuyler County

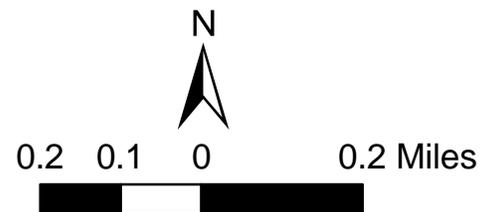
Date: April 2010

Date Sources: CUGIR, U.S. Census



Legend

-  Sample Points
-  Highlighted Parcels
-  Water Body

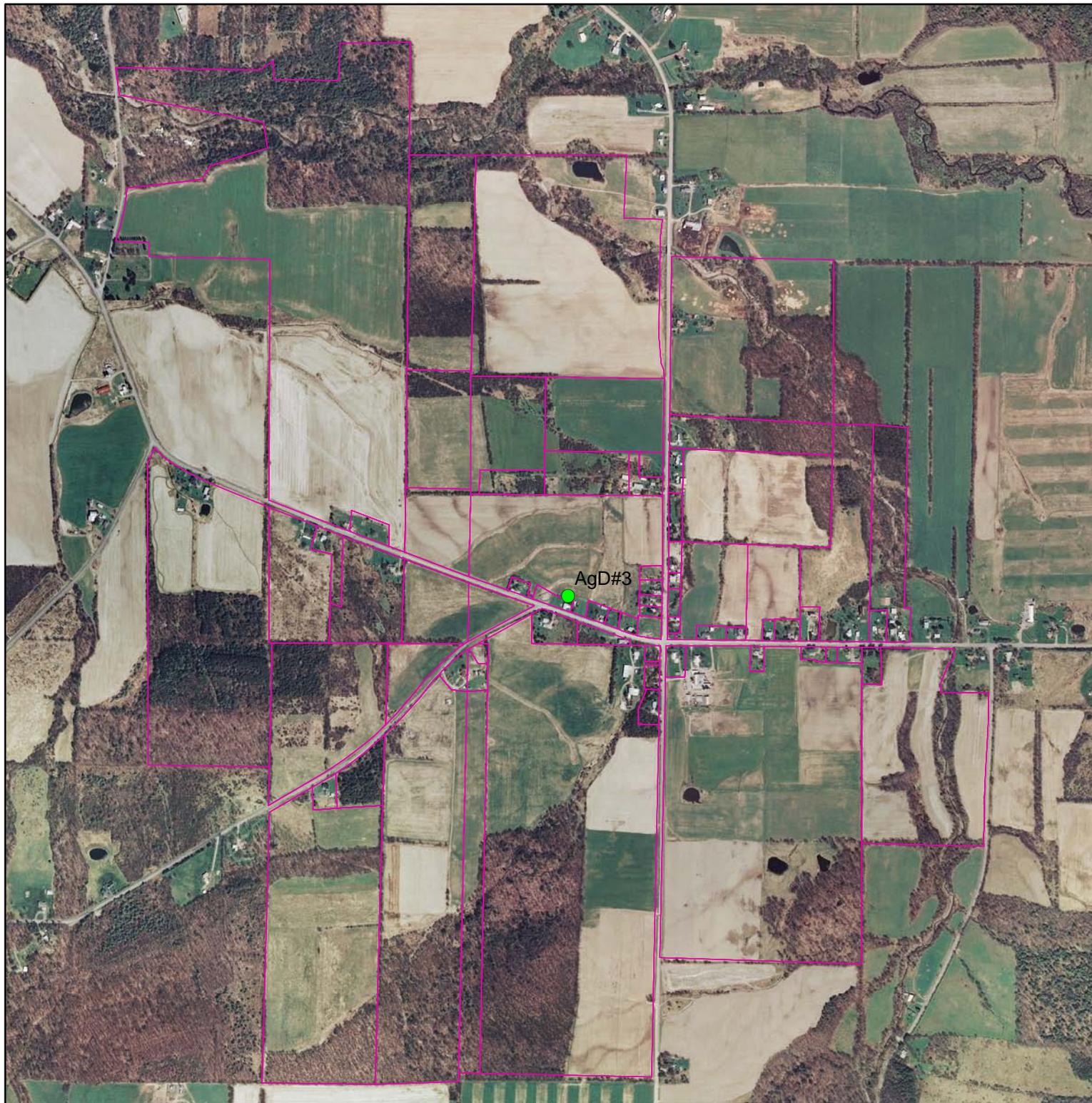


Map 7: Agriculture District #3

Map Created By: Cornell Cooperative Extension,
Schuyler County

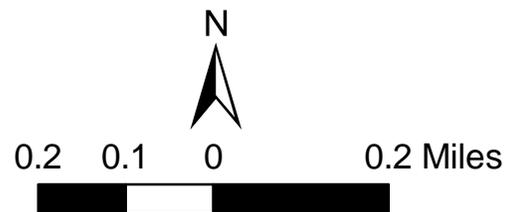
Date: April 2010

Date Sources: CUGIR, U.S. Census



Legend

-  Sample Points
-  Highlighted Parcels
-  Water Body



Appendix 1

AgD#1 East			
Parcel ID	Total Acres	Fallow Acres	% Fallow
15.00-1-70	423.99	6	1%
25.00-1-10	64.09	0	0%
25.00-1-10	54.00	0	0%
25.00-1-4	95.80	0	0%
25.00-1-41	101.98	1	1%
25.00-1-42	66.16	5	8%
25.00-1-44.1	92.87	10	11%
25.00-1-46	87.22	0	0%
25.00-1-47	82.07	7	9%
25.00-1-48	2.60	0	0%
25.00-1-5.11	134.97	44	33%
25.00-1-5.12	1.83	0	0%
25.00-1-5.2	6.96	1	14%
25.00-1-52.111	45.90	10	22%
25.00-1-52.21	6.08	2	33%
25.00-1-6.1	6.95	0	0%
25.00-1-6.2	5.42	4	65%
25.00-1-7	3.54	0	0%
25.00-1-9.11	11.02	0	0%
25.00-1-9.12	4.83	0	0%
25.00-1-9.211	21.56	0	0%
25.00-1-9.212	5.05	0	0%
25.00-1-9.22	4.36	0	0%
25.00-1-9.23	5.01	0	0%
25.00-1-9.24	5.66	0	0%
Total	1339.90	89.78	7%

AgD#1 West			
Parcel ID	Total Acres	Fallow Acres	% Fallow
12.00-1-50	7.50	0	0%
12.00-1-67.1	10.47	0	0%
12.00-1-67.2	9.84	0	0%
12.00-1-69.2	41.08	0	0%
12.00-1-70	104.03	22	21%
12.00-1-71	11.30	2	15%
12.00-1-72.1	12.41	1	10%
12.00-1-72.2	9.81	0	0%
12.00-1-73	17.66	7	37%
12.00-1-74.2	25.63	0	0%
12.00-1-75.112	4.81	0	0%
12.00-1-75.113	16.16	2	12%
13.00-1-2.1	50.17	7	14%
13.00-1-2.2	47.31	14	30%
22.00-1-60.114	23.82	0	0%
22.00-1-60.115	44.31	20	45%
22.00-1-61.111	64.91	0	0%
22.00-1-61.112	1.80	0	0%
22.00-1-61.113	21.33	0	0%
22.00-1-61.12	13.32	0	0%
22.00-1-61.2	4.94	0	0%
22.00-1-62	53.34	8	15%
22.00-1-64.11	157.65	11	7%
22.00-1-64.12	5.19	0	0%
22.00-1-64.2	2.90	0	0%
22.00-1-65	21.65	4	18%
22.00-1-66.1	50.46	40	80%
22.00-1-67.022	6.35	1	16%
22.00-1-67.112	8.83	0	0%
Total	848.97	138.87	16%

AgD#2 East			
Parcel ID	Total Acres	Fallow Acres	% Fallow
52.00-1-26.111	32.18	10	31%
52.00-1-26.114	31.41	3	9%
52.00-1-26.115	37.06	15	40%
52.00-1-26.117	6.09	3	42%
53.00-1-67	3.76	0	0%
53.00-1-68	101.45	6	5%
63.00-1-10	45.88	0	0%
63.00-1-11	6.38	3	47%
63.00-1-12	6.69	4	52%
63.00-1-14.11	1.01	0	0%
63.00-1-14.12	103.96	20	19%
63.00-1-14.2	2.16	0	0%
63.00-1-15	5.00	0	0%
63.00-1-16	0.95	0	0%
63.00-1-18.1	46.93	25	53%
63.00-1-18.2	2.89	0	0%
63.00-1-7	92.03	0	0%
63.00-1-8	0.65	0	0%
63.00-1-9	4.83	0	7%
63.00-3-14.113	13.28	8	58%
64.00-1-1.1	118.68	14	12%
64.00-1-3.11	16.56	0	0%
64.00-1-4.11	23.08	0	0%
64.00-1-53.2	50.24	25	50%
64.00-3-1.1	168.52	42	25%
64.00-3-1.2	1.95	0	0%
64.00-3-2	0.63	0	0%
64.00-3-3.11	37.85	1	1%
64.00-3-3.12	86.72	0	0%
Total	1048.84	176.55	17%

AgD#2 West			
Parcel ID	Total Acres	Fallow Acres	% Fallow
28.00-1-12	79.79	0	0%
28.00-1-13	85.97	4	5%
28.00-1-14.1	0.88	0	0%
28.00-1-14.211	40.38	6	15%
28.00-1-14.212	14.77	3	17%
28.00-1-14.213	4.57	0	0%
28.00-1-14.214	13.66	0	0%
28.00-1-14.215	9.57	3	34%
28.00-1-15	114.75	10	9%
28.00-1-16	59.04	0	0%
28.00-1-17	183.93	0	0%
28.00-1-21	232.01	9	4%
28.00-1-31	2.82	0	8%
28.00-1-32	4.86	0	0%
39.00-1-11	187.99	34	18%
39.00-1-12	87.92	10	11%
Total	1122.90	78.81	7%

AgD#3			
Parcel ID	Total Acres	Fallow Acres	% Fallow
107.00-1-16	1.14	0	25%
107.00-1-17.1	75.48	29	38%
107.00-1-17.2	3.97	0	0%
107.00-1-18	1.23	0	0%
107.00-1-19	56.31	2	4%
97.00-1-18	1.33	0	0%
97.00-1-19.111	134.26	0	0%
97.00-1-24	23.10	6	24%
97.00-1-25	12.44	0	0%
97.00-1-26	8.05	0	0%
97.00-1-27.1	10.37	0	0%
97.00-1-27.2	1.97	0	0%
97.00-1-28.1	57.03	0	0%
97.00-1-62	11.77	10	85%
97.00-1-64	7.80	5	64%
98.00-1-30	35.97	0	0%
98.00-1-34	11.66	0	0%
98.00-1-35	0.90	0	0%
98.00-1-36	1.17	0	0%
98.00-1-37	17.72	8	42%
98.00-1-38	99.24	8	8%
98.00-1-39	120.59	0	0%
98.00-1-41	30.89	5	16%
98.00-1-42	22.66	1	4%
98.00-1-43	1.47	0	0%
98.00-1-44	0.96	0	0%
98.00-1-45	8.57	0	0%
98.00-1-46.111	11.74	2	17%
98.00-1-46.112	2.60	1	23%
98.00-1-46.12	14.28	0	0%
98.00-1-46.2	6.01	1	8%
98.00-1-47	42.90	0	0%
98.00-1-48.12	64.28	5	8%
98.00-1-50.2	0.47	0	0%
98.13-1-1	0.47	0	0%
98.13-1-10	0.52	0	0%
98.13-1-11	1.04	0	0%
98.13-1-12	1.08	0	0%
98.13-1-13	0.67	0	0%
98.13-1-14	0.32	0	0%
98.13-1-15	0.57	0	0%
98.13-1-16	0.34	0	0%
98.13-1-17	0.09	0	0%
98.13-1-18	10.42	0	0%
98.13-1-19	0.69	0	0%

98.13-1-2	0.79	0	0%
98.13-1-20	0.42	0	0%
98.13-1-21	7.01	7	100%
98.13-1-22	0.90	0	0%
98.13-1-23	1.09	0	0%
98.13-1-24	0.41	0	0%
98.13-1-25	0.64	0	0%
98.13-1-26	0.28	0	0%
98.13-1-27	1.07	0	0%
98.13-1-28	0.55	0	0%
98.13-1-29	0.55	0	0%
98.13-1-3	0.59	0	0%
98.13-1-30	0.59	0	0%
98.13-1-31	0.39	0	0%
98.13-1-33	1.20	0	0%
98.13-1-34	2.24	0	0%
98.13-1-4	0.37	0	0%
98.13-1-5	0.52	0	0%
98.13-1-6	0.83	0	0%
98.13-1-7	0.38	0	0%
98.13-1-8	0.41	0	0%
98.13-1-9	0.56	0	0%
98.00-1-40	13.01	0	0%
98.00-1-50.1	1.05	0	0%
98.00-1-50.2	3.14	0	0%
Total	955.56	87.88	9%

Appendix 2

The following pictures show some of the parcels that were visited.

The following parcel was classified as fallow:



The following parcels were classified as active:

