

Dutchess County Soil and Water District

LESA as a tool for:

County Wide Resource Planning

- Agricultural Lands
- Habitat
- Water Resources

Farmland Protection

- Modified Selection Criteria

Community Assistance

- Farmland Protection
- Resource Issues

Ecosystem Based Management

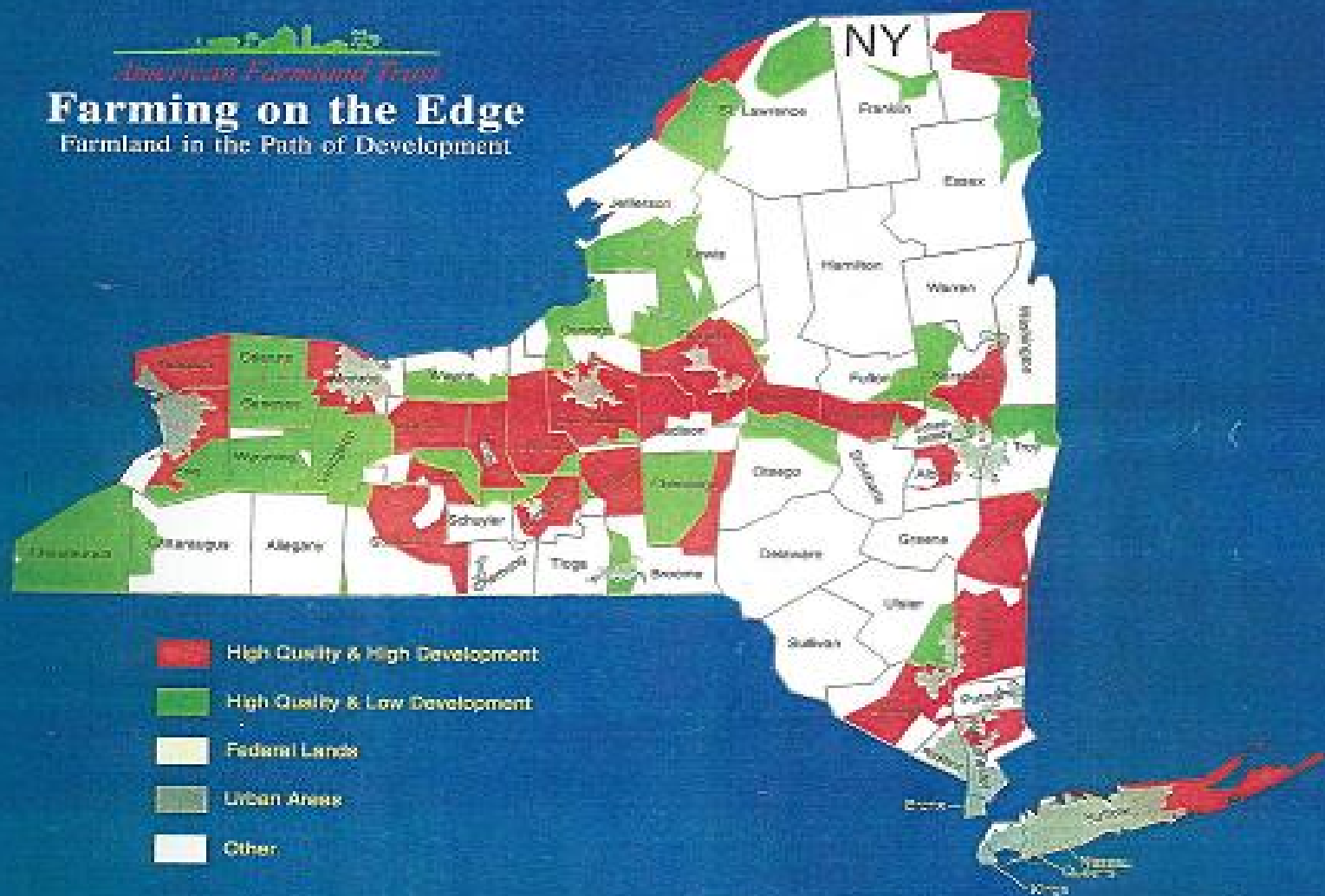
- Site Selection
- Program Delivery



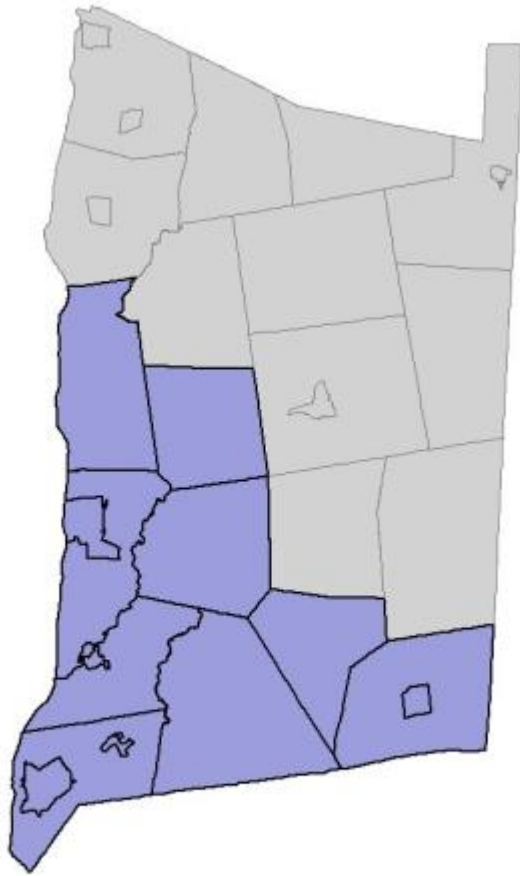
American Farmland Trust

Farming on the Edge

Farmland in the Path of Development



Dutchess County



514,600 Acres of Dutchess County

160,000 Acres of Ag Land

283,030 Acres of Woodland

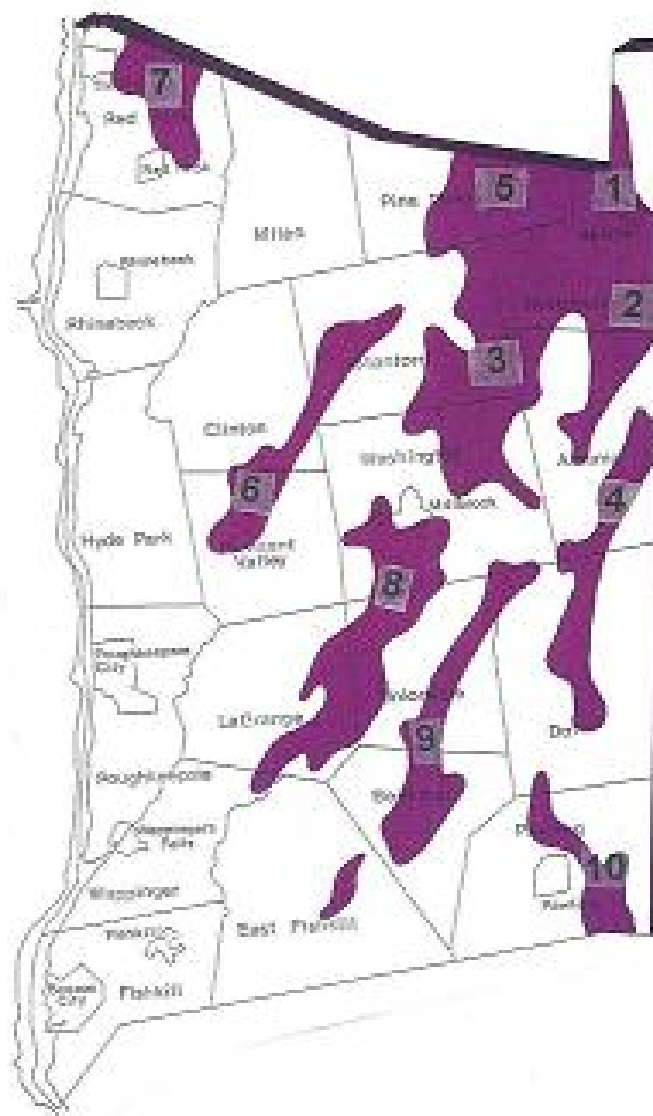
Population of 292,000

Prime Farmland Soils 63,932 Acres*

Statewide Importance Soils 192,923 Acres

DUTCHESS COUNTY'S AGRICULTURAL AREAS

1. Panhandle Prime Soils Area: Town of North East
2. Dutchess Dairy Heartland: Towns of North East and Amenia
3. Smithfield Valley: Town of Amenia
4. Oblong Valley Prime Soils Area: Town of Amenia
5. Pine Plains Prime Soils Area: Town of Pine Plains
6. Salt Point Prime Soils Area: Towns of Pleasant Valley and Clinton
7. Red Hook Breadbasket Area: Town of Red Hook
8. Sprout Creek
9. Clove Valley
10. Great Swamp, Pawling



7. Red Hook Breadbasket Area: Town of Red Hook

Prime and Statewide Important Soils (Class I - IV)
Dairy, beef, crops, fruit, and intensive vegetable operations
Highly scenic views from State, County, and Town roads
Popular Agri-tourism attractions
Headwaters of Sooty Creek, White Clay Kill, Tivoli Bays

8. Sprout Creek

Tree Farms
Dairy, Apples, Vegetables

9. Clove Valley

Beef, Sheep, Horses
Extensive wildlife habitat

10. Great Swamp: Pawling

Scenic Vistas
Designated Wetlands
Horses
Vegetables

Source: Soil & Water Conservation District, Cornell Cooperative Extension Dutchess County, DC Department of Planning and Development

In 1991, portions of seven areas were included in a list of Land Acquisition Project recommendations compiled for the New York State Open Space Plan.

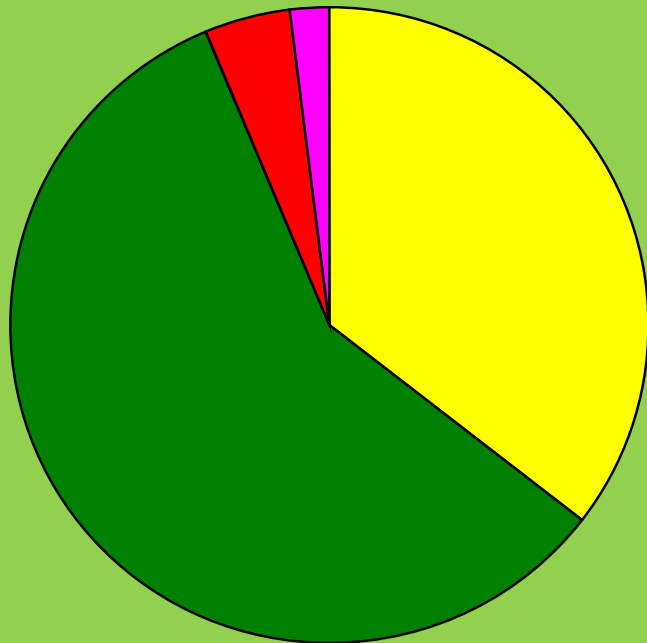
North East: Panhandle Prime Soils Area	1,131 acres
North East/Amenia: Dutchess Dairy Heartland	7,223 acres
Amenia/Smithfield Valley	807 acres
Amenia: Oblong Valley	1,277 acres
Pine Plains: Pine Plains Prime Soil Area	2,757 acres
Pleasant Valley/Clinton: Salt Point Prime Soils	845 acres
Red Hook: Red Hook Breadbasket Area	<u>3,096 acres</u>

Total Acreage	17,136 acres
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Source: Dutchess Land Conserv

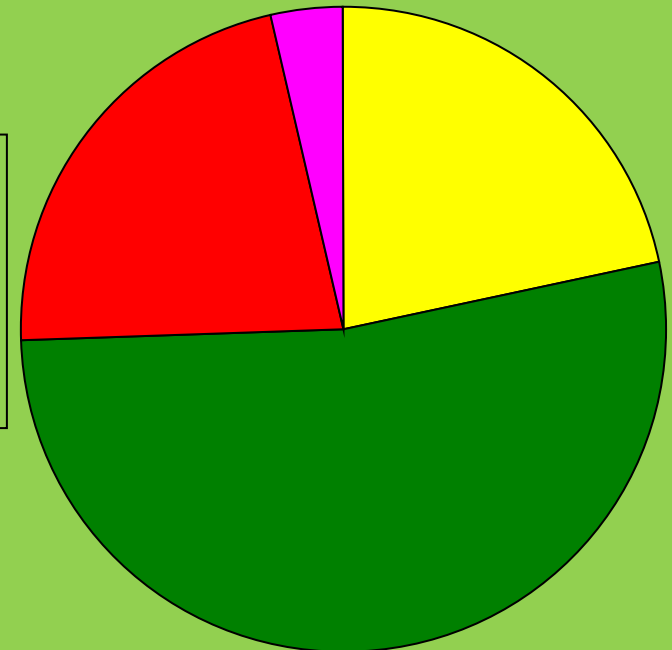
Land use 1979 Vs. 1994 for the Wappinger Watershed

1979 Land-Use Data



Data Source:
USGS

1994 Land-Use Data



Data Source:
DCEMC

Salt Point Prime Soils Area



Changing Landscapes

Salt Point Prime Soils



8. Sprout Creek



2. Dutchess Dairy Heartland



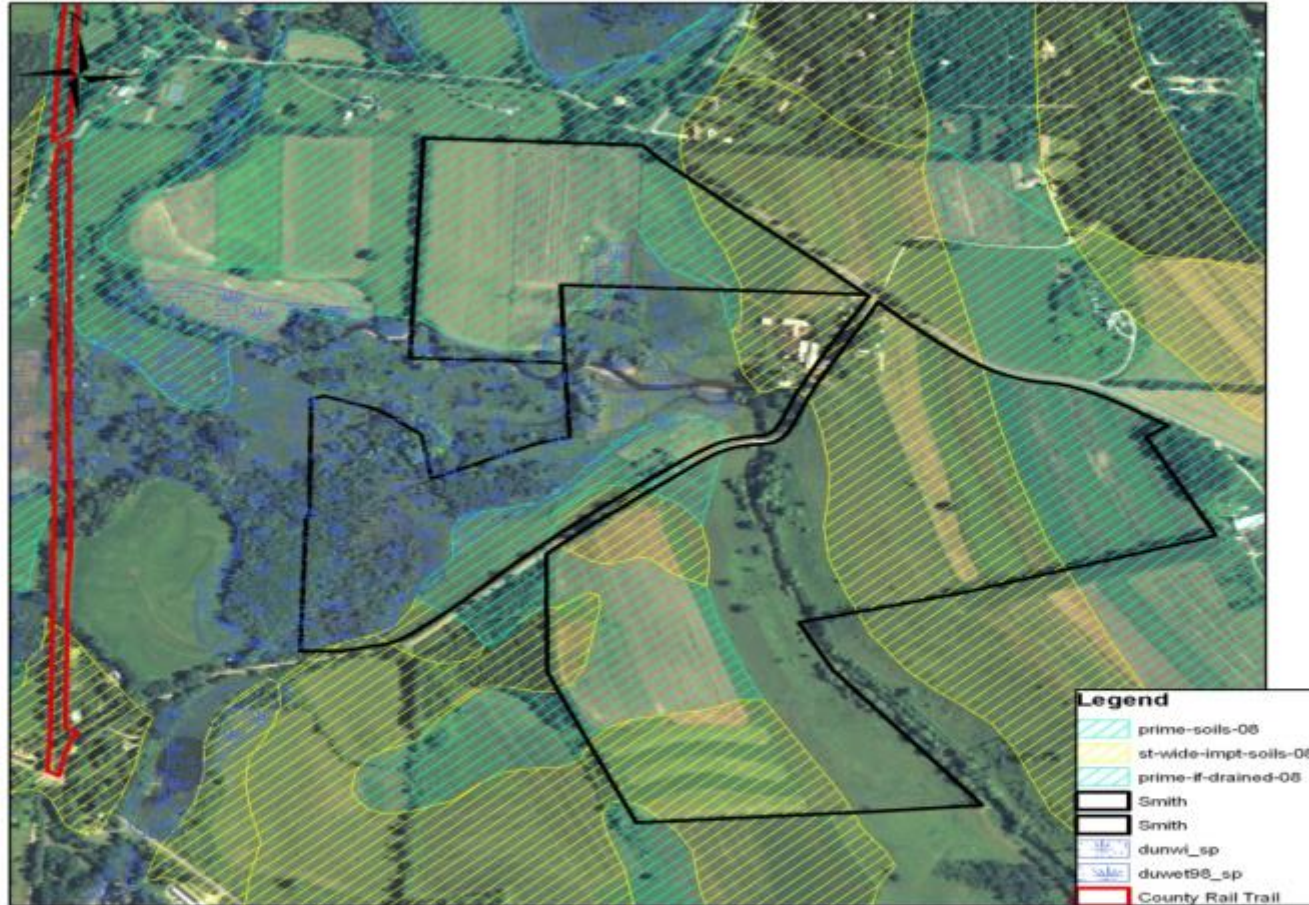
Dutchess County Agriculture and Farmland Protection Board: PDR Criteria Worksheet

Resources Protection		Point Per							
July 28, 2008 Category		Pulver	Mead-82	Sanford	Marshall	Chase	Wolcott	Smith	
Soils -- Prime and Important Farmland		11	10	11	10	11	7	8	10
Water Resources		11	10	2	7	10	5	6	10
Wildlife Habitat		8	6	4	6	6	4	4	8
Conservation Plan		2	2	0	2	2	2	2	2
Implemented		8	8	0	8	8	8	8	8
Scenic Value		5	5	5	5	5	5	2	5
Historic		5	3	3	3	4	3	2	5
Subtotal		50	44	25	41	46	34	32	48
Viability									
Economics, Feasible potential		12	0	10	9	10	9	6	10
Current activity -- management		12	10	12	8	12	10	6	12
Located in core farming area		10	10	10	10	10	10	4	10
Services neighboring farms		5	5	0	4	4	0	0	5
Subtotal		39	25	32	31	36	29	16	37
Development Pressure									
Adjacent Land Protected		10	5	10	0	0	0	3	8
Adjoining property, lots, subdivisions, or open		10	10	8	6	8	9	7	10
Rapid growth Urban Community		8	5	6	8	8	8	6	3
Relative to character of town		5	5	5	3	5	5	5	5
Subtotal		33	25	29	17	21	22	21	26
Local Support									
ProActive Local Government		10	8	10	10	8	8	8	8
Funding Support		15	1	15	12	5	3	3	8
Town Zoning/Master Plan/Right to Farm Law		5	3	5	5	3	3	3	3
Landowner donation commitment		5				2	5	5	
Subtotal		35	12	30	27	18	19	19	19
Total		157	106	116	116	121	104	88	130
Total as Percentage		100.00%	67.50%	73.90%	73.90%	77.10%	66.20%	56.10%	82.80%

Smith's



TOWN OF NORTH EAST SMITH

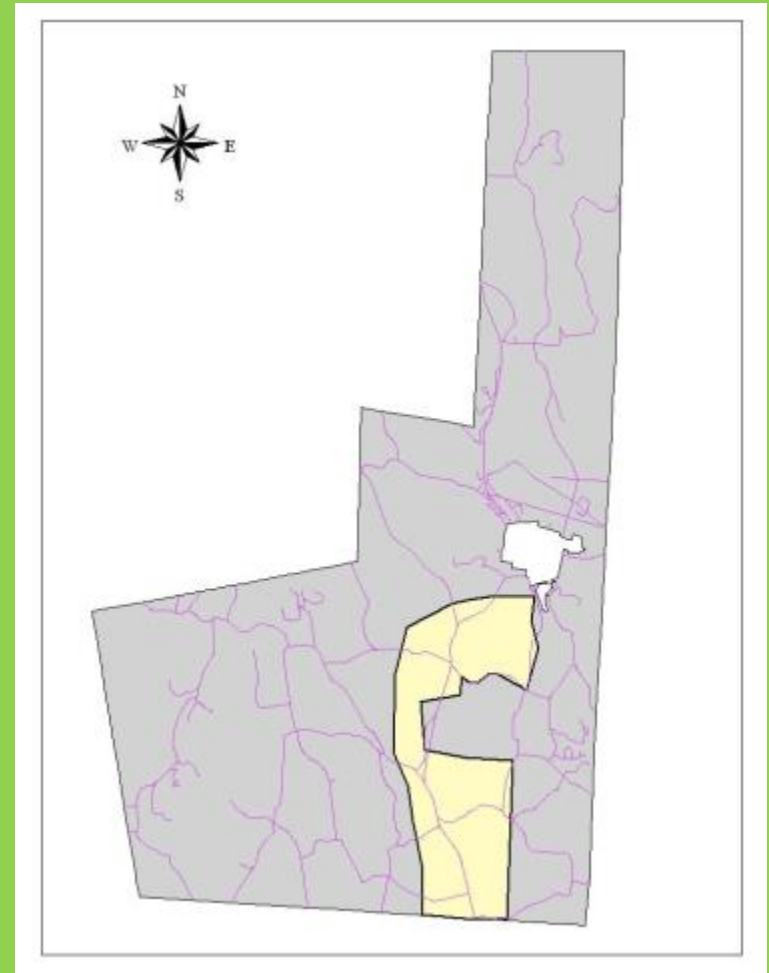
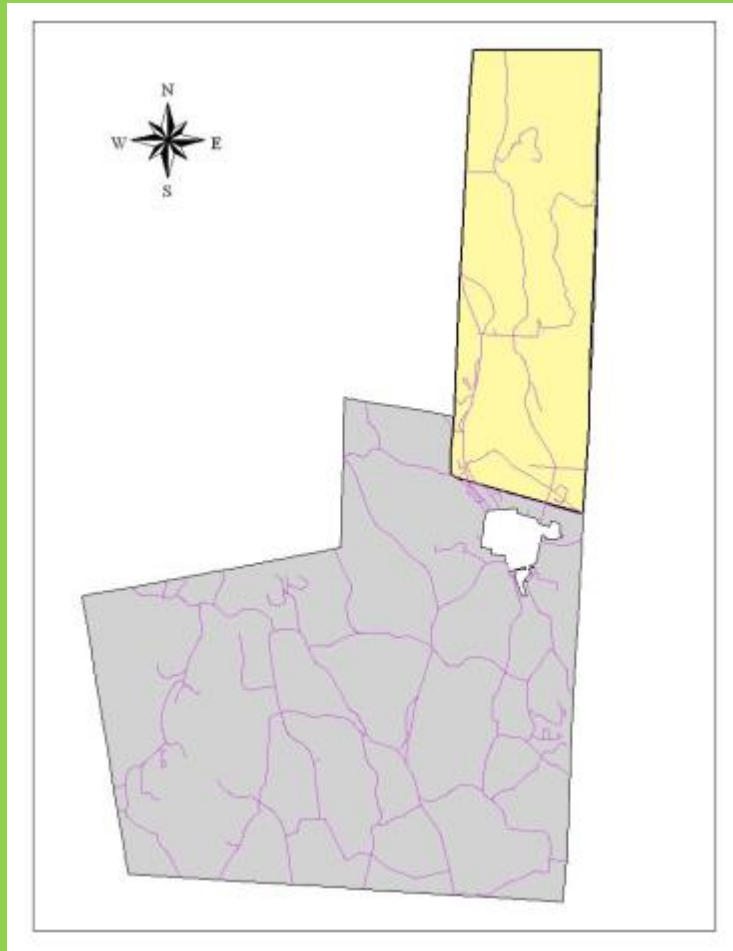


0 950 1,900 Feet

Produced on
Map Produced by Dutchess County
Soil & Water Conservation District
NOT FOR SITE SPECIFIC WORK
ALL INFORMATION MUST BE SITE VERIFIED

Ag District - Dutchess County Real
Property Tax Agency 2009.
Soils - US Department of Agriculture
(USDA) Natural Resources Conservation
Service (NRCS) Soil Survey Geographic
Data Base (SSURGO), 1998.
Tax Parcels - Dutchess County Real
Property Tax Service Agency, 2012
Aerials2009, DC OCIS

Community Assistance Route 22 Corridor Town of Northeast





Route 22 Scenic/Agriculture Corridor Panhandle Town of North East

- Prime Soils
- Statewide Important Soils
- Ag District Parcels
- Tax Parcels

2. Dutchess Dairy Heartland



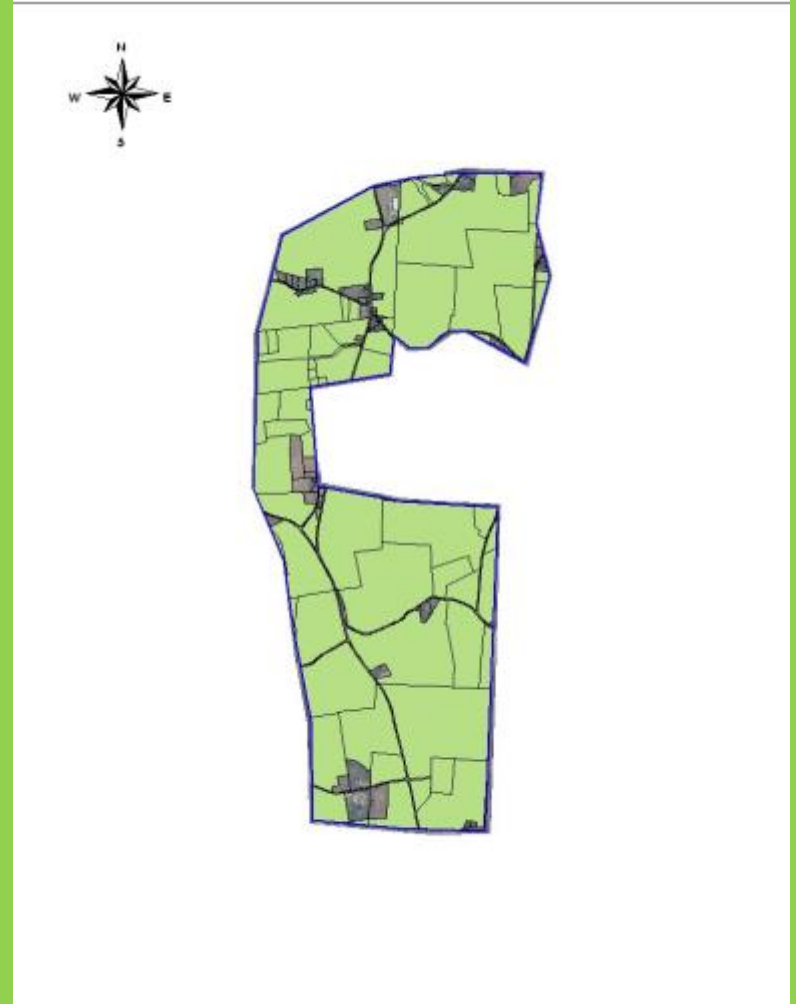
Route 22 Scenic/Agriculture Corridor

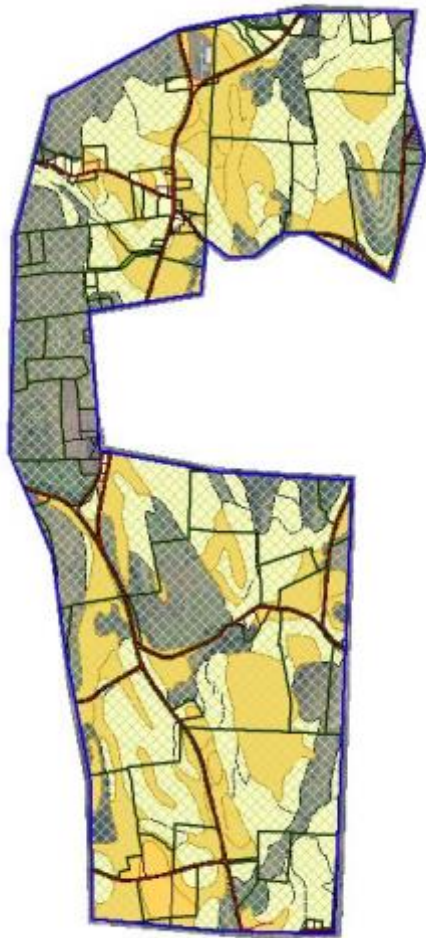
SOUTHERN CORRIDOR

AERIAL PHOTO



AG DISTRICTS





- Prime Soils
- Statewide Important Soils
- Ag District Parcels
- Tax Parcels

Southern Corridor

Mission

To support communities, public officials, Districts in their efforts to protect local soil and water resources from unplanned municipal landuse impacts.



Challenge

Degradation of natural resources resulting from landuse development



- Degraded drinking water quality
- Erosion
- Stormwater runoff
- Habitat fragmentation



Challenge (Cont'd)

Although strides have been made to be more conscious of natural resources in planning, negative effects continue to arise as a result of ineffective *systems* planning.



Challenge (Cont'd)

Ecosystems provide us with a wide range of benefits and services that make our lives possible.

The degradation of the environment negatively impacts ecosystems' ability to provide these services.

In turn, the health and wellbeing of communities and individuals is compromised.



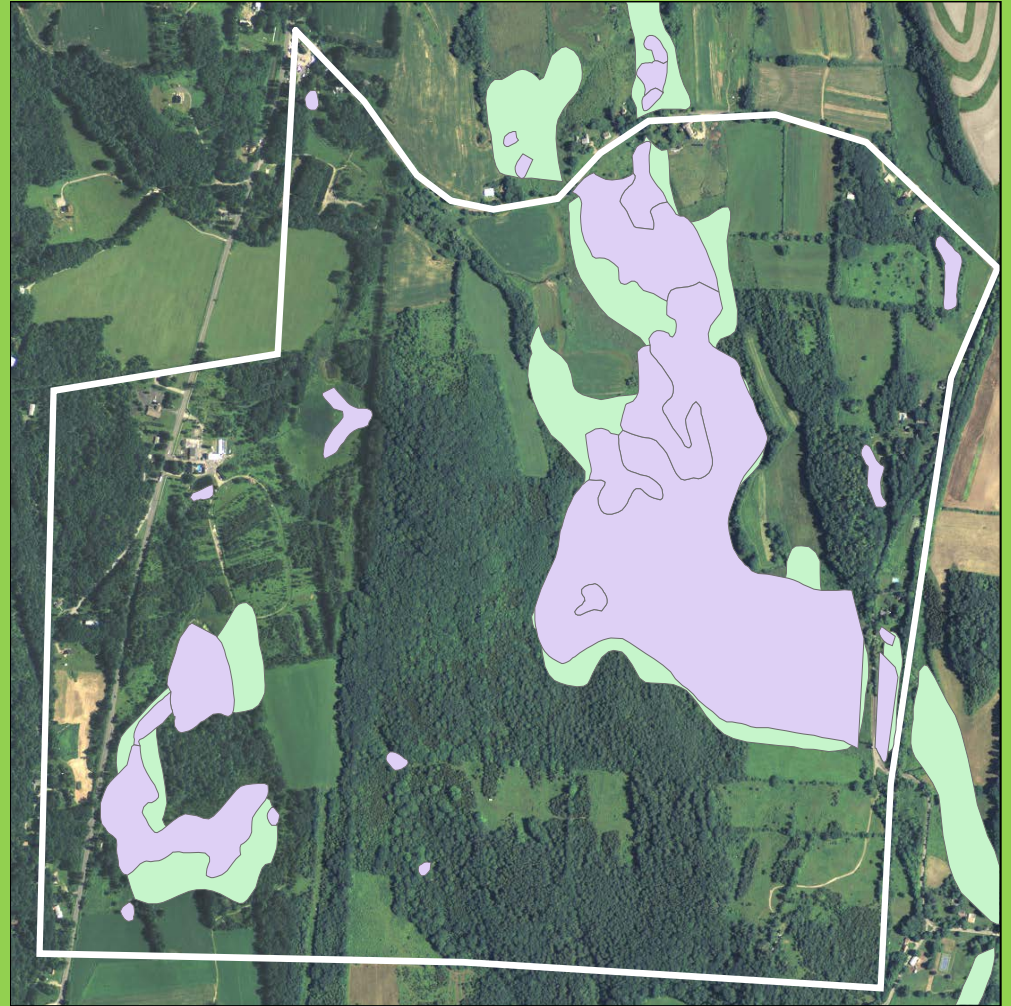
Ecosystem Based Management (EBM)

New York State's new initiative to integrate knowledge amongst sectors to better coordinate planning and improve the health of local ecosystems.

EBM focuses on how natural systems are impacted by human activities, and vice versa.



Ecosystem Based Management Resource Planning



EBM Goals

- Lead to decisions based on a holistic understanding of ecosystems
- Place-based management
- Be adaptive and responsive to change
- Foster cooperation and coordination among sectors



EBM in Action

Given that most land use decisions are made at the local level, it is appropriate that change be pursued at a local scale.



Soil and Water Conservation Districts are positioned to play a pivotal role in assisting communities to implement EBM at the local level.



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