

County of Warren

COMPREHENSIVE FARMLAND PRESERVATION PLAN



Compiled by



Morris Land Conservancy
A nonprofit land trust

with



**Warren County Agriculture
Development Board**

April 2008

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for

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APRIL 2008

The County of Warren Comprehensive Farmland Preservation Plan

Produced by:

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EXECUTIVE SUMMARY



Expansive fields, busy dairy farms, and bucolic farm stands highlight the rural beauty and heritage of Warren County. Nearly half of the County is farmland assessed, and more than one-third of it is actively farmed. Warren County has some of the most productive soils in the region, which support the highest yields of corn and field crops anywhere in the State. Where steep, scenic slopes and less productive soils cover the County's landscape, the epicenter of New Jersey's dairy and livestock industry are found. Warren County farmers are also continuing to explore more profitable agricultural practices, such as nursery and floriculture production. Niche markets, such as wineries, farm stands, and equine facilities, have also become prominent in the County. This combination of traditional and innovative farming practices will ensure the continued preeminence of agriculture in Warren County.

Of the land in Warren County that is not in agricultural production, most is covered by rich forests, wetlands, and winding rivers. The County's vast acreage of parkland and natural resource areas are concentrated on top of the Highlands and Kittatinny Ridgelines. These places provide a fitting backdrop to the large farm belts within the Musconetcong, Delaware, and Pequest River Valleys. Warren County's natural and agricultural areas are dotted by many charming small towns. These towns play an important role in the County's agricultural infrastructure as well as providing centers for sales and marketing of agricultural products and supplies. The rural setting of Warren County – with its delicate combination of natural areas, farm belts, and small towns – is rare in New Jersey. Thankfully, Warren County has been able to retain its agricultural landscape and way of life in the face of overwhelming pressure.

Despite its success, the agricultural industry in Warren County faces threats to its long-term prosperity. The milk and dairy industry – one of Warren County's most vital agricultural sectors – is experiencing an extended, steady decline. A growing number of dairy farmers are seeking other sources of revenue to supplement their agricultural income. While many have adjusted their operations to produce different livestock, products, or crops, such as cattle and nursery goods, others find selling their land to be a more attractive option. Increasing costs of farming compound this trend. Record-high land prices impose dramatically increasing property taxes on farmers. More farmers than ever are renting ground and young, prospective farmers are finding the costs of purchasing land to be prohibitively high. Farmers must also contend with the inadequate inventory of locally available support services, and rely heavily on one another's help and expertise.

Farmers in Warren County face challenges from outside the agricultural realm as well. Warren County's population has more than doubled during the past sixty years, which has drastically changed the local political climate. Residents are less amenable to agriculture

than in the past, and farmers' access to necessities such as groundwater rights and road usage has been negatively impacted. Unfortunately, municipal zoning schemes presently zone most of the land in Warren County for development densities of one unit for every one to five acres – a development pattern that, if realized, will perpetuate farmers' hardships and make selling their lands increasingly attractive.

Land use planning efforts at the state and county levels have aimed to minimize the impact of new development on the agricultural industry. The State Development and Redevelopment Plan designated a large portion of Warren County as Rural and Environmentally-sensitive lands, and encourages the clustering of development within defined "centers" in order to preserve the County's rural environs. Warren County's recently released Strategic Growth Plan also advocates development clustering, smart growth practices, and land preservation to advance similar objectives.

Consequently, Warren County has aggressively pursued the preservation of its rural environs. Since the program's inception in 1986, the County Agriculture Development Board (CADB) has preserved **15,125 acres** of farmland in Warren County, and the Board of Chosen Freeholders has established the goal of preserving **20,000 total acres** by 2010. This Comprehensive Farmland Preservation Plan furthers this effort by outlining the County's Agricultural Development Area and identifies seven Project Areas that will be the basis for future farmland preservation efforts. This Plan also identifies the criteria used by the Warren CADB that guide its members in targeting farms for preservation. These criteria include:

- soil quality
- tillable acreage
- buffers and boundaries
- zoning
- infrastructure
- municipal commitment
- financial partnership

There are many innovative ways to promote Warren County agriculture into the future. Efforts to support "value-added" products such as organic and processed goods promise to make individual operations more profitable. Government conservation programs such as the WHIP and LIP programs, offer funding to farmers who actively work to minimize the ecological footprint of their farms. Also, fourteen out of twenty-two Warren County municipalities have enacted Right-to-Farm ordinances, and ten towns have established municipal planning incentive grant (PIG) programs. Strong actions like these show support for the practice of agriculture and indicate a willingness to cooperate in order to maintain local farms. Recommendations for future policy initiatives to preserve agriculture in Warren County include:

- Partner with government agencies to encourage participation in various agricultural and natural resource conservation programs that are available.

- Encourage municipalities with existing Right-to-Farm ordinances to strengthen and enforce them. Help municipalities without Right-to-Farm ordinances develop them.
- Ensure the availability of farm laborers.
- Ensure farm workers are treated fairly and humanely.
- Support young farmer and labor education programs.
- Continue public outreach and education efforts.
- Assist in the development of wildlife management strategies.
- Allow adequate agricultural vehicular traffic on State, County, and local roadways.
- Advocate regulatory flexibility regarding approved agricultural activities.
- Encourage more towns to participate in the State-sponsored municipal planning incentive grant (PIG) program;
- Support innovative farming practices that support local farmers by increasing their marketability and profits.
- Develop regulations that support, encourage, and sustain farming in the County.

CHAPTER 1: AGRICULTURAL LAND BASE OF WARREN COUNTY



Warren County is integral to New Jersey’s agricultural economy and farming heritage. The County supported 814 individual farms in 2002 (fifth in the State) on 78,042 acres (fourth in the State). Corn for grain – the County’s principal crop – was planted on 16,840 of these acres (first in the State). Warren County also contains New Jersey’s most notable concentration of livestock operations with 8,269 cows (first in the State) on 236 farms (second in the State) that range over 12,504 acres (third in the State). (*2002 Census of Agriculture*)¹

Numbers alone do not capture the full impact of Warren County’s farmland. The County’s contiguous farm belts and scenic agricultural lands bestow the County with a unique rural setting found nowhere else in New Jersey. Motorists and cyclists enjoy roadways that pass through miles of uninterrupted farmland, and fertile valleys spread out beneath towering ridgelines offering breathtaking viewsheds. Many farms in Warren County are also located near or operated in conjunction with valuable natural resource and park lands. This combination of agriculture and open space creates an undeveloped, natural landscape that spans large areas of the County. This landscape has been the living and working environment for generations of Warren County residents, and for many, it means home.

Agricultural Landscape

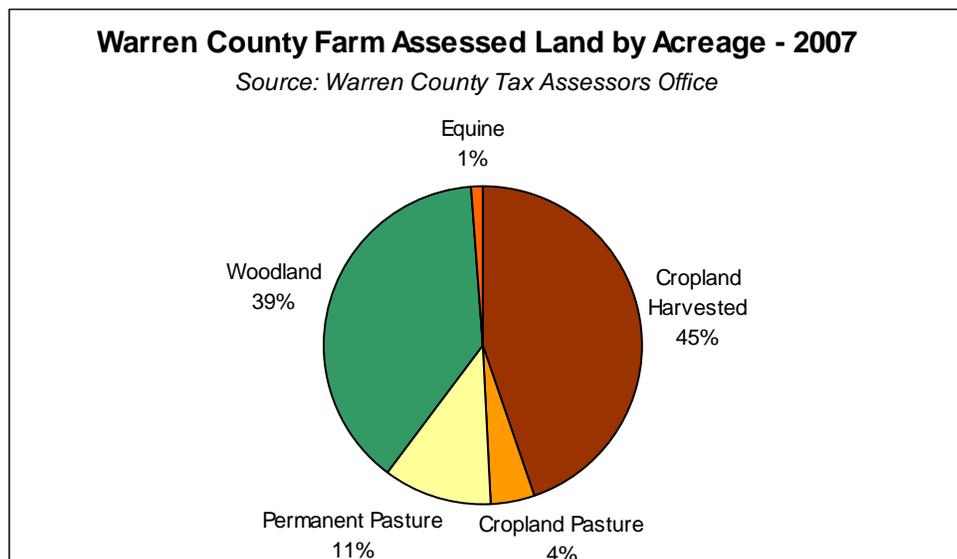
Agricultural areas dominate the countryside of Warren County. Over 105,520 of the County’s 232,000 acres (45%) are assessed as farmland, and large agricultural areas are found throughout the County. The agricultural land base of Warren County is also very diverse. The County’s farmlands support 47,218 acres of harvested cropland, 4,747 acres of cropland pastures, 11,767 acres of permanent pastures, and 40,734 acres of privately owned woodlands, as well as a variety of other agricultural operations (see *Farm Assessed Land* charts on pages 1-2 and 1-3). (*2007 Warren County Tax Assessors Office*)²

Geography plays an important role in determining the distribution of these different farmland uses. A combination of physical factors, including topography, soils, and surface water, has created distinct areas that are best suited to accommodate certain types of agricultural activities. Field crops such as corn and soybeans are generally most successful on flat, dry land with good soils. Rolling, grassy hills with lower quality soils are more fitting for pastures while steep topography and relatively poor soils are usually best managed as woodland areas.

Warren County’s most productive field crop areas fall within the broad plains associated with the Musconetcong, Delaware, and Pequest River Valleys. The Musconetcong River Valley encompasses the southern portions of Mansfield, Washington, Franklin, Greenwich, and Pohatcong Townships, and contains the greatest concentration of cropland in the County. The towns within this valley alone support more corn and soybean acreage than the rest of the County combined. The western portions of Knowlton, White, Harmony, Lopatcong and Pohatcong Townships, as well as Belvidere and Phillipsburg, comprise the Delaware River Valley, which supports a second large concentration of cropland in the County. The Pequest Valley in Allamuchy, Independence, and Liberty Townships is known as the muck lands, and supports a majority of the County’s sod farms and other nursery crops. *(2004 Warren County Farmland Assessment)*³

Pastured lands are common throughout Warren County, but their largest concentrations are found in the Appalachian foothills that comprise the northern parts of the County. The northern Townships of Blairstown, Knowlton, Hope, and Frelinghuysen are the County’s leading municipalities in terms of pastured acreage. Combined, they contain more than half of Warren County’s pastured lands. *(2004 Warren County Farmland Assessment)*

Woodland managed farms are most commonly found near the natural areas and mountainous regions in Warren County. One significant belt of wooded farmland extends from the Kittatinny Ridgeline and the Delaware Water Gap National Recreation Area on the County’s northern border. It encompasses farms in parts of Knowlton, Blairstown, Hardwick, and Frelinghuysen Townships. The Highlands Ridgeline, which incorporates a number of individual mountains, is also associated with wooded farmland areas. Allamuchy Mountain borders farms in Allamuchy and Independence Townships; the Upper Pohatcong Mountain adjoins farms in Mansfield Township; Jenny Jump Mountain is near farms in Hope, Liberty, and northern White Townships; and Scott’s Mountain has farms in Oxford, Harmony, and southern White Townships. *(2007 Warren County Tax Assessment data and Crop Data Charts below)*



Crop Data by Warren County Municipality for 2007 Tax Year

Municipality	Cropland Harvested Acreage	Cropland Pasture Acreage	Permanent Pasture Acreage	Woodland Acreage	Equine	Total Acreage
Allamuchy Twp	2,271	95	541	1,264	80	4,251
Alpha Boro	308	18	14	0	0	340
Belvidere Town	24	0	0	8	0	32
Blairstown Twp	2,423	276	925	4,398	60	8,082
Franklin Twp	6,558	463	1,095	3,071	44	11,231
Frelinghuysen Twp	2,931	846	1,662	4,242	246	9,927
Greenwich Twp	2,873	63	284	450	46	3,716
Hackettstown Town	0	0	0	0	0	0
Hardwick Twp	1,087	333	504	4,331	15	6,270
Harmony Twp	4,496	330	551	1,885	11	7,273
Hope Twp	2,136	394	1,443	2,703	59	6,735
Independence Twp	2,484	253	486	3,997	31	7,251
Knowlton Twp	3,229	493	1,232	1,507	173	6,634
Liberty Twp	930	17	349	1,791	35	3,122
Lopatcong Twp	827	21	123	325	9	1,305
Mansfield Twp	3,792	254	928	4,363	156	9,493
Oxford Twp	196	35	134	557	0	922
Phillipsburg Town	57	0	0	0	0	57
Pohatcong Twp	3,555	155	520	1,255	17	5,502
Washington Boro	0	0	3	63	0	66
Washington Twp	2,792	296	463	1,148	58	4,757
White Twp	4,249	405	510	3,376	14	8,554
Total Acreage by Category	47,218	4,747	11,767	40,734	1,054	105,520

Source: Warren County Tax Assessor Office, 2007

Soils

More than one hundred individual soil types are found throughout Warren County. Soil types are determined by the parent bedrock material from which they were formed, drainage characteristics, and the steepness of the slopes on which they are found. Soil types are also grouped into larger categories called soil series, based on their parent material, chemical composition, and profile. Soil series are themselves grouped into broader categories called soil associations. There are twenty-eight soil series that comprise eleven soil associations in Warren County. A more complete listing of the County's soils can be found at the end of this chapter (*NRCS Soil Data Mart website*)⁴.

The origin of Warren County's soils makes them generally well-suited for agriculture, especially field crops. Soil fertility, water-holding capacity, and permeability are generally moderate to high, which means the soils are able to support a wide variety of crops. Localized conditions determine whether these soils qualify as prime, statewide, or unique

agricultural soils. For instance, soils located in areas that are frequently flooded are less able to hold nutrients or support the root systems of some crops, making them less suitable for agricultural production than soils in drier locations. Soils on steep slopes are more easily eroded and less productive than soils on flat ground. Depth to bedrock or fragipan may limit the root systems of certain crops, making deeper soils more appropriate for intensive field crops, such as vegetables, and shallower soils more appropriate for less intensive uses, such as pastures.

The Natural Resource Conservation Service (NRCS) classifies certain soils as prime, statewide, important, or unique based on their agricultural productivity. *Prime farmland soil* has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops, and is capable producing sustained high yields when managed with acceptable farming methods. *Prime farmland soil* is not easily eroded or saturated with water for long periods, and it floods infrequently. Although *farmland soils of statewide importance* produce high crop yields, they are not capable of the same productivity as prime farmland soils. *Unique soils* exhibit specific qualities that favor production of specialized crops (*NJ NRCS website*)⁵. *Soils of local importance* are not mapped or designated by NRCS, but can support field crops, hay, livestock pasturing, and some fruits and vegetables. These soils are significant in Warren County.

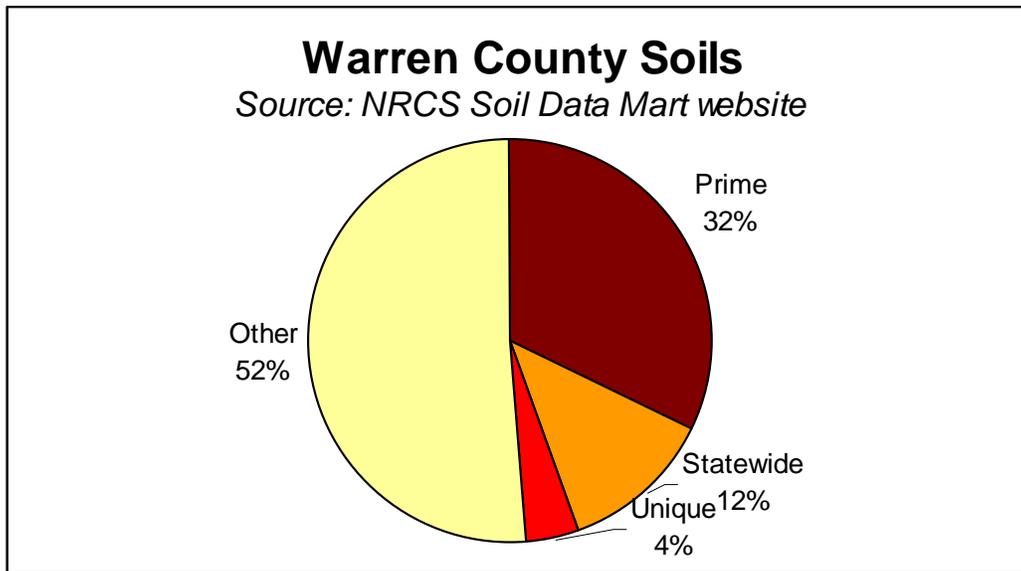
The *NRCS Soil Data Mart website* reports that 113,630 acres (49%) of the County are covered by soils of prime, statewide, or unique importance (see *Soils* chart and *Agricultural Soils* table below). The *Warren County Agricultural Soils Categories Map*⁶ shows that these soils are concentrated in the Musconetcong, Delaware, and Pequest Valleys with additional pockets along the Paulins Kill in Blirstown and Knowlton Townships and Beaver Brook in Hope and White Townships. Agricultural soils are present but more scattered across the Highlands Ridgeline and the foothills of northern Warren County.

The County's river valleys contain most of its cropland, where soils of the Washington-Bartley Association are the most common. These soils tend to rest on flat slopes and are loamy and well-drained, making them well suited to crop agriculture. In the northern parts of the County, glacial outwash soils of the Pope and Hazen-Hero-Fredon Associations support the County's largest concentration of vegetable acreage. These soils are found on flat to moderately sloping ground along the Paulins Kill, Pequest, Delaware, and Musconetcong Rivers in Warren County. Additionally, soils formed from organic deposits – including the Carlisle-Adrian and Wayland-Middlebury Associations – support the sod and nursery farms near Great Meadows. These soils are often very wet and poorly drained, but are usually found on flat slopes and contain significant amounts of organic material.

Prime Soils of Warren County			
ABBR	SOIL DESCRIPTION	ACRES	% OF COUNTY
AnB2	Annandale gravelly loam, 3 to 8 percent slopes, eroded	2,940	1.3%
BaA	Bartley loam, 0 to 3 percent slopes	1,190	0.5%
BaB	Bartley loam, 3 to 8 percent slopes	6,480	2.8%
BfB	Bath gravelly loam, 3 to 8 percent slopes	5,441	2.3%
CbB	Califon gravelly loam, 3 to 8 percent slopes	3,240	1.4%
EdB	Edneyville gravelly loam, 3 to 8 percent slopes	4,960	2.1%
HbA	Hazen loam, 0 to 3 percent slopes	1,320	0.6%
HbB	Hazen loam, 3 to 8 percent slopes	270	0.1%
HfA	Hazen gravelly loam, 0 to 3 percent slopes	3,970	1.7%
HfB	Hazen gravelly loam, 3 to 8 percent slopes	4,310	1.9%
HkA	Hero loam, 0 to 3 percent slopes	810	0.3%
HkB	Hero loam, 3 to 8 percent slopes	1,000	0.4%
HrA	Hero gravelly loam, 0 to 3 percent slopes	770	0.3%
HrB	Hero gravelly loam, 3 to 8 percent slopes	1,300	0.6%
Md	Middlebury loam	1,580	0.7%
PaA	Palmyra gravelly fine sandy loam, 0 to 3 percent slopes	420	0.2%
PaB	Palmyra gravelly fine sandy loam, 3 to 8 percent slopes	530	0.2%
PnA	Pope fine sandy loam, high bottom, 0 to 3 percent slope s	2,040	0.9%
PnB	Pope fine sandy loam, high bottom, 3 to 8 percent slope s	1,060	0.5%
PoA	Pope gravelly fine sandy loam, high bottom, 0 to 3 perc ent slopes	810	0.3%
PoB	Pope gravelly fine sandy loam, high bottom, 3 to 8 perc ent slopes	3,050	1.3%
SuB	Swartwood gravelly loam, 3 to 8 percent slopes	480	0.2%
WaA	Washington loam, 0 to 3 percent slopes	2,850	1.2%
WaB	Washington loam, 3 to 8 percent slopes	22,440	9.7%
WgB	Washington gravelly loam, 3 to 8 percent slopes	760	0.3%
WmA	Wassaic gravelly loam, 0 to 3 percent slopes	480	0.2%
WmB	Wassaic gravelly loam, 3 to 8 percent slopes	960	0.4%
	TOTAL PRIME SOILS	75,461	32.4%

Statewide Important Soils of Warren County			
ABBR	SOIL DESCRIPTION	ACRES	% OF COUNTY
AnC2	Annandale gravelly loam, 8 to 15 percent slopes, eroded	4,869	2.1%
BbC	Bartley gravelly loam, 8 to 15 percent slopes	1,900	0.8%
BdB	Bartley stony loam, 3 to 8 percent slopes	310	0.1%
BfC	Bath gravelly loam, 8 to 15 percent slopes	4,440	1.9%
CbC2	Califon gravelly loam, 8 to 15 percent slopes, eroded	1,720	0.7%
EdC	Edneyville gravelly loam, 8 to 15 percent slopes	2,990	1.3%
HbC	Hazen loam, 8 to 15 percent slopes	470	0.2%
HcB	Hazen cobbly loam, 3 to 8 percent slopes	870	0.4%
HfC	Hazen gravelly loam, 8 to 15 percent slopes	4,040	1.7%
VeA	Venango silt loam, 0 to 3 percent slopes	280	0.1%
VnB	Venango gravelly loam, 3 to 8 percent slopes	1,360	0.6%
VnC	Venango gravelly loam, 8 to 15 percent slopes	390	0.2%
WaC2	Washington loam, 8 to 15 percent slopes, eroded	4,910	2.1%
	TOTAL STATEWIDE IMPORTANT SOILS	28,549	12.2%

Unique Soils of Warren County			
ABBR	SOIL DESCRIPTION	ACRES	% OF COUNTY
WgC	Washington gravelly loam, 8 to 15 percent slopes	1,400	0.6%
Ad	Adrian muck	1,650	0.7%
Ck	Carlisle muck	3,550	1.5%
WOC	Wassaic-Rock outcrop complex, 8 to 15 percent slopes	3,020	1.3%
TOTAL UNIQUE SOILS		9,620	4.1%

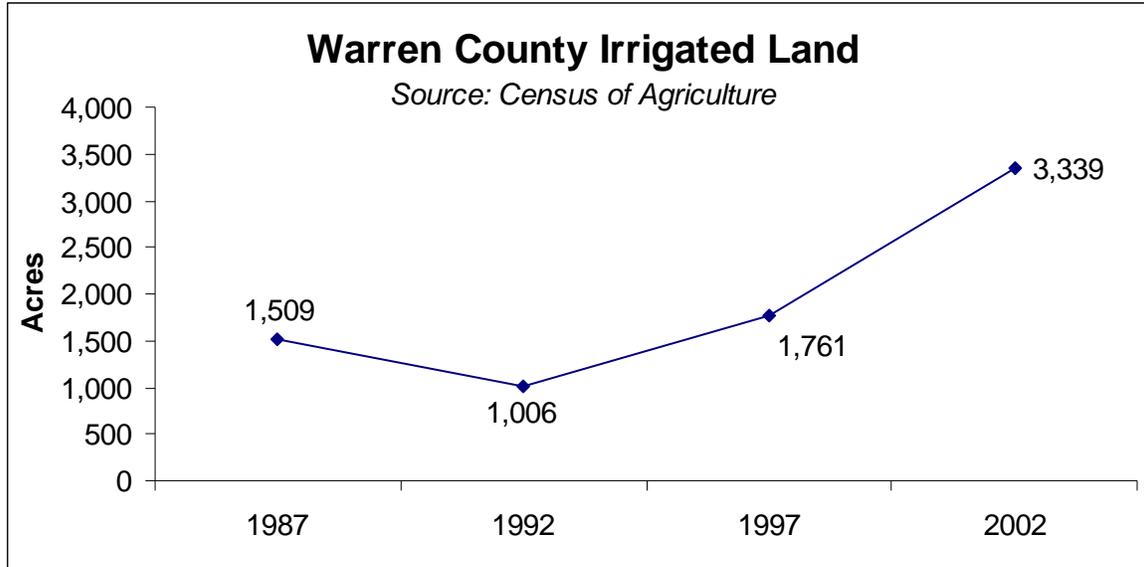


Irrigated Land & Water Sources

Groundwater provides the supply of water for irrigation in Warren County. Groundwater sources are generally preferred to surface waters because they contain less sediment and particulates that may clog irrigation pipes and damage crops. Warren County’s productive groundwater aquifers – that yield more than 100 gallons per minute – are found in areas underlain by Jacksonburg Limestone, Kittatinny Supergroup and Hardyston Quartzite. These bedrock species are roughly located beneath the County’s existing crop lands in the Musconetcong, Delaware, Pequest, and Paulins Kill Valleys. (*1999 Warren County Open Space Plan*)⁷

Warren County’s farmers irrigated 3,339 acres of land in 2002. This represents roughly 4% of the County’s 78,042 total acres of farmland. (*2002 Census of Agriculture*) The primary crops of Warren County – corn, soybeans, and hay – have little to no need for irrigation. However, the irrigated acreage in Warren County has more than tripled since 1992 (see *Irrigated Land* chart below), and more than two times as many farms utilize irrigation (from 45 in 1987 to 98 in 2002). This trend is partly attributable to the increasing number of water-intensive agricultural operations, such as nurseries and vegetable farms, which have taken root in the County. Additionally, the 2002 Census year was abnormally

dry, which may account for some of the irrigation increases that were observed. Despite recent increases in the demand for irrigation, there is little concern over the availability of groundwater for irrigation in the future.

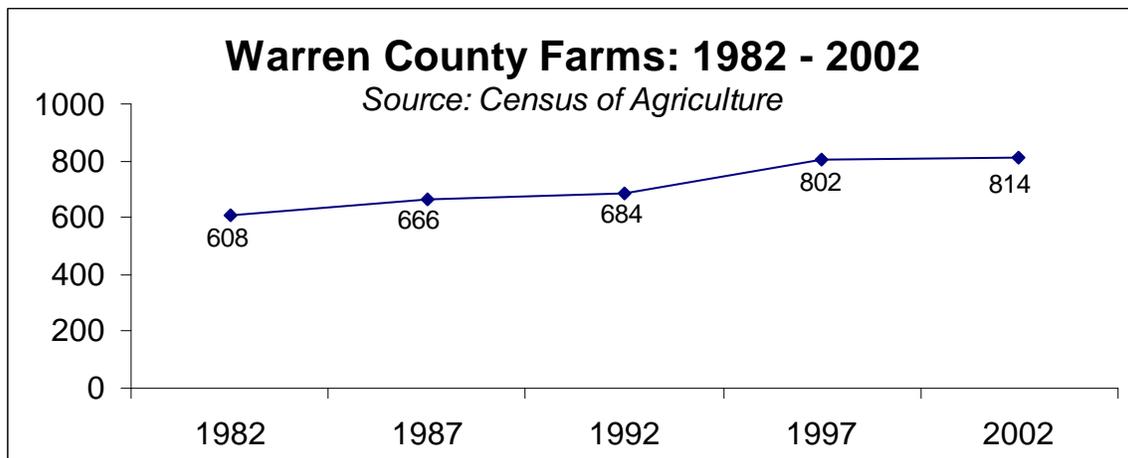
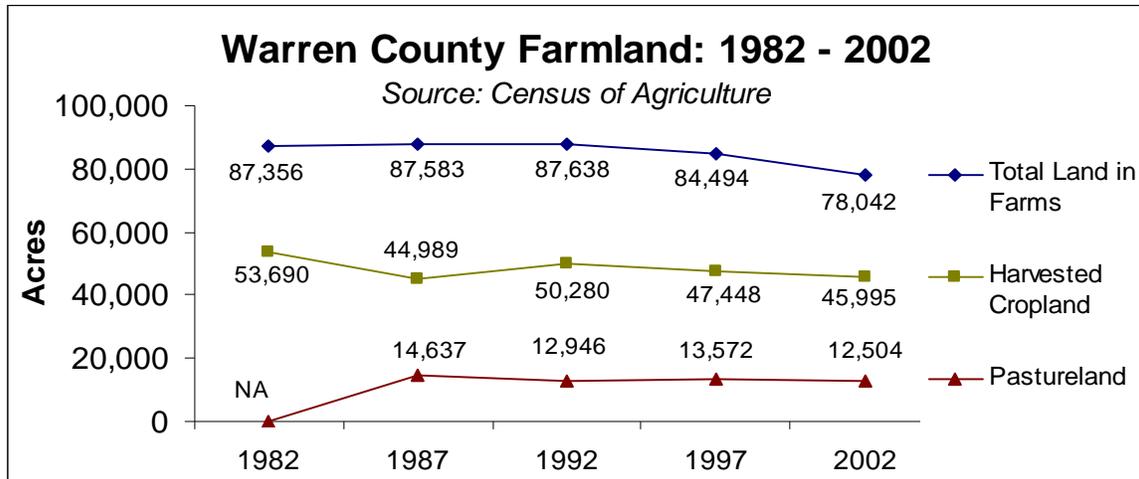


As presented in the draft *Highlands Regional Master Plan*, groundwater availability for agriculture is being allocated based on Land Use Capability Zone and the net water availability of the subwatershed. In the Conservation Zone, where the majority of agriculture is located in Warren County, 10% of available groundwater is being specifically reserved for agriculture.

Farmland Trends & Statistics

The size of the agricultural land base in Warren County has declined in recent years. Between 1992 and 2002, Warren County lost nearly 10,000 acres of farmland, corresponding to an 11% drop in overall acreage. The amount of land in agricultural production occupied 78,042 acres in 2002 with 45,995 acres in harvested cropland and 12,504 acres in pastures. (see *Farmland Acreage* charts on following pages) Declines in harvested cropland and pastureland have been less severe than that of total farmland, with croplands and pasturelands declining 8.5% and 3.5%, respectively, since 1992.

The largest decreases in overall farmland can be attributed to “other” agricultural land uses where losses in categories such as non-pastured agricultural woodlands (20% drop since 1997) and agricultural support structures such as houses, roads, ponds, and other lands (15% drop since 1997) account for significant percentages of the total farmland decline. (2002 *Census of Agriculture*) The drop in non-pastured agricultural woodlands can be partially explained by farmers using their non-productive acreage for other purposes or selling them to competing land uses. The decline in support structure acreage is consistent with the trend of farmers renting land and no longer utilizing on-site barns and homes.

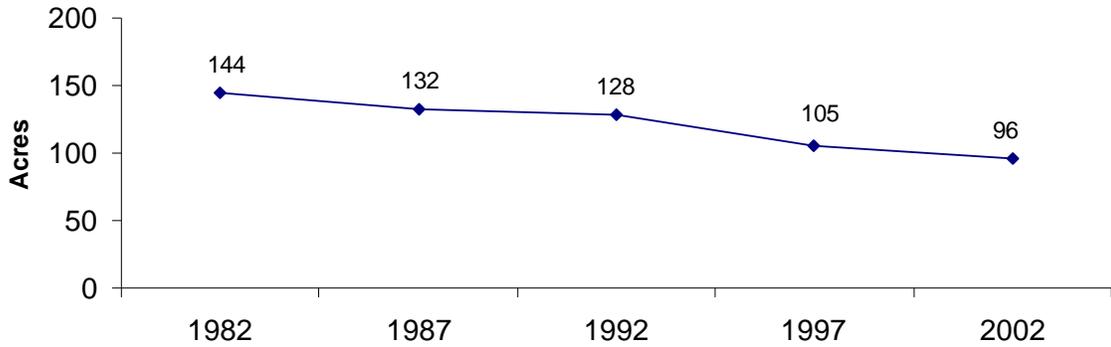


Falling farmland acreage has not prevented new farmers from entering the industry. Warren County has added over 200 farms since 1982, bringing the total number of farms in the County from 608 to 814 (see *Farms* chart above). At the same time, the acreage of farmland available to farmers has declined. (see *Farmland* chart above) The combination of these trends has caused the average size of farms in Warren County to drop dramatically (see *Average Farm Size* chart below).

The median size of Warren County farms was 31 acres in 2002, down from 37 acres in 1997. This indicates that there are many small farms and farm parcels (less than 50 acres) in the County, and that their numbers are rising. Additionally, the acreage within medium size farms (50 to 499 acres) is decreasing, indicating that many of these farms are breaking up into smaller operations (see *Farmland by Farm Size* chart below). (*2002 Census of Agriculture*)

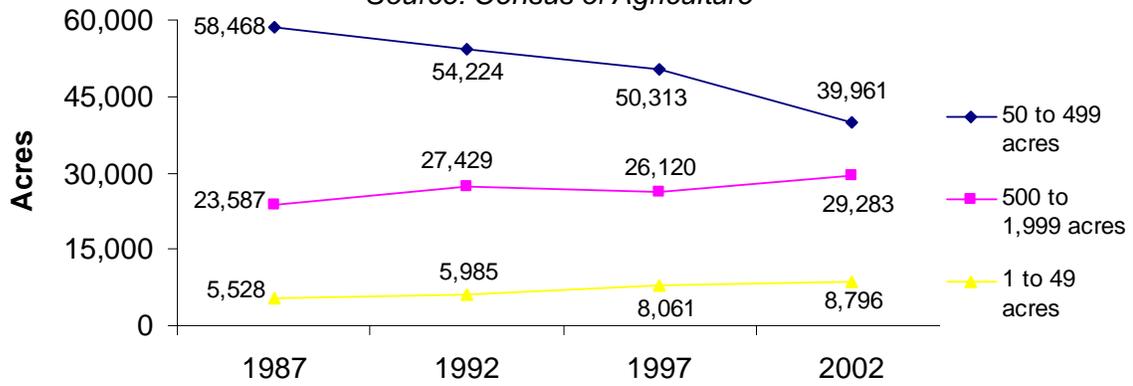
Warren County Average Farm Size: 1982 - 2002

Source: Census of Agriculture



Warren County Farmland by Farm Size

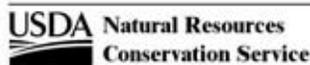
Source: Census of Agriculture



Acreage and Proportionate Extent of the Soils

Warren County, New Jersey

Map symbol	Map unit name	Acres	Percent
Ad	Adrian muck	1,650	0.7
AnB2	Annandale gravelly loam, 3 to 8 percent slopes, eroded	2,940	1.3
AnC2	Annandale gravelly loam, 8 to 15 percent slopes, eroded	4,869	2.1
AnD2	Annandale gravelly loam, 15 to 25 percent slopes, erode d	2,660	1.1
AsB	Annandale very stony loam, 3 to 8 percent slopes	370	0.2
AsC	Annandale very stony loam, 8 to 15 percent slopes	1,060	0.5
AsD	Annandale very stony loam, 15 to 25 percent slopes	830	0.4
BaA	Bartley loam, 0 to 3 percent slopes	1,190	0.5
BaB	Bartley loam, 3 to 8 percent slopes	6,480	2.8
BbC	Bartley gravelly loam, 8 to 15 percent slopes	1,900	0.8
BdB	Bartley stony loam, 3 to 8 percent slopes	310	0.1
BfB	Bath gravelly loam, 3 to 8 percent slopes	5,441	2.3
BfC	Bath gravelly loam, 8 to 15 percent slopes	4,440	1.9
BfD	Bath gravelly loam, 15 to 25 percent slopes	1,850	0.8
BfE	Bath gravelly loam, 25 to 40 percent slopes	550	0.2
BgB	Bath very stony loam, 3 to 8 percent slopes	1,280	0.6
BgC	Bath very stony loam, 8 to 15 percent slopes	1,070	0.5
CbB	Califon gravelly loam, 3 to 8 percent slopes	3,240	1.4
CbC2	Califon gravelly loam, 8 to 15 percent slopes, eroded	1,720	0.7
CcB	Califon very stony loam, 3 to 8 percent slopes	570	0.2
CcC	Califon very stony loam, 8 to 15 percent slopes	400	0.2
Ck	Carlisle muck	3,550	1.5
CmA	Chippewa silt loam, 0 to 3 percent slopes	2,140	0.9
CmB	Chippewa silt loam, 3 to 8 percent slopes	610	0.3
CnA	Chippewa very stony silt loam, 0 to 3 percent slopes	930	0.4
CnB	Chippewa very stony silt loam, 3 to 8 percent slopes	730	0.3
CoA	Cokesbury loam, 0 to 3 percent slopes	560	0.2
CoB	Cokesbury loam, 3 to 8 percent slopes	920	0.4
CsB	Cokesbury very stony loam, 3 to 8 percent slopes	1,080	0.5
EdB	Edneyville gravelly loam, 3 to 8 percent slopes	4,960	2.1
EdC	Edneyville gravelly loam, 8 to 15 percent slopes	2,990	1.3
EeB	Edneyville extremely stony loam, 3 to 8 percent slopes	2,460	1.1
EeC	Edneyville extremely stony loam, 8 to 15 percent slopes	4,460	1.9
EPD	Edneyville-Parker-Rock outcrop association, steep	7,450	3.2
FrA	Fredon loam, 0 to 3 percent slopes	2,050	0.9
Ha	Halsey loam	1,540	0.7
HbA	Hazen loam, 0 to 3 percent slopes	1,320	0.6
HbB	Hazen loam, 3 to 8 percent slopes	270	0.1
HbC	Hazen loam, 8 to 15 percent slopes	470	0.2
HcB	Hazen cobbly loam, 3 to 8 percent slopes	870	0.4
HfA	Hazen gravelly loam, 0 to 3 percent slopes	3,970	1.7
HfB	Hazen gravelly loam, 3 to 8 percent slopes	4,310	1.9
HfC	Hazen gravelly loam, 8 to 15 percent slopes	4,040	1.7



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* See footnote at end of table.

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Acreage and Proportionate Extent of the Soils

Warren County, New Jersey

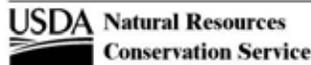
Map symbol	Map unit name	Acres	Percent
HfD	Hazen gravelly loam, 15 to 25 percent slopes	730	0.3
HfE	Hazen gravelly loam, 25 to 40 percent slopes	360	0.2
HkA	Hero loam, 0 to 3 percent slopes	810	0.3
HkB	Hero loam, 3 to 8 percent slopes	1,000	0.4
HrA	Hero gravelly loam, 0 to 3 percent slopes	770	0.3
HrB	Hero gravelly loam, 3 to 8 percent slopes	1,300	0.6
LyA	Lyons silt loam, 0 to 4 percent slopes	1,440	0.6
LzB	Lyons very stony silt loam, 3 to 8 percent slopes	460	0.2
MD	Mine dump	340	0.1
Md	Middlebury loam	1,580	0.7
NaC	Nassau rocky silt loam, 8 to 15 percent slopes	4,890	2.1
NbB	Nassau shaly silt loam, 3 to 8 percent slopes	2,740	1.2
NfD	Nassau-Rock outcrop complex, 15 to 25 percent slopes	5,750	2.5
NfE	Nassau-Rock outcrop complex, 25 to 45 percent slopes	3,140	1.4
ORD	Oquaga-Swartswood-Rock outcrop association, steep	720	0.3
PaA	Palmyra gravelly fine sandy loam, 0 to 3 percent slopes	420	0.2
PaB	Palmyra gravelly fine sandy loam, 3 to 8 percent slopes	530	0.2
PbD	Parker gravelly sandy loam, 15 to 25 percent slopes	1,530	0.7
PbE	Parker gravelly sandy loam, 25 to 40 percent slopes	1,090	0.5
Pc	Pits, muck	580	0.3
Pd	Pits, sand and gravel	380	0.2
PnA	Pope fine sandy loam, high bottom, 0 to 3 percent slopes	2,040	0.9
PnB	Pope fine sandy loam, high bottom, 3 to 8 percent slopes	1,060	0.5
PoA	Pope gravelly fine sandy loam, high bottom, 0 to 3 percent slopes	810	0.3
PoB	Pope gravelly fine sandy loam, high bottom, 3 to 8 percent slopes	3,050	1.3
QU	Quarry	110	*
RcD	Rockaway very stony loam, 8 to 25 percent slopes	920	0.4
ROF	Rock outcrop-Oquaga association, very steep	6,900	3.0
RPF	Rock outcrop-Parker-Edneyville association, very steep	12,600	5.4
RRE	Rock outcrop-Rockaway-Parker association, very steep	720	0.3
RWD	Rock outcrop-Wassaic complex, 15 to 25 percent slopes	2,170	0.9
RWF	Rock outcrop-Wassaic complex, 25 to 45 percent slopes	3,550	1.5
StC	Steinsburg fine sandy loam, 8 to 15 percent slopes	870	0.4
SuB	Swartswood gravelly loam, 3 to 8 percent slopes	480	0.2
SvB	Swartswood very stony loam, 3 to 8 percent slopes	2,620	1.1
SvC	Swartswood very stony loam, 8 to 15 percent slopes	2,220	1.0
SvD	Swartswood very stony loam, 15 to 25 percent slopes	2,230	1.0
SxC	Swartswood-Oquaga extremely stony loams, 8 to 15 percent slopes	2,470	1.1
VeA	Venango silt loam, 0 to 3 percent slopes	280	0.1
VnB	Venango gravelly loam, 3 to 8 percent slopes	1,360	0.6
VnC	Venango gravelly loam, 8 to 15 percent slopes	390	0.2
VsB	Venango very stony loam, 3 to 8 percent slopes	520	0.2
W	Water (less than 40 acres)	1,320	0.6

Acreage and Proportionate Extent of the Soils

Warren County, New Jersey

Map symbol	Map unit name	Acres	Percent
WaA	Washington loam, 0 to 3 percent slopes	2,850	1.2
WaB	Washington loam, 3 to 8 percent slopes	22,440	9.7
WaC2	Washington loam, 8 to 15 percent slopes, eroded	4,910	2.1
WaD2	Washington loam, 15 to 25 percent slopes, eroded	1,630	0.7
WATER	Water (greater than 40 acres)	2,100	0.9
WgB	Washington gravelly loam, 3 to 8 percent slopes	760	0.3
WgC	Washington gravelly loam, 8 to 15 percent slopes	1,400	0.6
WgD	Washington gravelly loam, 15 to 25 percent slopes	1,260	0.5
WkB	Washington very stony loam, 3 to 8 percent slopes	490	0.2
WkC	Washington very stony loam, 8 to 15 percent slopes	950	0.4
WkD	Washington very stony loam, 15 to 25 percent slopes	500	0.2
WkE	Washington very stony loam, 25 to 40 percent slopes	920	0.4
WmA	Wassaic gravelly loam, 0 to 3 percent slopes	480	0.2
WmB	Wassaic gravelly loam, 3 to 8 percent slopes	960	0.4
WnC	Wassaic rocky gravelly loam, 8 to 15 percent slopes	1,260	0.5
WnD	Wassaic rocky gravelly loam, 15 to 25 percent slopes	470	0.2
WOB	Wassaic-Rock outcrop complex, 3 to 8 percent slopes	1,400	0.6
WOC	Wassaic-Rock outcrop complex, 8 to 15 percent slopes	3,020	1.3
WOD	Wassaic-Rock outcrop complex, 15 to 25 percent slopes	1,060	0.5
Wp	Wayland silt loam	4,100	1.8
WvB	Wurtsboro extremely stony loam, 3 to 8 percent slopes	2,560	1.1
WvC	Wurtsboro extremely stony loam, 8 to 15 percent slopes	430	0.2
Total		231,700	100.0

* Less than 0.1 percent.



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¹ United States Department of Agriculture: National Agricultural Statistic Service, 2002 Census of Agriculture. www.nass.usda.gov/Census_of_Agriculture/index.asp. Accessed June 2007.

² Warren County Tax Assessors Office. *Crop Data by Warren County Municipality for 2007 Tax Year*

³ New Jersey State Agriculture Development Committee. *Warren County Farmland Assessment 2004*.

⁴ Natural Resource Conservation Service. "Soil Data Mart". <http://soildatamart.nrcs.usda.gov/>. Accessed 17 September 2007.

⁵ New Jersey Office of the Natural Resource Conservation Service website. "Soils" <http://www.nj.nrcs.usda.gov/technical/soils/>. Accessed 16 September 2007.

⁶ The NRCS has recently completed the update to Warren County's soil survey. This Plan references the soil survey information available as of September 2007. Future updates to this Plan will reference the updated soil survey information.

⁷ Warren County Planning Department. *1999 Warren County Open Space Plan*.

CHAPTER 2: AGRICULTURAL INDUSTRY IN WARREN COUNTY



The large and fertile land base of Warren County supports a thriving farming industry that is among New Jersey's most productive agricultural areas. Warren has more cattle and calves than any other county in the State, and is among the top three in both milk cows and milk production. The County is also a leader in field crops. It is second behind Salem County in corn for grain production and third in hay, soybeans, and apples (*2002 Census of Agriculture*)¹.

The agricultural industry provides stability for the local economy of Warren County. During 2002, agriculture accounted for more than \$39.7 million in sales despite severe drought conditions. (*2002 Census of Agriculture*) In addition to its direct sales, the agriculture industry supports ancillary businesses, such as equipment suppliers and livestock veterinarians, whose sales are not captured within agricultural figures, but depend upon agriculture to create the necessary demand for their services. Farms also provide indirect support to the local economy. For example, they offer seasonal employment opportunities for young residents and seasonal workers who, in turn, patronize local stores and businesses. The influence of these agricultural linkages on Warren County's economy is unmistakable.

Agriculture also provides a greater economic benefit to the local community than other kinds of land uses. Contrary to residential neighborhoods and commercial districts, farms require little, if any, municipal services. In fact, farms often provide important benefits, such as groundwater recharge and storm water control, which local governments might otherwise have to supply. Additionally, farms generate a positive cash flow by selling their products to buyers outside the County. Local farmers spend the revenue earned from these sales locally, which supports the County's economy. Contrarily, retail stores and other non-agricultural firms that cater to local residents often send their revenues out of the County. In this way, agricultural production is preferable to other kinds of business activities because it promotes a more stable and independent local economy.

Statistical Information

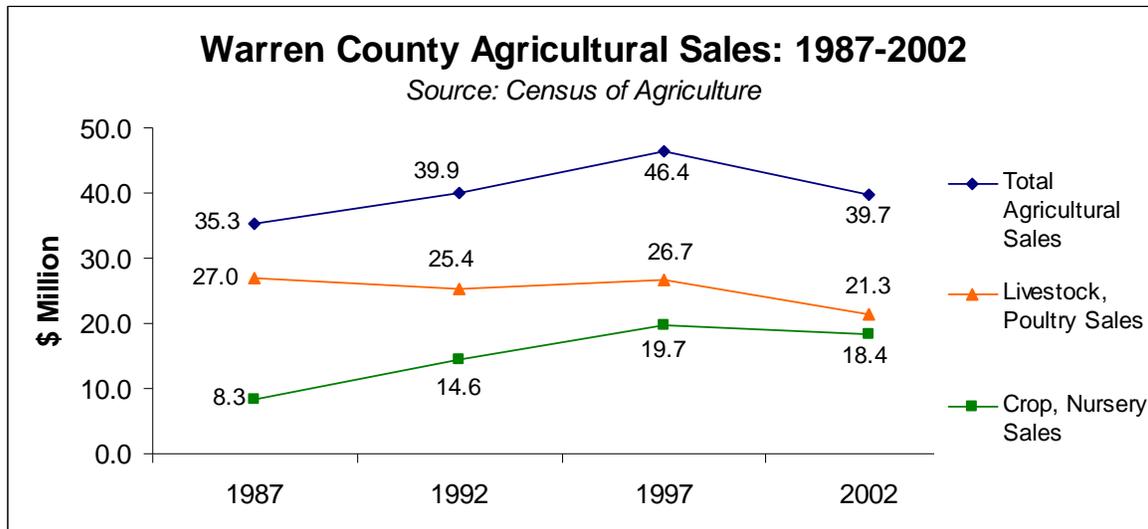
Agricultural production and market value trends were calculated using data from the United States Department of Agriculture's National Agriculture Statistics Service. (*NASS*)² The agricultural yields for many products have been tabulated annually since 1953, while the yields of other products have been recorded only in more recent years. Historical pricing information for some of these products is also available. These historical trends are

supplemented by data from the annual reports of the New Jersey Department of Agriculture. (*2006 Annual Report of the New Jersey Department of Agriculture*)³

Trends in the market value of the products produced by Warren County’s agricultural industry are more difficult to determine. Overall county-level market values are not compiled annually, but rather reported every five years as part of the National Census of Agriculture. The next Census report will be available at the beginning of 2008. Further obscuring this trend is the additional susceptibility to sampling error that occurs with less frequent data observations. For example, the last Census report was taken in 2002 – a year in which New Jersey experienced severe drought conditions that greatly reduced the agricultural output of many crops. This variability has been considered when interpreting the market value data.

Agricultural Production and Market Trends

The Census of Agriculture separates agricultural activities into two categories: “livestock, poultry and their products” and “crops, including nursery and greenhouse”. “Livestock, poultry and their products” from Warren County produced \$21.3 million in sales during 2002, down 25% from \$26.7 million in 1997. Sales from the “crops, including nursery and greenhouse” category were down 7% from \$19.7 million in 1997 to \$18.4 million in 2002. Similar declines were seen across New Jersey due to the severe drought conditions that were observed during the 2002 Census year.

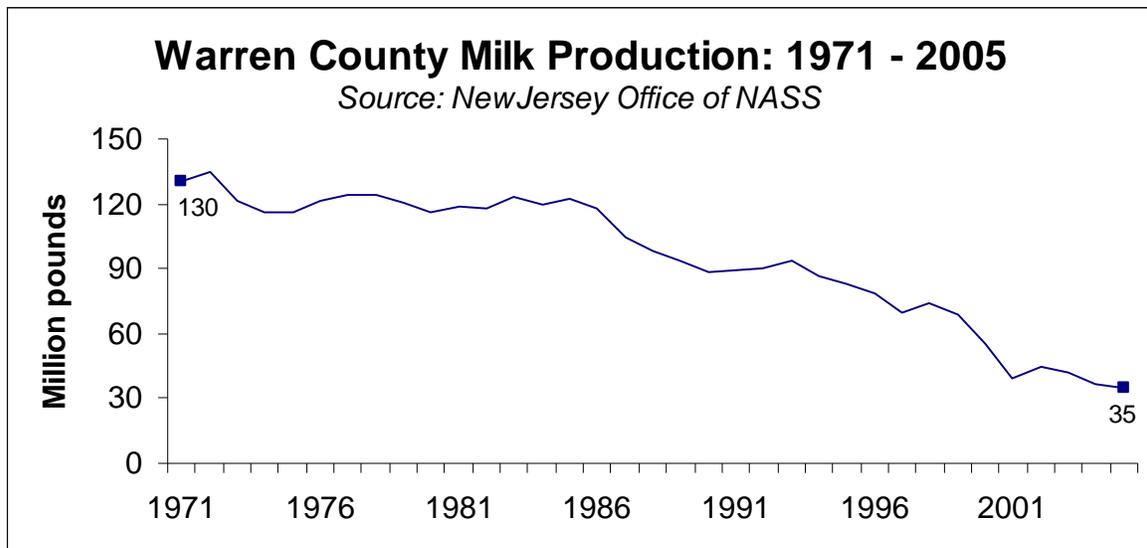


Livestock and Poultry Products

The largest agricultural sector in Warren County involved the sale of products from livestock including dairy and beef cows. The livestock industry in Warren County is important at both the state and local levels. There are more livestock farms raising more livestock in Warren County than anywhere else in New Jersey. The livestock industry also provides the demand for much of the County’s field crop production. Much of the grain and hay that is produced in Warren County is sold to local dairy farmers to feed their herds.

Other dairy farmers minimize feed costs by growing their own grain, which is not reported in the Census sales figures. Consequently, the viability and continued growth of Warren County's livestock farms is fundamentally important to the County's agriculture industry as a whole.

Dairy has been the dominant subsector in Warren County throughout its history. Unfortunately, sales of dairy products declined from over \$12.6 million in 1987 to just over \$9.0 million in 1997⁴. This corresponds to a similar decrease among the number of farms that sold dairy products within the County (from 118 in 1987 to 45 in 2002). Milk production trends show that the decline in Warren County's dairy industry has been occurring gradually for some time. The County's best year on record in terms of milk production was 1972 when it produced over 135 million pounds, while its worst year on record was 2005 when it produced less than 35 million pounds (see *Milk Production* chart).

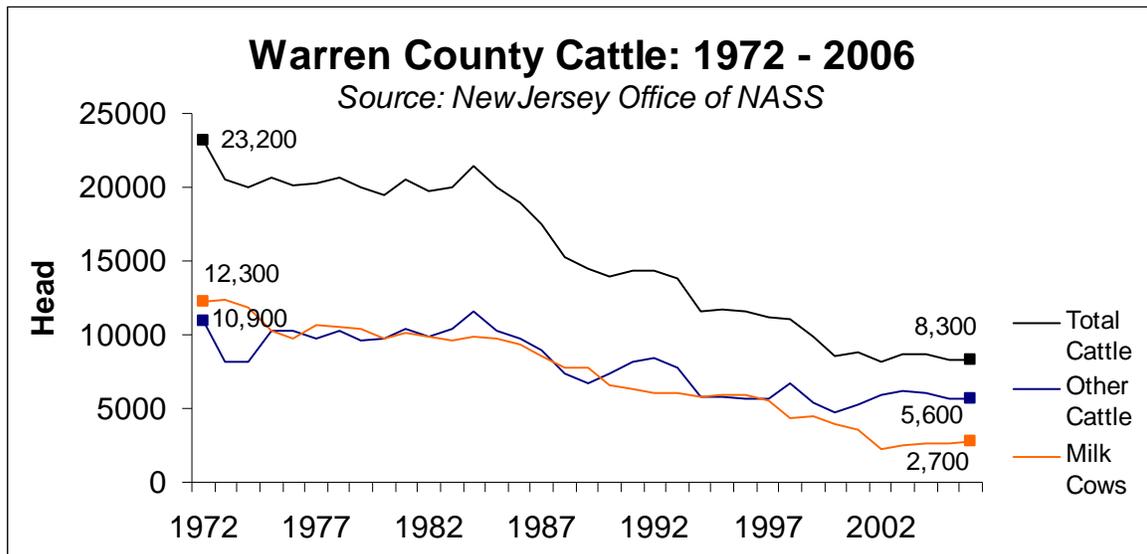


Decreasing dairy production has been largely influenced by unfavorable market conditions. A combination of high input costs, historically low milk prices and weather related losses in 2005 created a scenario that the New Jersey Department of Agriculture likened to “a perfect storm”. (*2006 Annual Report of the New Jersey Department of Agriculture*) Among the most significant input costs to Warren County dairy farmers are high land prices and property taxes. Dairy farms require more extensive plots of land than most agriculture operations, and increasing land prices have made alternative uses of dairy land economically attractive to many farmers.

Erosion of the local supporting infrastructure has impacted dairy producers as well. After the New York demand for Warren County dairy products dropped during the 1960's, many dairy support businesses relocated or closed. Consequently, there are no remaining creameries in Warren County, which forces dairy producers to ship their products over considerable distances to be processed. There is also a need for large animal veterinarians in the region. The expenses incurred by dairy farmers due to inadequate support services have influenced those that wish to remain in agriculture to transition their operations

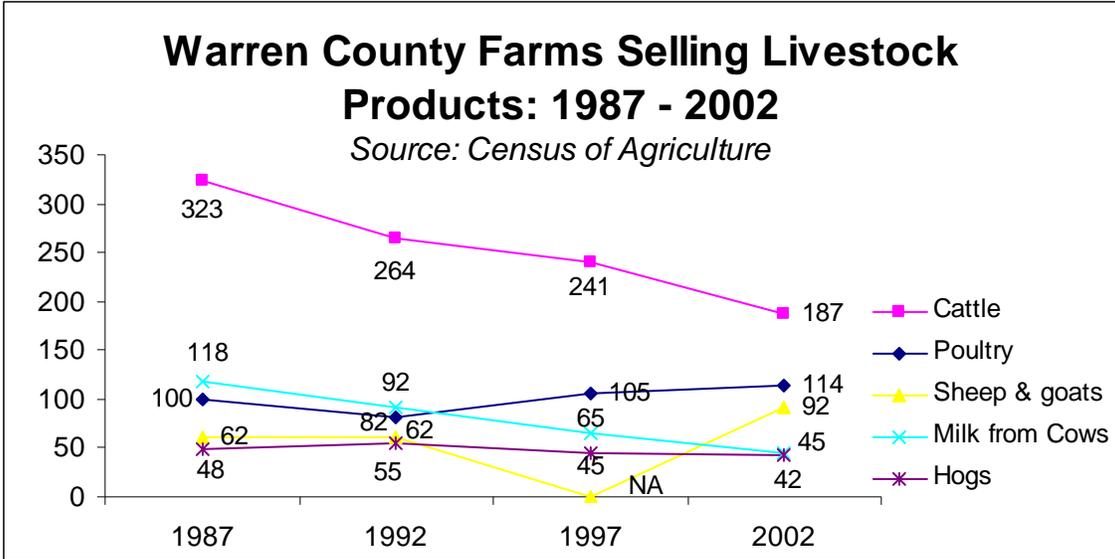
towards less infrastructure-intensive practices, such as corn or wheat production. These factors present a significant risk to the continued success of dairy farms in Warren County.

Non-dairy cattle operations comprise a significant portion of the County’s livestock activity as well. The number of non-dairy cattle in Warren County (5,600) actually exceeded the number of dairy cattle (2,700) during 2006, and more farms engage in the sale of cattle (187 in 2002) than any other livestock-related activity. Data on the sales of beef cattle and their products were last recorded in 1997, when there were 5,700 animals that yielded \$1.25 million⁵. In 2006, there were roughly the same number of non-dairy cattle in Warren County (5,600), and sales were probably comparable to 1997 levels. Therefore, non-dairy cattle sales are likely comparable to the 1997 figure today⁶. The comparatively low land intensity of non-dairy cattle operations has made this a more attractive option for some dairy farmers in Warren County. If land values continue to increase, it is likely that more dairy farmers will begin to utilize their land in other ways and that new livestock farmers will run non-dairy cattle.



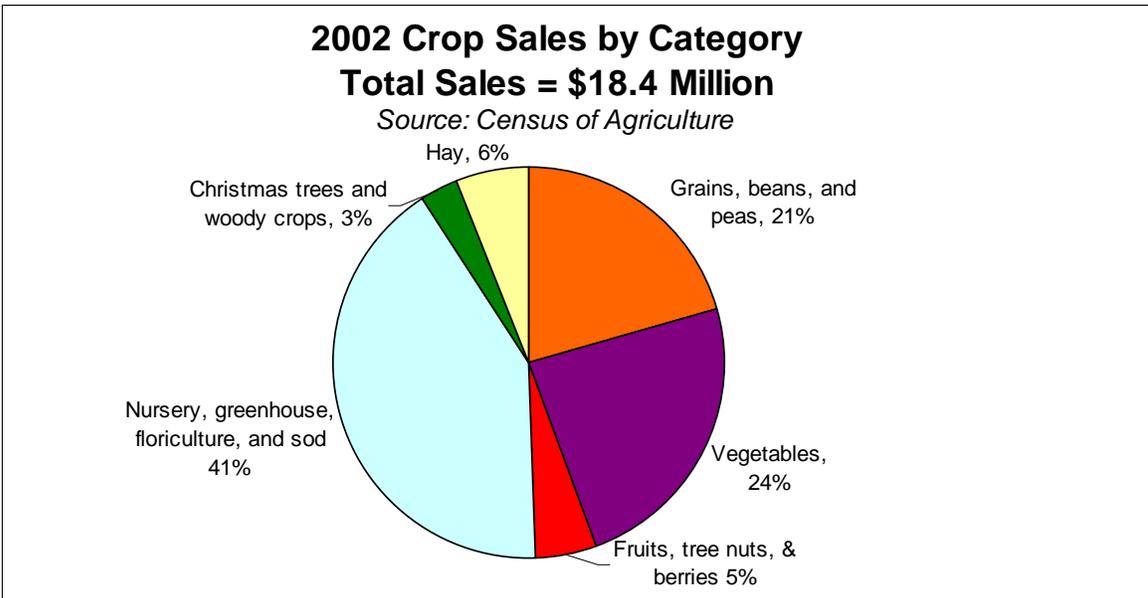
Along with dairy and cattle farming, poultry is another large livestock industry in Warren County. This type of farming includes egg production, meat chickens, and other birds including turkeys and ducks. While the vast majority of eggs are produced by one very large operation in Franklin Township (with more than 100,000 animals), there are 113 smaller farms (less than 100 animals) that supplement their incomes through egg sales. Similarly, most farms that sell meat chickens and other birds are relatively small-scale averaging 68 birds sold annually per farm.

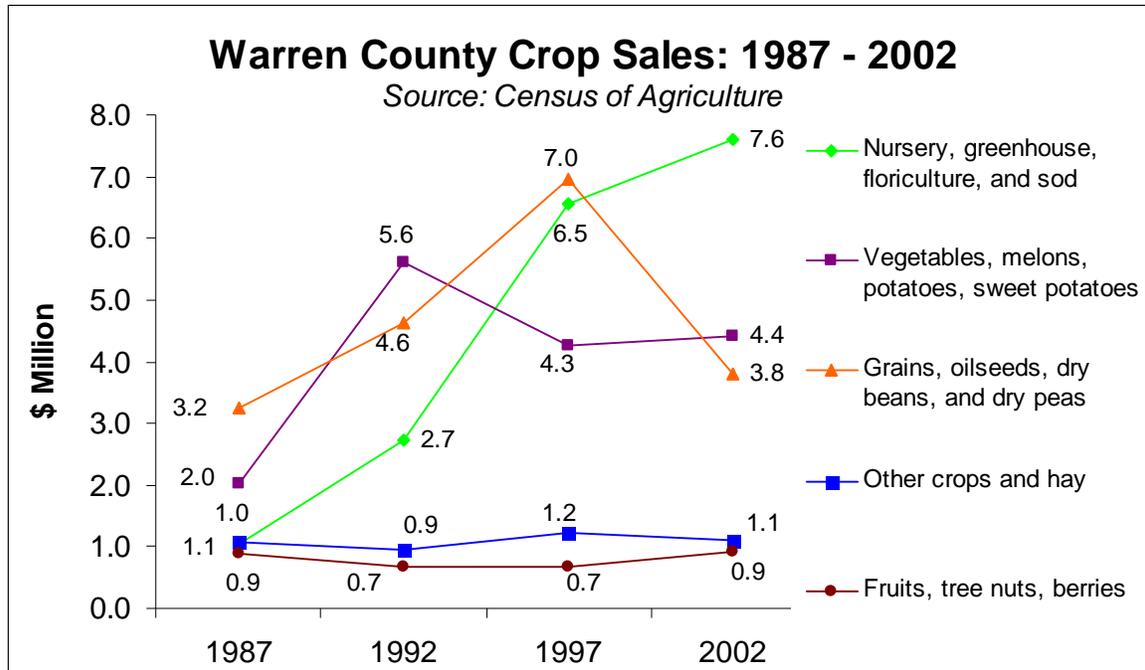
Warren County also supports a number of hog and sheep farms. There were 692 hogs on 44 farms in 2002. These operations earned roughly \$60,000 in the sale of their hogs. There have been no notable fluctuations in this trend over time. Contrarily, the sheep industry in the County has exhibited an upward trend in the number of sheep (1,921 in 2002 from 1,186 in 1997), the farms raising sheep, and the sheep that were sold in 2002.



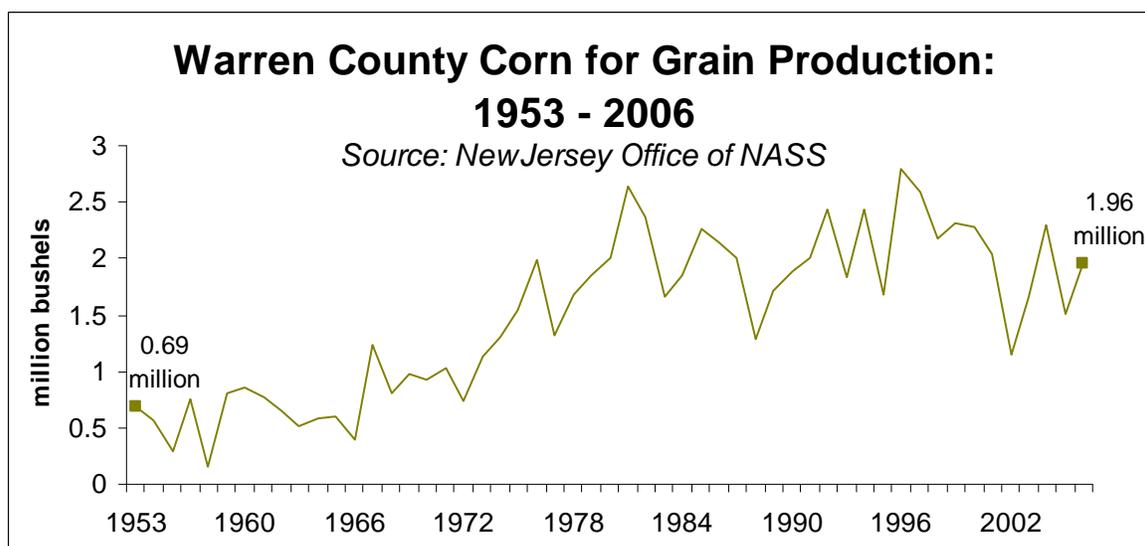
Field Crops

Crops in Warren County sold for a total of \$18.4 million in 2002, slightly less than in 1997. Within this category of agricultural products, nursery and greenhouse operations are the County’s highest grossing subsector. Sales of nursery and greenhouse products, including sod, account for roughly 41% of the County’s agricultural sales, which corresponds to \$7.6 million (see *2002 Crops Sales by Category* chart below). Nursery and greenhouse yields were not as adversely affected by drought conditions during the 2002 census year as the yields of other field crops, and thus their share of Warren County’s crop sales may be somewhat inflated. However, the nursery and greenhouse industry has experienced far more growth than any other agricultural sector in the County over the last 20 years, indicating a continuing upward trend (see *Warren County Crop Sales* chart below).





Corn for grain has been the historically dominant field crop of Warren County. Over 27% of the agricultural land in the County was tilled for corn during 2002. However, severe drought reduced the output of this crop to a 36-year low in 2002. This temporarily dropped corn and other grains, including soybeans, wheat, and oats, to third among Warren County's highest grossing crop categories with \$3.8 million in 2002 sales. Despite the high variability in annual corn yields, as shown by the *Corn for Grain Production* chart below, corn remains among the staple crops of Warren County. It provides feed for many of the County's dairy and livestock farms, and provides the primary income for many of the County's farmers.



Vegetables were the County's second highest earning crop during 2002 with \$4.4 million in sales. More than 2,000 acres in Warren County were planted with vegetables during 2002 with the largest acreages devoted to sweet corn (436 acres) and pumpkins (186 acres). Vegetables do not require as much land as other field crops, and therefore most vegetable-producing farms use only a few acres or less for each vegetable crop. Larger farms produce sweet corn and collards, which respectively occupy 11 and 20 acres per farm in Warren County.

While vegetables account for a large percentage of Warren County's agricultural sales, the expenses incurred by the County's vegetable farmers tend to exceed those of other farmers. Vegetables require more intensive irrigation than most field crops, and may require seasonal laborers during their harvest. These additional expenses reduce the overall profit derived from vegetable production compared with similar sales of other field crops.

A small but significant portion of Warren County's agricultural sales come from other crops, such as hay and fruit. Warren County produced roughly 28,000 tons of hay during 2002 and 2005, which was the third highest hay yield in the state. Due to severe weather conditions and declining acreage, the County's 2002 and 2005 production totals are the lowest that have ever been recorded. Warren County is home to many fruit farms as well, and these farms are currently experiencing a surge in production. Warren County produced roughly four million pounds of apples in 2005 – three times more than it did during the 2002 Census year. Peaches and grapes greatly supplement the County's fruit production, and are being produced by many more farms in recent years.

Agricultural Support Services and Related Industries

The agriculture support services in Warren County are predominantly oriented towards supplying the raw materials necessary for farming. They include businesses such as tractor sales and supply stores, feed vendors, and hardware/equipment retailers. The largest cluster of agricultural support firms in Warren County is in and around Washington Borough where equipment and tractor retailers, such as Smith's Tractor and Frank Rymon and Sons, are located. Hackettstown contains a second notable concentration of agricultural support firms. It houses the largest agricultural auction house in New Jersey – the Livestock Cooperative Auction Market – where local farmers can sell or trade their products as well as general farm supply stores, such as Tickner's. Also, local hardware and grocery stores throughout Warren County serve as vendors for farming goods and supplies.

Local support businesses are often insufficient to meet all the needs of Warren County's agricultural community. Consequently, Warren County's farmers have become very adept at minimizing the need for many repair services by fixing many mechanical problems themselves. Farmers tend to specialize in some kind of agricultural repair and supplement their incomes by offering their services to other farmers. Warren County's farmers also rely heavily upon mail order and out-of-state retailers for their agricultural supplies. Processing facilities such as creameries and lumber mills have become absent from Warren County as well, forcing local farmers to ship their products out-of-town to be processed.

Some farmers have found that reliance upon out-of-state suppliers and non-local processing facilities imposes transportation costs that cut deeply into their operations' profitability.

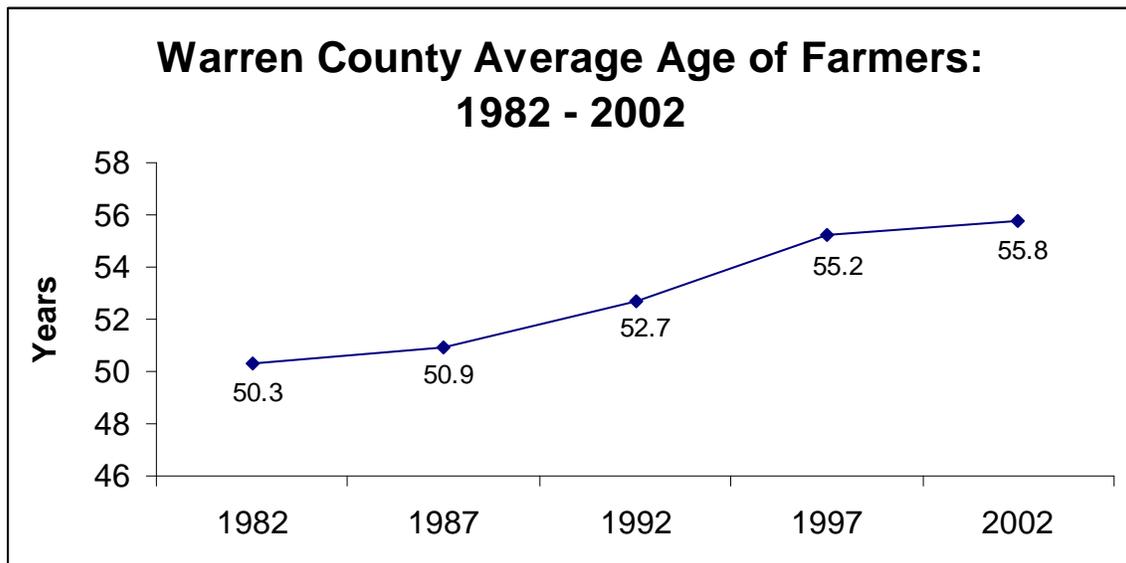
A comprehensive list of farm related businesses in New Jersey is available through the Rutgers Cooperative Extension of Salem County Green Pages:
<http://salem.rutgers.edu/greenpages/services.pdf>.

Future of Agriculture

The future of agriculture in Warren County is being shaped by market forces and social trends that are occurring throughout New Jersey. These trends have already begun to redefine the traditional agricultural industry in Warren County and may replace it with a much different type of farming than currently exists in the County. Among the most substantial trends shaping Warren County agriculture is the recent decline in the dairy market. Dairy is the foundation of Warren County's agricultural industry, and its continued decline will correspondingly impact dairy farmers and their support businesses as they transition towards other forms of agriculture. Consequently, grain and hay farms that support them may assume different agricultural activities as well.

Another challenge facing Warren County farmers is increasing land prices and property taxes. This trend dictates that farmers will show a greater preference for renting land rather than owning land, and that farm operations will take up less space and utilize more intensive practices on their land. Increasing land prices also threaten to replace many of Warren County's farmlands and open space areas with residential and commercial developments that are less compatible with agricultural production.

The demographics of farmers in Warren County are shifting too. Young farmers are attracted by higher paying opportunities in other employment sectors, and fewer young people are becoming farmers. Consequently, the average age of farmers in Warren County has increased from fifty years old in 1982 to 56 years old in 2002. (*Census of Agriculture*)



The combination of traditional agricultural markets declining and land costs increasing promises to promote innovation in the ways that farmers supplement their incomes. Farmers are currently trying to meet these challenges by producing goods with higher rates of return, such as nursery goods and sod, farm stand merchandise, and equine services. Agritourism facilities, such as farm stands, pick-your-owns, and petting zoos, may become more numerous as the County's residential population grows and the market for these types of services expands.

Increasing returns from "direct" sales of agricultural products to consumers indicates that these anticipated trends have already begun to influence agriculture in Warren County. Direct agricultural sales generated \$1.28 million for 162 Warren County farms in 1997 – a figure which, despite unfavorable growing conditions, grew to \$1.55 million from 174 farms in 2002. (*2002 Census of Agriculture*) Niche products, such as packaged and organic goods, that generate "value added" revenue streams are likely to increase as well. Young farmers are more likely to be able to adapt to these changing market conditions and modify existing operations to better suit current economic trends.

¹ United States Department of Agriculture: National Agricultural Statistic Service, 2002 Census of Agriculture. http://www.nass.usda.gov/Census_of_Agriculture/index.asp. Accessed June 2007.

² New Jersey Office the National Agriculture Statistics Service. http://www.nass.usda.gov/Statistics_by_State/New_Jersey/index.asp. Accessed June 1, 2007.

³ New Jersey Department of Agriculture. "New Jersey Agriculture 2006 Annual Report." www.state.nj.us/agriculture/pdf/06AnnualReport.pdf

⁴ The 2002 Census withheld this data to avoid disclosing information for individual farms.

⁵ The 2002 Census withheld this data to avoid disclosing information for individual farms.

CHAPTER 3: THE LAND USE PLANNING CONTEXT IN WARREN COUNTY



Land Use Patterns and Trends

During the formative years of Warren County, land use patterns were deeply influenced by the natural geography and topography. The County's rocky, mountainous ridgelines helped to concentrate colonists within its broad valleys. These valleys contained especially fertile soils, which prompted settlers to establish agricultural homesteads along the Musconetcong and Delaware Rivers. The Delaware River itself offered a natural transportation connection between Warren County's farmers and the markets for their products.

Transportation was another major influence on Warren County's land use patterns. During the 1800's, the Morris Turnpike (Route 57) and Morris Canal served as principal connectors to agricultural markets in eastern New Jersey and New York City. The Morris Canal and Turnpike roughly paralleled the Musconetcong River from the Delaware River at Phillipsburg through Washington to Hackettstown on the County's eastern border. Completion of the Morris Canal in the 1830's prompted industrial as well as agricultural development in the County. Many of the new industrial facilities were constructed along the Canal and close to the County's existing settlements. Consequently, the towns of Phillipsburg, Washington and Hackettstown became the County's population and commercial centers. (*2005 Warren County Strategic Growth Plan*)¹

This centers-based land use pattern – development in existing towns with agricultural or natural areas surrounding them – remained prevalent in Warren County through the mid-twentieth century. After 1950, residential development expanded westward from New York City and Morris County causing Warren County's population to double from 54,374 in 1950 to 108,910 in 2005 (see *Population Table* below). (*Workforce New Jersey Public Information Network*)² (*American Factfinder*)³ A number of factors contributed to the County's rapid growth during this time. Government incentives enacted during the 1950's encouraged the construction of single-family homes, causing developers to seek out larger and cheaper parcels of land on which to build. Simultaneously, the nation began constructing Interstate highways, which greatly increased the ease of living in rural communities far from traditional employment centers.

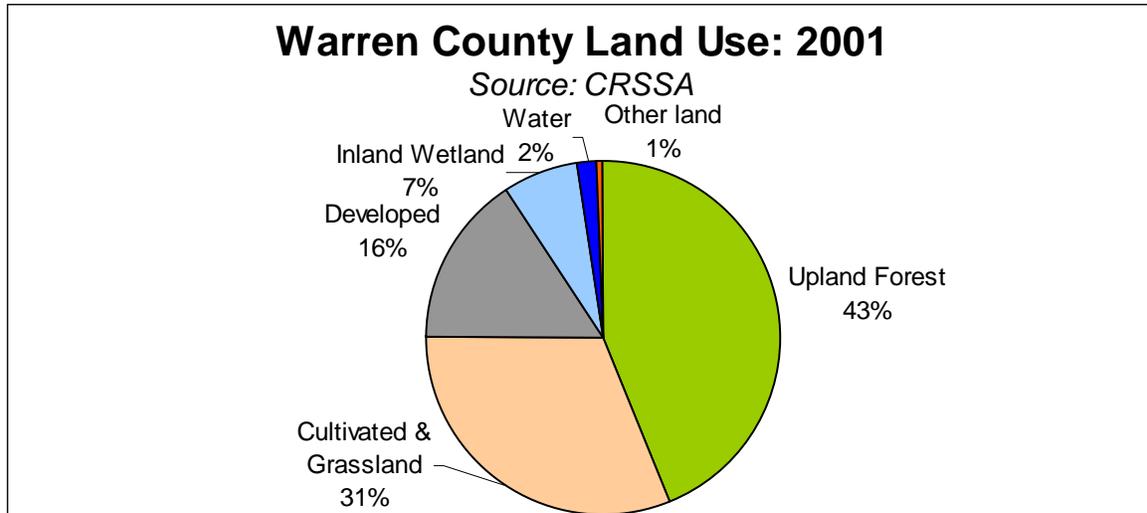
Warren County contained the necessary combination of inexpensive land and automobile accessibility that promoted rapid growth. The County road network was greatly expanded during this time and was further enhanced by the construction of Interstates 80 and 78

during the 1970's and 1980's. (2005 Warren County Strategic Growth Plan) The County's expanded rural road network and new arterial highways prompted growth in previously remote areas of the County. Growth near highway interchanges, in towns such as Blairstown, Allamuchy and Greenwich, was especially evident.

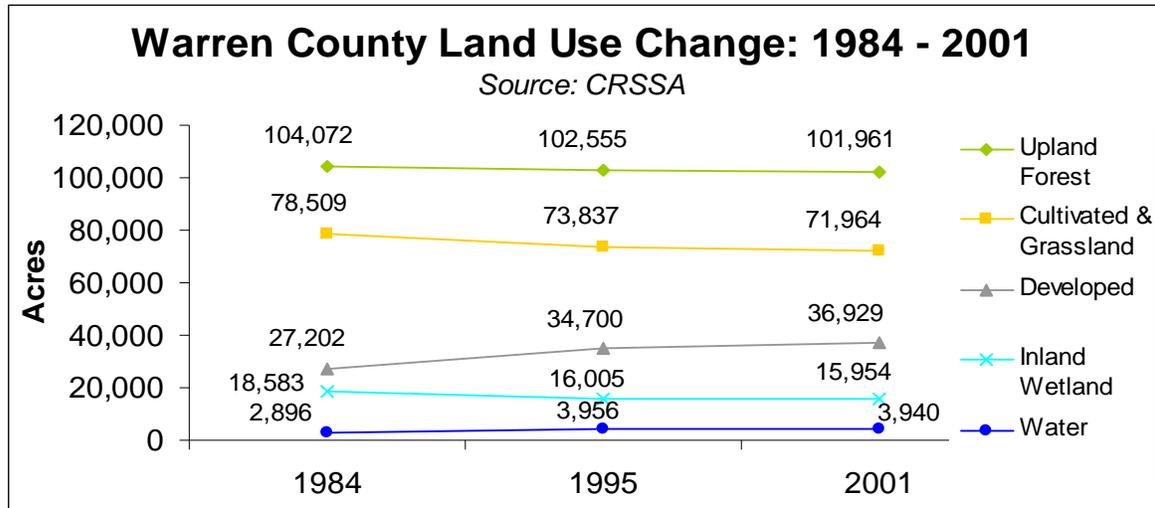
The County's centers also grew substantially during this time. In addition to their roles as concentrations of agricultural trade and support services, Warren County's towns also began to accommodate residential-oriented land uses such as neighborhoods, restaurants and retail stores. Much of the residential population that gravitated towards the County's centers and transportation hubs settled in the surrounding areas as well. Towns adjacent to traditional centers, including Mansfield, Lopatcong, and Washington Townships, roughly quadrupled in population after 1950. The residential population of Warren County continues to grow today (see *Population Table* below).

MUNICIPALITY	1930	1940	1950	1960	1970	1980	1990	2000	2005*
Allamuchy Township	684	686	736	973	1,138	2,560	3,484	3,877	4,122
Alpha Borough	2,374	2,301	2,117	2,406	2,829	2,644	2,530	2,482	2,639
Belvidere Town	2,073	2,060	2,406	2,636	2,722	2,475	2,669	2,771	2,946
Blairstown Township	1,416	1,449	1,571	1,797	2,189	4,360	5,331	5,747	6,110
Franklin Township	1,213	1,540	1,530	1,729	1,973	2,341	2,404	2,768	2,943
Frelinghuysen Township	696	715	779	845	1,118	1,435	1,779	2,083	2,215
Greenwich Township	1,141	1,125	1,217	1,397	1,482	1,738	1,899	4,365	4,641
Hackettstown Town	3,038	3,289	3,894	5,276	9,472	8,850	8,120	8,984	9,414
Hardwick Township	331	367	370	370	548	947	1,235	1,464	1,557
Harmony Township	1,311	1,465	1,763	2,039	2,195	2,592	2,653	2,729	2,901
Hope Township	553	646	681	833	1,140	1,468	1,719	1,891	2,011
Independence Township	964	1,046	1,169	1,509	2,057	2,829	3,940	5,603	5,957
Knowlton Township	1,049	1,084	1,260	1,442	1,738	2,074	2,543	2,977	3,165
Liberty Township	419	441	529	760	1,229	1,730	2,493	2,765	2,940
Lopatcong Township	1,269	1,450	1,737	2,703	3,144	4,998	5,052	5,765	6,129
Mansfield Township	1,139	1,254	1,497	2,130	3,546	5,780	7,154	8,072	8,602
Oxford Township	1,723	1,548	1,489	1,657	1,742	1,659	1,790	2,307	2,453
Pahaquarry Township**	80	72	67	63	71	26	20	0	0
Phillipsburg Town	19,255	18,314	18,919	18,502	17,849	16,647	15,757	15,166	16,124
Pohatcong Township	1,974	2,029	2,540	3,543	3,924	3,856	3,591	3,416	3,632
Washington Borough	4,410	4,643	4,802	5,723	5,943	6,429	6,474	6,712	7,136
Washington Township	1,007	1,320	1,765	3,055	3,585	4,243	5,367	6,248	6,643
White Township	1,200	1,335	1,536	1,832	2,326	2,748	3,603	4,245	4,513
WARREN COUNTY	49,319	50,181	54,374	63,220	73,960	84,429	91,607	102,437	108,910
GROWTH RATE		1.75%	8.36%	16.27%	16.99%	14.15%	8.50%	11.82%	6.32%
* - Estimates from U.S. Census and Warren County Planning Department									
** - Pahaquarry Township was annexed by Hardwick Township in 1997									

Despite the increasing pace of development over the last fifty years, much of Warren County has retained a predominately rural character. The Center for Remote Sensing and Spatial Analysis at Rutgers University reports that 71,964 acres of cultivated and grasslands (roughly 31% of Warren County) remained in 2001. (*Center for Remote Sensing and Spatial Analysis*)⁴ This land use was second in the County only to upland forests, which occupied 101,961 acres (43%). Developed areas, the third most common land use in the County, encompassed 36,929 acres. Wetlands, open waters and barren land comprise the remainder of Warren County (see *Land Use* chart below). (*Center for Remote Sensing and Spatial Analysis*)



Unfortunately, developed areas are gradually consuming forested and agricultural lands. Almost 10,000 acres of developed land was added to Warren County between 1984 and 2001, while forested and cultivated acreage was significantly decreased (see *Land Use Change* chart below). (*Center for Remote Sensing and Spatial Analysis*) Between 1995 and 2000, Warren County lost approximately 1,000 acres of forests and 1,200 acres of farmland to development. The large majority of this new development took the forms of residential subdivisions and transitional areas. Areas along Route 94 accounted for most of the County’s losses in forested and cultivated acreage. Agricultural losses were also common around the County’s centers at Belvidere, Washington Borough, Hackettstown, and Phillipsburg. (*Center for Remote Sensing and Spatial Analysis*)



Public Infrastructure – Sewer and Water

Roughly 6% of Warren County’s land area is currently within sewer service areas, and another 4% of the County will receive sewer service in the future. These areas are generally located near existing development centers, and contain some of the most appropriate lands for new development in Warren County. Developments in sewer service areas can be easily connected to the existing wastewater system, which helps prevent contamination of the County’s aquifers and drinking water reserves from the addition of new septic systems. Restricting development to areas around established centers with existing infrastructure also conserves the rural environs that surround them. The following chart shows the sizes and locations of these existing and proposed sewer service areas (*Warren County Planning Department*) and the *Existing and Future Sewer Service Areas map* on the following page outlines them geographically.

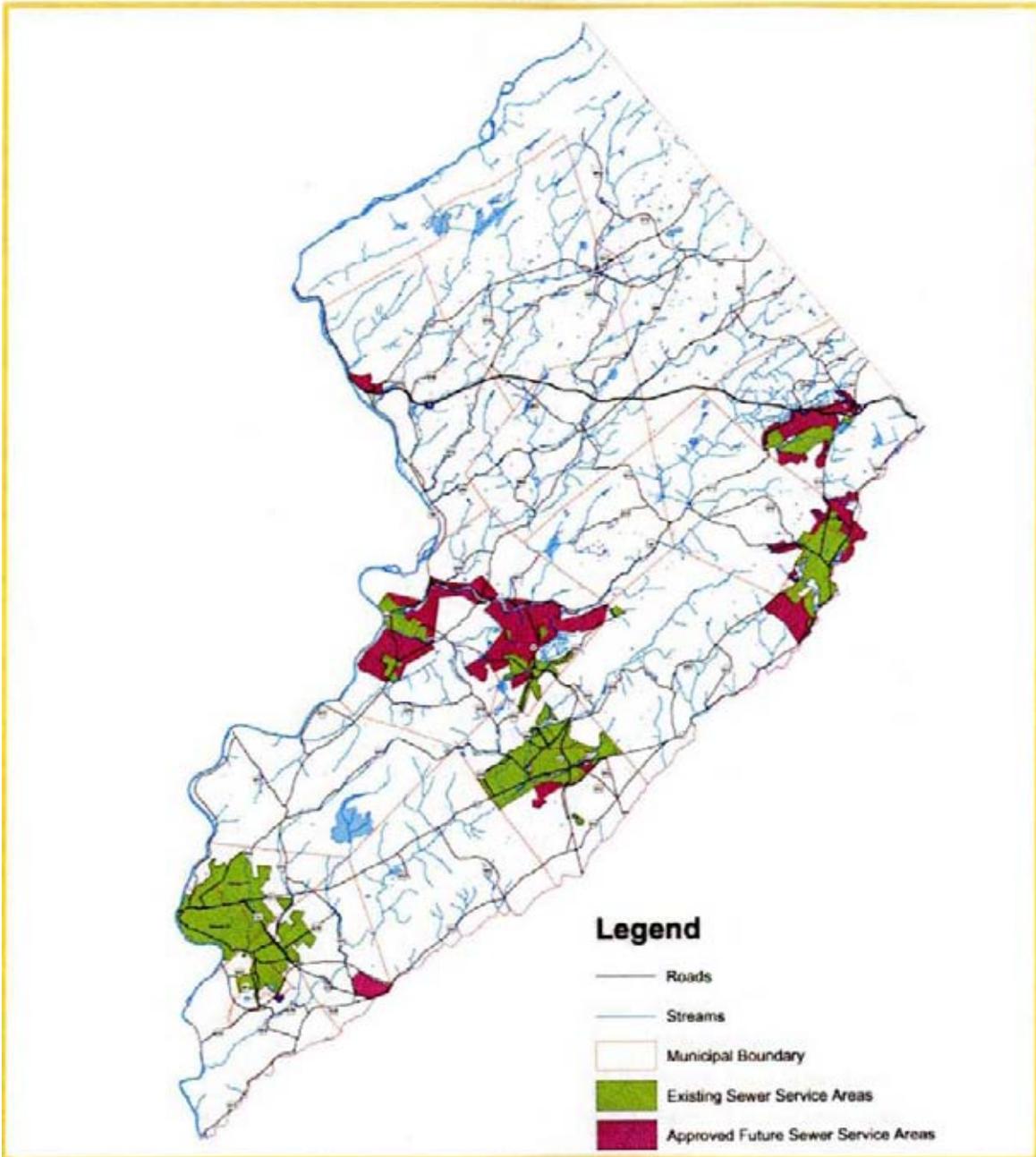
Warren County Sewer Service Areas: Existing and Future		
<i>Existing</i>		
Service Provider	Acres	Towns
Alpha Boro Sewer Service	610	Alpha
Hackettstown Municipal Utilities Authority	1,822	Hackettstown, Independence, Mansfield
Pequest River MUA(Belvidere)	785	Belvidere, White
Pequest River MUA (Oxford)	1,055	Oxford, White
Pequest Sewer Company (Allamuchy)	712	Allamuchy
Phillipsburg Stormwater Treatment Plant	5,108	Greenwich, Lopatcong, Phillipsburg, Pohatcong
Washington Borough Sewer Utility	949	Washington Borough
Washington Twp Municipal Utilities Authority	2,250	Washington Township
TOTAL	13,291	

Warren County Sewer Service Areas: Existing and Future		
<i>Future</i>		
Service Provider	Acres	Towns
Greenwich Twp Southerly Sewer Area	361	Greenwich
Hackettstown Municipal Utilities Authority	1,635	Hackettstown, Independence, Mansfield
Knowlton Twp Wastewater Treatment Facility	200	Knowlton
Pequest River MUA(Belvidere)	2,332	Belvidere, White
Pequest River MUA(Oxford)	2,790	Oxford, White
Pequest Sewer Company (Allamuchy)	1,295	Allamuchy
Washington Borough Sewer Utility	273	Washington Borough
TOTAL	8,887	
TOTAL (EXISTING AND FUTURE)	22,178	

Warren County currently has 25 public community water supply systems, 262 public non-community systems, and approximately 15,000 private wells. (*Warren County Health Department*)⁵ Public water is available to between 10 and 15% of Warren County's residents. All drinking water resources in Warren County, public and private, are derived from local groundwater. The principle groundwater wells that supply water to the County's public community systems are shown in the *Public Community Wells* map on page 3-6.

Figure 3

Existing and Future Sewer Service Areas



WARREN COUNTY SMART GROWTH PLAN

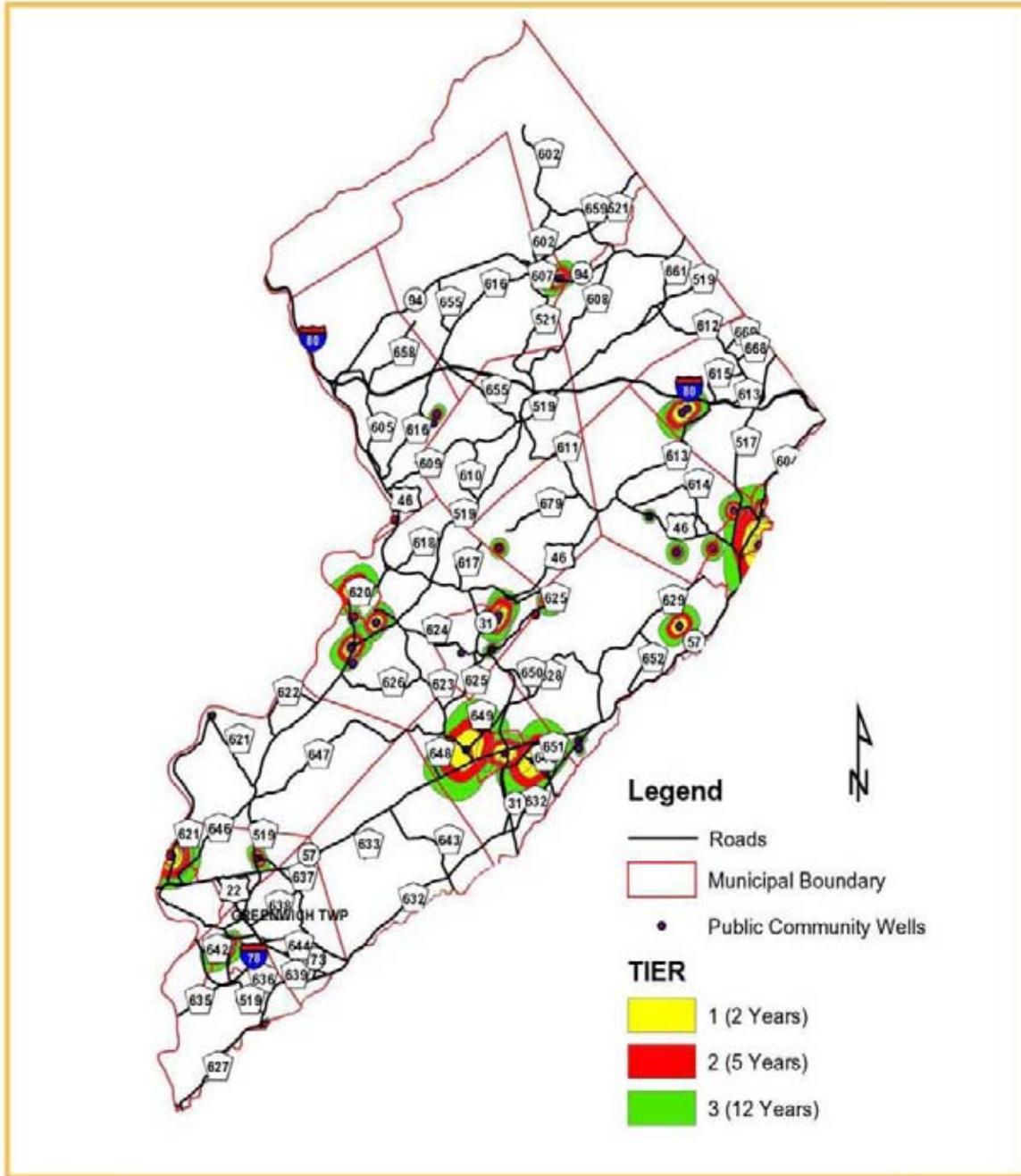


**Edwards
and
Kelcey**

Source: Warren County Planning Department

Figure 2

Public Community Wells



Source: Warren County Planning Department

Land Use Planning Initiatives

Warren County has been the subject of extensive and sustained land use planning efforts undertaken by all levels of government. Through the *State Development and Redevelopment Plan* and the *Highlands Regional Master Plan*, New Jersey has recognized Warren County as the location of prime agricultural and natural resource lands. The County incorporates a large portion of the State's policy directives from these plans into its own *2005 Strategic Growth Plan*. All of the County's municipalities also conduct their own master planning efforts and many incorporate provisions of the State Plan.

State Development and Redevelopment Plan

The New Jersey State Planning Commission has drafted the *State Development and Redevelopment Plan (SDRP)*⁶ that outlines general policy objectives concerning land use and future development in the State. The SDRP identifies five Planning Areas within the State where different sets of goals and guidelines are considered appropriate to determine development activities. (see *Planning Areas Map* at the end of this section) These Planning Areas are labeled as Metropolitan, Suburban, Fringe, Rural and Environmentally Sensitive lands. The SDRP also identifies Designated Centers where future development and redevelopment activities are most appropriate and will be actively promoted. Centers are categorized as Urban Centers, Regional Centers, Towns, Villages, and Hamlets corresponding to criteria including size, regional location, population, residential and employment densities, and available housing stock. The combination of Planning Areas and Designated Centers establishes a comprehensive framework for pursuing land use and development regulation throughout New Jersey.

Metropolitan Planning Areas are comprised of the highly developed regions in the state. The goals in this planning area revolve around revitalizing existing cities and towns by encouraging compact growth and redevelopment. The Metropolitan Planning Area is identified as the most appropriate location for future development in New Jersey. Warren County contains one concentration of Metropolitan Planning Area that is centered in Phillipsburg and extends into the surrounding municipalities including Greenwich Township, Lopatcong Township, Pohatcong Township and Alpha Borough.

Suburban Planning Areas are called upon to support most of the new development that will occur in New Jersey while maintaining the character of existing communities there. Growth in suburban town centers is especially encouraged in order to help protect and preserve the natural resources that exist in these areas. The Suburban Planning Area is meant to complement metropolitan areas, and is most commonly found outside heavily urban areas. Warren County has one small pocket of Suburban Planning Area land located east of Phillipsburg in Lopatcong, Pohatcong and Greenwich Townships.

Fringe Planning Areas serve as an appropriate interface between suburban and rural areas. They are not as developed as metropolitan and suburban areas, but support more development activity than nearby rural lands. Fringe Areas play the important role as a buffer between these largely incompatible land uses. Consequently, they are often the

frontlines of urban sprawl, and must be carefully planned to ensure that development is appropriately restricted to existing urbanized areas. Warren County does not contain any land within the Fringe Planning Area.

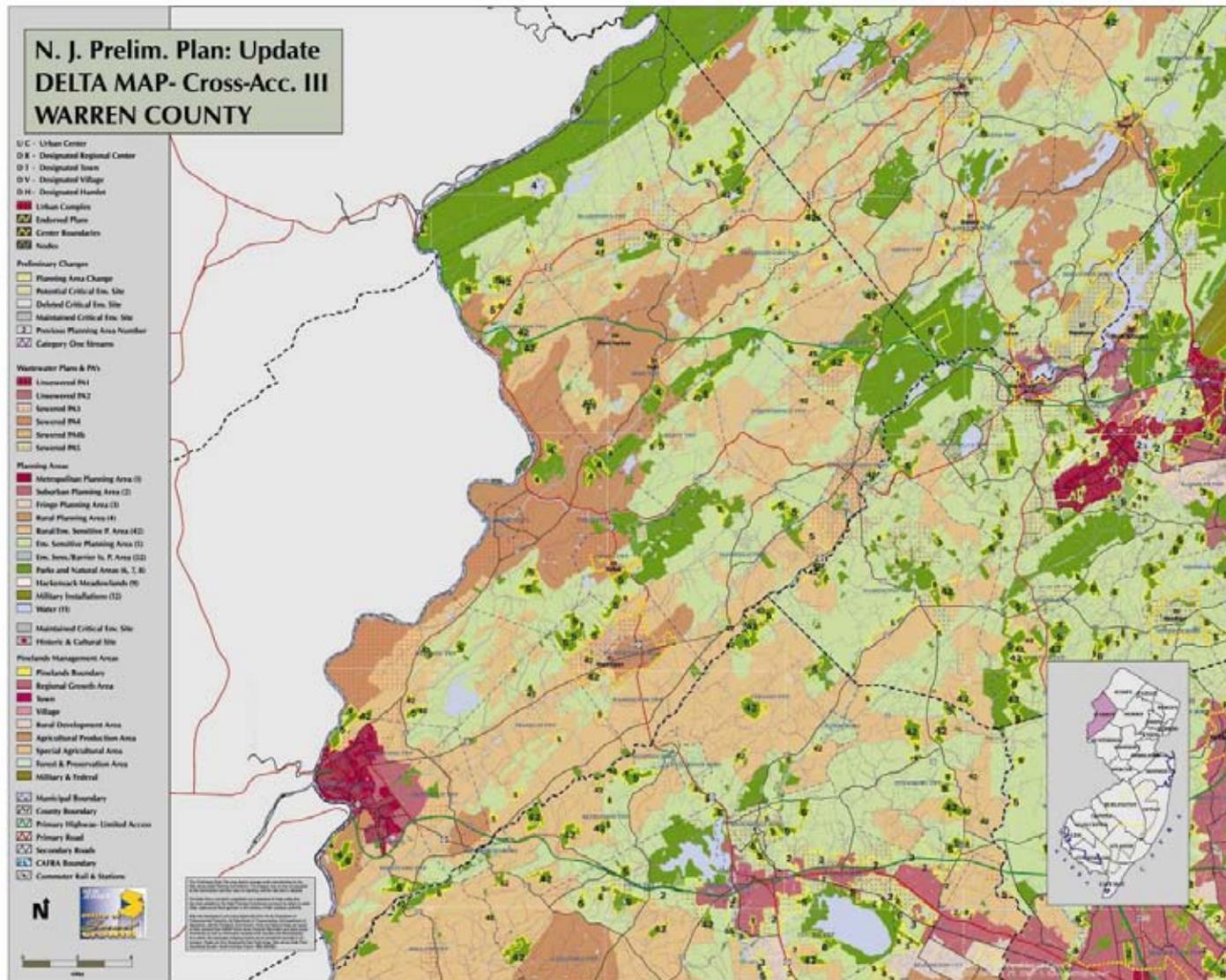
Rural Planning Areas are suitable for the preservation of large contiguous areas of farmland. Sustaining the agricultural industry while confining development and redevelopment within existing towns are included among the policy objectives applicable to these areas. Much of the land within the Rural Planning Area supports environmentally-sensitive resources such as underground aquifers or critical wildlife habitats. Lands within the Rural and Rural-Environmentally Sensitive Planning Area are widespread throughout Warren County. The Rural Planning Area is concentrated along the Delaware River and Hope Township while the Rural-Environmentally Sensitive Planning Area is primarily located in the Musconetcong and Pequest Valleys with scattered occurrences in the northern municipalities.

Environmentally Sensitive Planning Areas contain lands where natural resource preservation should be the primary planning consideration. Development should be minimized or constrained to existing centers while large contiguous natural areas should be preserved as open space. Large areas of Warren County fall within the Environmentally Sensitive Planning Area. Most of this area is associated with the Highlands Ridge that runs between Allamuchy and Lopatcong Townships or Kittatinny Range that runs along the County's northern border.

Centers are defined by the New Jersey State Planning Commission as "compact forms of development that, compared to sprawl development, consume less land, deplete fewer natural resources and are more efficient in the delivery of public services." (*SDRP*) Centers become designated after the municipalities or counties that encompass them submit development plans to the State Planning Commission (now the Office of Smart Growth) that are subsequently endorsed. Proposed Centers are currently in the process of having their plans endorsed by the State. The only municipalities in Warren County that have endorsed centers are Hope Township, Oxford Township, Washington Borough and Washington Township.

There are various types of center designation according to the characteristics of the urban areas being considered with different policies concerning land use and the promotion of future development opportunities applicable in each. *Urban Centers* are the most intensively utilized areas in the state. They serve as concentrations for corporate headquarters, industry, residential areas and culture. Warren County contains no Designated, Proposed or Potential Urban Centers.

Regional Centers are smaller urban areas that provide the various commercial, cultural and residential needs of a geographically-defined region. Regional Centers are generally less than 10 square miles, but are sufficiently active to support public transportation. Warren County contains no Designated Regional Centers, but does have two Proposed Regional Centers that are focused around Phillipsburg and Hackettstown.



Towns are smaller than Urban and Regional Centers, usually less than 2 square miles in size, that serve as a local concentration of commerce and government activity. They commonly support residential neighborhoods and offer access to local goods and services as well. The Washington Town Center, which incorporates parts of Washington Township and all of Washington Borough, is the only Designated Town in Warren County, while Belvidere and Alpha have been proposed as Towns.

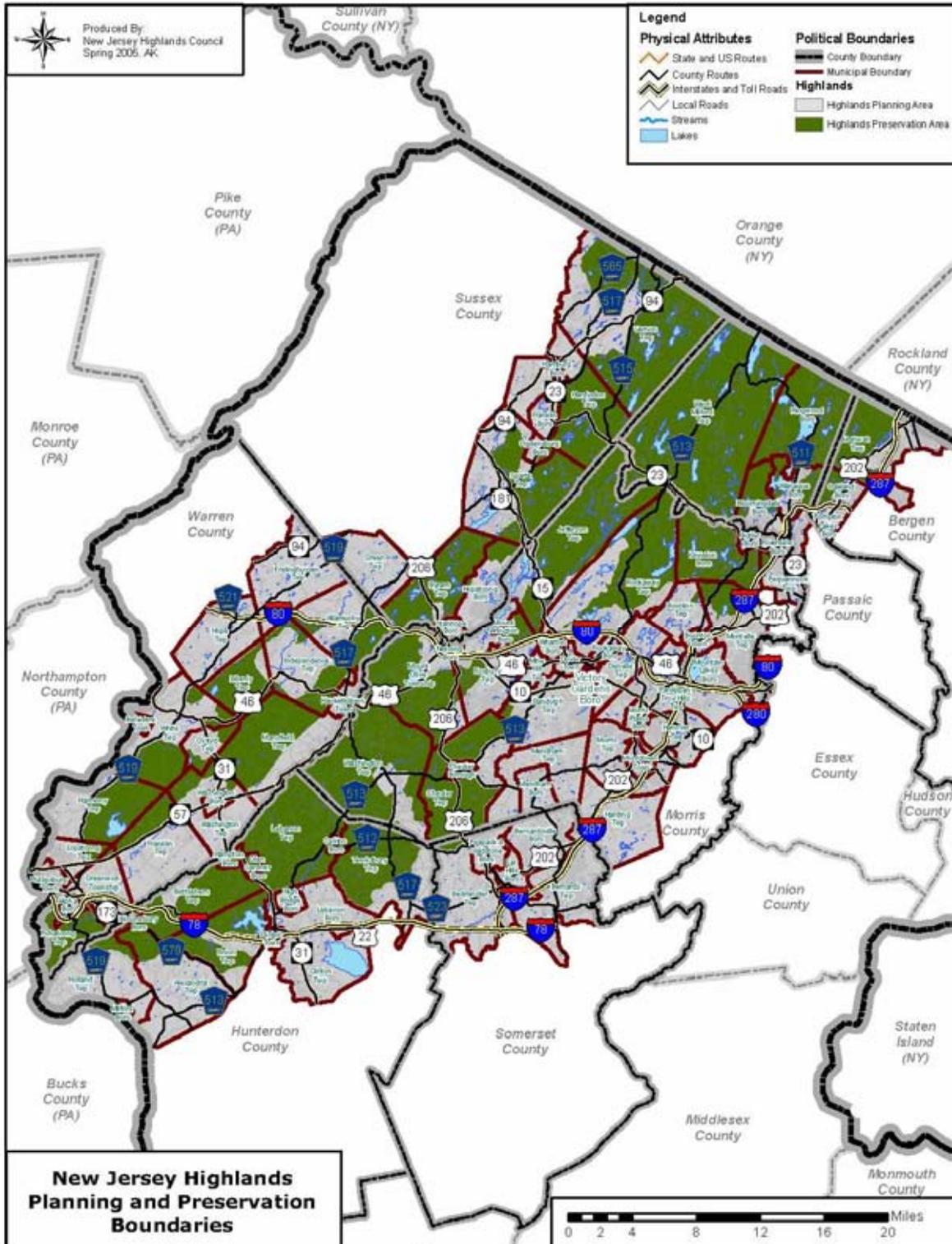
Villages are residential neighborhoods that have access to some local public and commercial facilities. Villages are small, occupying less than 1 square mile. The only Designated Villages in Warren County are Hope and Oxford, but many areas have been identified as suitable for Village designation by the State Planning Commission.

Hamlets are the smallest type of Center. They are usually a residential community that is planned around some small local focal point, such as a place of worship. The recommended area of a hamlet is between 10 and 50 acres without community wastewater or less than 100 acres with community wastewater. Mount Hermon, which is part of Hope Township, is the only Designated Hamlet in Warren County. The only Proposed Hamlet in Warren County is Allamuchy.

Warren County Centers			
<i>Source: Warren County Strategic Growth Plan</i>			
Municipality	Name	Type	Status
Allamuchy Township	Allamuchy	Hamlet	Proposed
Alpha Borough	Alpha Town Center	Town	Proposed
Belvidere	Belvidere Town Center	Town	Proposed
Hackettstown	Hackettstown Regional Center	Regional	Proposed
Hope Township	Hope	Village	Designated
Hope Township	Mount Herman	Hamlet	Designated
Oxford Township	Oxford	Village	Designated
Phillipsburg	Phillipsburg Regional Center	Regional	Proposed
Washington Borough	Washington Town Center	Town	Designated
Washington Township	Washington Town Center	Town	Designated

Highlands Regional Master Plan

The New Jersey State Legislature enacted the Highlands Water Protection and Planning Act on August 10, 2004. In an effort to ensure the integrity of the northern New Jersey’s drinking water resources, the Highlands Act imposes strict land use controls over large parts of the 88-municipality region, known as the Highlands Preservation Zone (see *Highlands South Zone* map below). Areas within the Preservation Zone are subject to heightened restrictions on development, water use and activities that affect water quality or environmentally sensitive lands. The Act expands mandatory buffers around the region’s streams and water bodies, sets limits on impervious coverage for individual properties and requires master plan conformance from Preservation Area municipalities, among other criteria.



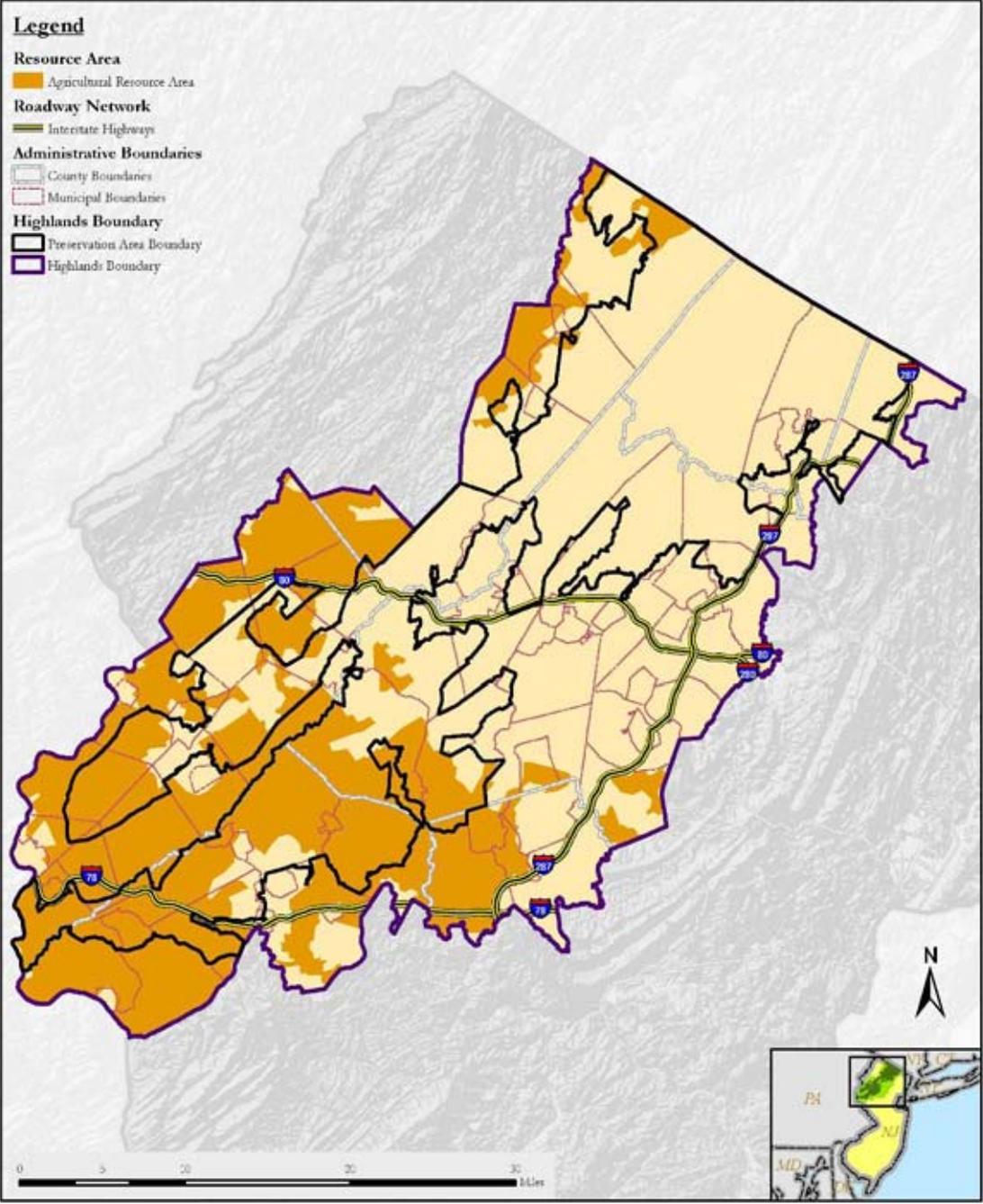
Source: New Jersey Highlands Council

Large portions of Warren County fall within the Highlands region. Blairstown, Knowlton and Hardwick Townships are the only municipalities in the County that are not affected by the Highlands Act. Over 67,000 acres in Warren County fall within the Highlands Preservation Zone and are subject to the restrictions that apply there (see *Highlands Acreage* chart below). (*Highlands Draft Regional Master Plan*)⁷ The Preservation Area in Warren County roughly incorporates the Highlands Ridgeline starting with Allamuchy Mountain and running southwest through Upper Pohatcong Mountain and Jenny Jump Mountain before terminating at Scott’s Mountain in Lopatcong Township. Significant areas in the lower Delaware and Musconetcong Valleys, encompassing most of Pohatcong Township and parts of Greenwich Township, are included in the Preservation Zone as well. (see *Highlands South Zone* map at the conclusion of this chapter)

HIGHLANDS ACREAGE			
<i>Source: New Jersey Highlands Council</i>			
MUNICIPALITY	PLANNING AREA	PRESERVATION AREA	TOTAL
Allamuchy Township	7,683	5,228	12,911
Alpha Borough	1,098	0	1,098
Belvidere Town	950	0	950
Franklin Township	11,284	3,792	15,077
Frelinghuysen Township	15,278	0	15,278
Greenwich Township	5,986	792	6,778
Hackettstown Town	2,168	203	2,371
Harmony Township	7,018	8,387	15,405
Hope Township	11,702	0	11,702
Independence Township	6,510	6,250	12,760
Liberty Township	543	7,095	7,638
Lopatcong Township	3,673	1,051	4,723
Mansfield Township	5,966	13,047	19,014
Oxford Township	1,671	2,184	3,855
Phillipsburg Town	2,110	0	2,110
Pohatcong Township	1,210	7,582	8,793
Washington Borough	1,262	0	1,262
Washington Township	7,970	3,604	11,574
White Township	9,984	7,812	17,796
Total	104,066	67,030	171,096

The Highlands Council – the regional planning body charged with implementing the Highlands Act – has established the preservation of farmland and the industry of farming as one of its principal objectives. To this end, the *Highlands Draft Regional Master Plan* identifies an Agricultural Resource Area that will receive the bulk of future funding and institutional support from the Highlands Council. The Agricultural Resource Area encompasses areas that contain contiguous farmbelts and quality agricultural soils. The large majority of Warren County’s Highlands acres falls within the Agricultural Resource Area. (see *Agricultural Resource Area* map below)

Agricultural Resource Area



The Highlands Council makes no representations of any kind, including, but not limited to, the warranties of merchantability or fitness for a particular use, and no such warranties to be implied with respect to the information contained on this map. The State of New Jersey shall not be liable for any actions taken or omissions made from reliance on any information contained herein from whatever source nor shall the State be liable for any other consequences from any such reliance.

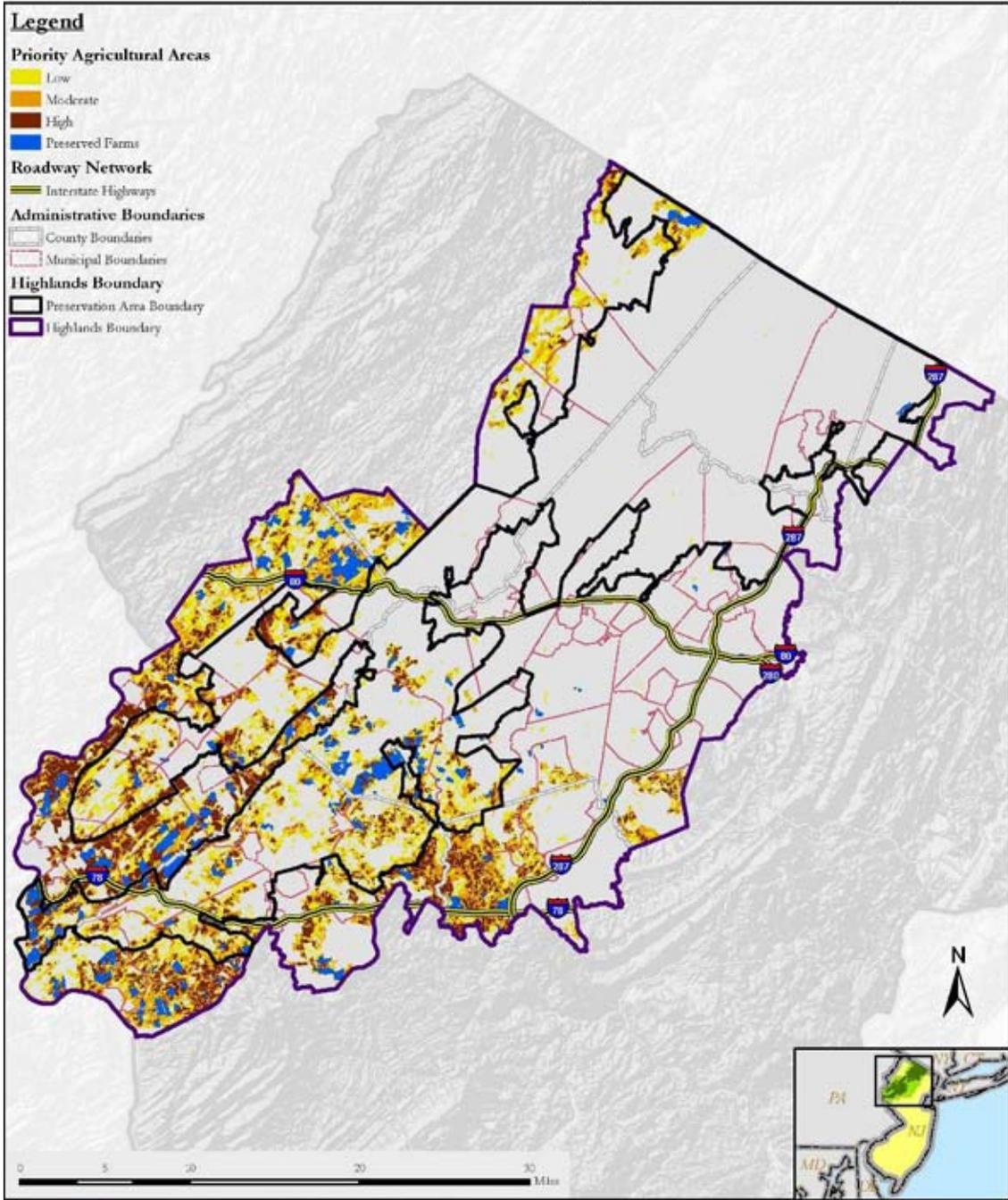
Draft Regional Master Plan, November 2006



Sources:
New Jersey Highlands Council, 2006

Source: New Jersey Highlands Council

Agricultural Priority Area



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Draft Regional Master Plan, November 2006



Sources:
 New Jersey Highlands Council, 2006
 New Jersey Department of Agriculture -
 State Agriculture Development Committee, 2006

Source: New Jersey Highlands Council

The Highlands Council also identifies Agricultural Priority Areas – subsets of the larger Agricultural Resource Area that are particularly well-suited to agricultural production. Criteria used by the Highlands Council to delineate these areas include soil quality, tillable acreage, buffers, development potential, local commitment, contiguity with other farm parcels and size. (*Highlands Sustainable Agriculture Technical Report*)⁸ The Delaware, Musconetcong and Pequest Valleys in Warren County contain the greatest concentrations of High Priority Agricultural Areas in the Highlands region. (see *Agricultural Priority Areas* map above) When the *Highlands Regional Master Plan* is finalized data will be available to determine the amount of farmland acreage in each of the Land Use Capability Zones, including both preserved and unpreserved farmland within the Agricultural Priority Area. This information will be included in the annual updates to the *Warren County Comprehensive Farmland Preservation Plan*.

HIGHLANDS AGRICULTURAL LANDS (ACRES)						
Municipality	Preservation Area		Planning Area		Total	
	Preserved Farmland	All Agricultural Land	Preserved Farmland	All Agricultural Land	Preserved Farmland	All Agricultural Land
Allamuchy Township	50	736	1,993	3,661	2,043	4,396
Alpha Borough	0	0	125	393	125	393
Belvidere Town	0	0	3	97	3	97
Franklin Township	239	2,572	1,750	8,421	1,989	10,993
Frelinghuysen Township	0	0	1,456	10,333	1,456	10,333
Greenwich Township	0	514	435	3,417	435	3,931
Hackettstown Town	0	0	0	0	0	0
Harmony Township	334	3,408	1,057	4,897	1,390	8,306
Hope Township	0	0	396	7,251	396	7,251
Independence Township	0	3,141	318	4,548	318	7,689
Liberty Township	0	2,838	0	466	0	3,304
Lopatcong Township	0	474	0	932	0	1,406
Mansfield Township	117	7,075	614	3,094	731	10,169
Oxford Township	0	477	0	574	0	1,051
Phillipsburg Town	0	0	0	263	0	263
Pohatcong Township	1,702	5,345	0	492	1,702	5,837
Washington Borough	0	0	0	74	0	74
Washington Township	592	1,618	559	3,598	1,152	5,217
White Township	85	3,999	454	5,445	539	9,445
TOTAL	3,119	32,198	9,161	57,956	12,280	90,154

Source: Warren County Department of Planning

Warren County Strategic Growth Plan

The *Warren County Strategic Growth Plan* fulfills the requirement set forth by the New Jersey County Planning Enabling Act (NJRS 40:27-2) that counties must adopt a plan that governs their physical development. The *Strategic Growth Plan* was adopted in December 2004 and revised in October 2005, and serves as an update to the County’s *1979 General Development Plan* and the *1984 Transportation Plan*. The *Strategic Growth Plan* is an effort to enhance intergovernmental coordination by serving as an intermediary between

State and local governments. As such, it is a vital link in the planning process that connects policy with action. It incorporates State-level land use policies, as outlined in the State Plan, into plans for local, on-the-ground initiatives such as center designations and resource conservation efforts.

The *Strategic Growth Plan* was developed with input from the Warren County Planning Board, an 88-member steering committee and eight public meetings held throughout the planning process. Input from these groups yielded a series of general policy goals and indicators that measure the progress being made towards these goals. The number one goal identified in the *Strategic Growth Plan* is the preservation and enhancement of the County's rural character. Corresponding indicators include preserved open space and farmlands, designated historic sites, agricultural output and agricultural land base. Among the goals identified by the *Strategic Growth Plan* are concentrating growth in existing centers, improving public infrastructure in these centers, and maintaining quality of life for local residents. (2005 Warren County Strategic Growth Plan)⁹

The *Warren County Strategic Growth Plan* supports an alternative, centers-based scenario where commercial and industrial zones are restricted to existing centers of development. Public opinion surveys that were conducted as part of the *Strategic Growth Plan* identify this alternative scenario as the preferred option to the existing zoning scheme. The Plan's transportation modeling also shows that the alternative zoning is less likely to induce additional traffic delays. (2005 Warren County Strategic Growth Plan)

The *Strategic Growth Plan* concludes with a series of recommendations that are aimed at advancing this alternative, centers-based scenario. Many recommendations are focused on promoting development in existing centers. These include allowing non-residential zones only in existing centers, reviewing and improving local design standards, creating transportation financing districts and pursuing downtown revitalization through brownfield redevelopment and Urban Enterprise Zone designation. Other recommendations advocate resource preservation efforts such as open space and farmland preservation, stormwater planning, density transfer programs (including TDR) and subdivision design ordinances that mandate clustering or conservation design. (2005 Warren Co. Strategic Growth Plan)

Route 57 Corridor Study

In 2003 an agreement was entered into with NJDOT to acquire lands in the "view shed" of Route 57 that had been designated as a scenic byway. Funds were made available for Warren County to complete acquisitions and preserve sites with specific restrictions to ensure unobstructed views of the valley and ridge lines. This was an opportunity to cluster development in the established towns in order to retain the highway corridor and protect open space, agricultural land, and the scenic corridor. The County acquired one such site, a 70-acre parcel in Franklin Township. In 2003 but the program was terminated due to concerns by the Attorney General's Office as to the legality of funding the acquisitions by the county. No further acquisitions have occurred.

Municipal Planning

The viability of farming in Warren County can be maintained and even advanced by implementing preservation planning policies that minimize conflict between agriculture and development. Development's most damaging impact on agriculture occurs when large areas of active farmlands are converted to non-agricultural land uses. Planning methods are available that can effectively reduce the amount of farmland that is subsumed by development without placing economic hardship on local residents or precluding growth. These planning methods also help preserve the rural character of areas where they are employed and contribute to the positive impacts the farming has on local economies.

A detailed description of each of these planning techniques is provided below.

Cluster Zoning

Cluster zoning is a tool that allows builders to reduce the overall area of their projects without reducing the number of structures they construct. A cluster zoning ordinance, for example, may allow a developer with a 200-acre parcel zoned for a density of ten acres per unit to construct the permitted 20 units on only a portion of the property. If the builder, through a cluster zoning option, constructs the 20 units on only 100 acres of the parcel at a density of 5 acres per unit, the remaining 100 acres are left open. The open area of the parcel must remain in an undeveloped state in perpetuity, but may be used for farming.

Cluster zoning provides both the ability to develop a site to its full extent based on zoning and the preservation of contiguous agricultural lands. This option is often attractive to builders because there tends to be fewer infrastructure costs associated with roadway construction, power lines, and sewage connections in more compact developments. Clustering is attractive to local residents and farmers because it retains some agricultural areas and the rural character they create. Additionally, the undeveloped portions of clustered developments are permanently deed-restricted, which helps to ensure the permanence of local farming.

Lot Size Averaging

Lot size averaging is similar to cluster zoning because it allows for the creation of differently sized parcels within one development. For instance, lot size averaging on a 200-acre parcel with 10-acre zoning would permit its subdivision into fifteen one-acre parcels and five 37-acre parcels. This subdivision pattern may allow farmland production to continue on the larger parcels created and helps retain some of the agricultural ambience that might otherwise be lost.

Non-Contiguous Cluster Zoning

In contrast to cluster zoning, non-contiguous cluster zoning permits the transfer of development density *between* parcels instead of only within parcels. First, a "sending" parcel (where the permitted development density is reduced) and a "receiving" parcel

(where the permitted development density is increased) are designated. Then, the total development potential on both properties is calculated. In a case where two fifty-acre parcels are undergoing non-contiguous clustering under ten-acre zoning, there are five permitted units on each lot and ten permitted units overall. Finally, the overall development potential (10 units in this case) is applied to the receiving parcel while the sending parcel is permanently protected from future development. Non-contiguous clustering allows for development to be moved out of prime agricultural areas and concentrated into more appropriate and desirable locations.

Transfer of Development Rights

Transfer of Development Rights (TDR) is a planning tool that channels development into desirable locations without diminishing landowners' equity. TDR allows development rights to be separated from the land in TDR *sending areas* and transferred to parcels in a different location – TDR *receiving areas*. Sending areas are places where further development is inconsistent with the local landscape, such as natural resource lands or contiguous farm belts, while receiving areas are places where further development is consistent with local planning objectives, such as Towns and Boroughs.

By allowing the development rights of sending area lands to be exercised in a geographically different location, TDR preserves the economic value of land in sending areas without requiring that development take place there. Therefore, sending area land (where physical development may be legally precluded) can be sold at fair market values that are comparable to those in areas where development is still permitted. Sending area lands are thereby effectively preserved in an undeveloped state while sending area landowners retain the economic value of their full property rights.

The New Jersey State Transfer of Development Rights Act (*N.J.S.A. 40:55D-140*)¹⁰ authorizes the transfer of development rights by municipalities and outlines what a town must do in order to adopt or amend a TDR ordinance. First, the municipality must prepare a Real Estate Market Analysis (REMA) that quantifies the development potential of the sending zone(s) and the capacity of the receiving zone(s) to accommodate additional development. It must then amend its master plan to include a Development Transfer Plan Element that outlines a mechanism for assigning development credits to areas in the sending zone and reapplying them to areas in the receiving zone. An updated Utility Service Plan and Capital Improvement Program for the receiving zone should be adopted as well. Finally, a town must receive approval from the State Planning Commission to adopt the TDR ordinance. (*N.J.S.A. 40:55D-140*)

There are many different transfer-of-development rights programs that may be instituted in Warren County. One such program is the *intra-municipal TDR* in which sending and receiving areas are located within the same town. Intra-municipal TDR programs would be appropriate for the many Warren County towns that have designated or proposed centers and large amounts of agricultural or natural resource lands such as Hope, Oxford, and Allamuchy. Townships with large acreages of resource lands and proximity to existing centers in adjoining municipalities might be better served by *inter-municipal TDR*

programs. In this case, sending areas are established in one municipality with receiving areas in another. Some form of tax-based revenue sharing is normally involved with these programs. Pairs of Warren County municipalities where inter-municipal TDR programs may be appropriate are White Township-Belvidere Town, Pohatcong Township-Alpha Borough, Greenwich Township-Phillipsburg, Mansfield Township-Hackettstown, Independence Township-Hackettstown, and Washington Township-Washington Borough.

Regional TDR programs could also be instituted in Warren County. These may operate throughout the County or at a higher level of regional government. The New Jersey Highlands Council is currently establishing a regional TDR program that will be open to all Warren County municipalities. Through the Highlands program, landowners may sell the development rights on their lands at pre-Highlands Act prices. They will then be allocated to voluntarily designated receiving areas throughout the seven-county region. The sending areas and receiving area landowners are the active participants in the transaction. The Highlands TDR Bank will certify and record these transactions. The municipalities containing these receiving areas will have the right to assess impact fees of up to \$15,000 per unit for all new development. They will also be able to apply for grants to offset the costs associated with amending their master plans municipal ordinances. Warren County contains both areas that are suitable regional TDR sending areas, such as Franklin and Harmony Townships, and regional TDR receiving areas, such as Phillipsburg and Columbia.

In the future, the New Jersey TDR Bank will facilitate TDR activities Statewide. It plans to offer Planning Assistance Grants to municipalities looking to establish municipal TDR programs, and may provide funds for the purchase of development credits. The State TDR Bank will also provide financial banking on loans secured using development credits as collateral, and keep records of all development credit transfers within the State. The New Jersey Office of Smart Growth (OSG) also offers Smart Future Planning Grants to municipalities in order to help them plan for and implement TDR programs.

Oxford Township is currently the only municipality in Warren County seeking to develop and implement a TDR program. Oxford is attempting to establish a TDR receiving area on the site of an abandoned industrial site – the Oxford Furnace property – adjacent to its central business district. This 300-acre brownfield area would become the focus of a large redevelopment initiative aimed at bolstering economic activity in downtown Oxford. Oxford Township has received numerous grants to pursue their TDR program including a \$40,000 Planning Assistance Grant from the New Jersey State TDR Bank, a Highlands MP3 TDR Grant, and a \$65,000 Smart Future Grant from the New Jersey Office of Smart Growth. Oxford has also held pre-petition meetings in order to receive Plan Endorsement through the New Jersey State Planning Office. Oxford has suspended its pursuit of an intra-municipal TDR program until the Highlands regional TDR program is implemented.

How these Planning Tools are Used in Warren County

Municipalities in Warren County have utilized a variety of planning tools that seek to preserve agricultural and open space lands. Some towns have implemented zoning

ordinances that require or strongly encourage “clustering” that restricts development to a portion of the parcel in question. For example, if a 10-acre parcel is approved for a 10-unit development, a cluster zoning scheme would require the developer to set aside five acres for agriculture or open space and build up to ten homes on the remaining 5 acres. Density bonuses are often awarded to developers who agree to cluster units within their developments. Alpha Borough offers such a clustering provision while Blirstown Township requires that up to 70% of some parcels be preserved as open space or farmland. Knowlton has recently implemented similar, broad-reaching efforts to preserve land including levying an open space tax and “downzoning” residential lands.

Other municipalities in Warren County have utilized project-specific negotiations with developers to advance local initiatives. Pohatcong used non-contiguous density transfer to preserve one parcel of land while allowing the developer to apply the development rights from this parcel to another local project. Washington Borough used project-specific negotiation to produce a development plan that accommodated the preservation and recreation interests of the town while providing adequate building density to the builder. Clustering should be performed whenever possible in order to preserve the best and most productive agricultural land.

Farmland Preservation and Planning – Recommendations of the Warren CADB

As part of the overall farmland preservation effort in Warren County, clustering, non-contiguous clustering, lot size averaging and transfer of developments may be considered. In all of these techniques, the municipality must adopt an appropriate Master Plan and proper development ordinances to implement them. As a means to preserve farmland, the CADB supports these concepts particularly in times when the amount of funding is limited and the farmer cannot obtain an acceptable amount of money through the traditional purchase of development rights programs.

When using the clustering techniques and lot size averaging, the construction of new development on the parcels should be strategically placed whereby the resulting preserved farmland is next to farmland on adjacent parcels. This will ensure that contiguous farming can occur without interruption from development and can ultimately preserve larger amounts of contiguous farmland.

Where these planning techniques are being used, the municipality, with the assistance of their local farmland preservation committees and the CADB should plan ahead and identify the lands areas that should have the highest priority for preservation if a cluster or lot size-averaging plan is submitted for approval. Knowing this ahead of time will give the landowner positive guidance on how to layout the proposed development without infringing on the high priority farmland.

For transfer of development rights, the County Farmland Preservation Plan supports it in concept. Until a workable program is established by the State or the Highlands Council, TDR is not viable farmland preservation tool. The use of TDR as an intra municipal tool has merit, and is similar to clustering on non-contiguous parcels. Municipalities should

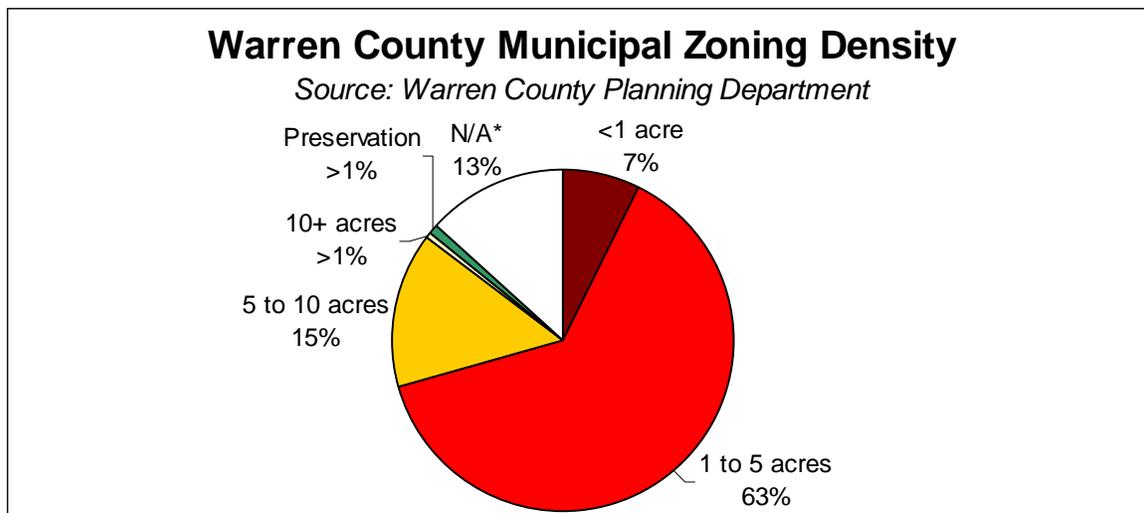
determine if intra-municipal TDR is appropriate for themselves. Municipalities that have public water and sewer and ample farmland should consider TDR as a way of maximizing the amount of farmland that could be preserved for less public taxpayer cost.

Making the planning techniques described above mandatory could help ensure the preservation of farmland. However, the CADB will not recommend that they become mandatory. Instead, the municipalities should fully evaluate the merits of mandatory vs. voluntary compliance and base their decision on what is best for them.

Where cluster developments exist or are permitted, the CADB may wish to consider assigning a higher rank to farms that are adjacent to properties that have preserved farmland through a cluster subdivision. This is similar to how it assigns a higher rank to applications next to properties already preserved. The CADB may also consider revising its criteria to give extra points to applications in municipalities that have clustering type ordinances with a higher point value assigned to those with mandatory clustering provisions.

Municipal Zoning

The majority of land in Warren County (161,513 acres) is zoned at densities between one and five acres per unit. Zoning densities of greater than one unit per acre tend to be concentrated within towns that have existing or proposed centers and wastewater treatment facilities such as Hackettstown, Phillipsburg and Allamuchy. Conservation zoning districts that allow for little to no development within them are utilized in some Warren County towns. However, many towns still permit significant development within these zones, and thus they do not appear under the “conservation” category in this chart. Large lot zoning of greater than five acres per development unit exists in many municipalities, but only Frelinghuysen and Knowlton use it on most of their land (see *Zoning* charts below).



This zoning scheme, where most of the County’s land is zoned between one and five acres, encourages growth of the sprawling, suburban landscape that Warren County is trying to

prevent. A zoning scheme that is more consistent with a centers-based land use pattern has more land designated as high density (<1 acre) near development centers and very low density (>10 acres) outside the centers. Some municipalities in Warren County have begun to adopt such a zoning scheme by utilizing natural resource features, such as nitrate dilution capacity, to establish appropriate development densities for agricultural and natural areas. Mixed-use, or “other”, zoning standards within existing centers may help encourage attractive and economically feasible land uses there while drawing development demand away from prime agricultural and natural resource lands. Intermediate zoning, between one and ten acres per development unit, is appropriate for some TDR receiving areas so that additional development credits can be applied to these lands. Also, conservation zoning should be applied to a broader range of preserved lands including local recreational areas, preserved farm belts, and natural resource lands.

WARREN COUNTY ZONING DENSITIES (ACRES)							
MUNICIPALITY	<1 Ac/Unit	1 to 5 Ac/Unit	>5 to 10 Ac/Unit	>10 Ac/Unit	Conservation	N/A*	Total
Allamuchy Township	6,828	472	5,798	0	0	0	13,099
Alpha Borough	361	331	40	26	55	285	1,098
Belvidere Town	752	4	0	32	47	115	950
Blairstown Township	143	19,641	0	0	0	0	19,784
Franklin Township	149	14,192	0	60	0	675	15,076
Frelinghuysen Township	0	7,014	8,264	0	0	0	15,278
Greenwich Township	468	288	0	0	778	5,244	6,778
Hackettstown Town	1,584	459	0	0	339	0	2,382
Hardwick Township	0	10,978	0	0	0	13,870	24,848
Harmony Township	0	14,961	0	0	0	188	15,149
Hope Township	113	11,396	0	0	0	0	11,508
Independence Township	255	9,124	3,193	0	0	188	12,759
Knowlton Township	469	698	15,113	0	0	0	16,280
Liberty Township	266	7,030	404	0	0	0	7,701
Lopatcong Township	1,081	2,033	922	388	0	0	4,424
Mansfield Township	1,053	17,669	0	0	0	292	19,014
Oxford Township	580	3,330	30	0	0	0	3,940
Phillipsburg Town	1,058	0	0	0	0	966	2,024
Pohatcong Township	0	0	0	0	622	8,171	8,793
Washington Borough	812	0	0	0	80	306	1,198
Washington Township	945	10,049	0	0	0	404	11,398
White Township	0	16,732	35	1,028	0	0	17,795
TOTAL	16,917	146,400	33,799	1,534	1,921	30,704	231,276
* Zoning densities not available or reported using other means, such as Floor-Area Ratios							
<i>Source: Warren County Planning Department</i>							

Development Pressure and Land Value Trends

Proposed Development Activity

The tables below show the proposed development activity from January 2000 through December 2007 as submitted to the Warren County Planning Board.

Proposed Subdivision Activity in Warren County by Region, 2000 through 2007							
	Number of Major Subdivision Applications	Number of New Lots	Land Area (acres)	Average Lot Size	Number of Minor Subdivisions*	Number of New Lots	Total Number of New Lots
Allamuchy	11	969	794	.83	15	35	995
Alpha	2	117	51	.44	14	37	154
Belvidere	2	20	15	.75	4	8	28
Blairstown	2	31	133	4.3	37	89	120
Franklin	15	181	940	5.2	18	40	221
Frelinghuysen	3	26	74	2.8	51	137	160
Greenwich	7	193	470	2.4	9	20	213
Hackettstown	2	277	117	.42	6	13	290
Hardwick	1	5	21	4.2	15	38	43
Harmony	3	333	261	.78	34	89	422
Hope	2	13	82	6.3	12	29	42
Independence	8	165	548	3.3	25	63	228
Knowlton	1	7	41	5.9	32	89	96
Liberty	6	100	410	4.1	19	44	144
Lopatcong	11	646	679	1.1	23	51	697
Mansfield	7	322	464	1.4	28	64	386
Oxford	2	48	90	1.9	16	35	83
Phillipsburg	5	41	214	5.2	28	65	98
Pohatcong	3	734	203	3.6	22	43	777
Washington Borough	3	38	20	1.9	6	11	49
Washington Township	9	300	956	3.2	35	83	383
White	2	20	154	7.7	35	92	112
Total:	107	4,574	6,738		489	1,175	5,749

* Land area acreage for minor subdivisions is unavailable

Proposed Site Plan Activity in Warren County by Region, 2000 through 2007						
	Number of Major Site Plans	New Square Footage (Non-Residential)	Land Area (acres)	Number of New Residential Units	Number of Minor Site Plans	Number of Square Feet
Allamuchy	2	0	219	541	7	8,672
Alpha	6	149,850	30	0	14	9,692
Belvidere	1	0	43	259	4	2,880
Blairstown	13	205,428	441	0	14	11,238
Franklin	10	422,325	30	0	8	8,300
Frelinghuysen	3	71,650	267	0	9	10,249
Greenwich	17	1,363,092	741	0	20	27,685
Hackettstown	28	1,058,529	164	117	10	28,176
Hardwick	3	30,537	130	0	12	16,973
Harmony	11	418,423	362	0	9	26,960
Hope	5	98,620	141	0	7	13,542
Independence	8	204,972	436	0	9	14,704
Knowlton	2	10,790	23	0	6	12,866
Liberty	0	0	0	0	0	0
Lopatcong	13	765,377	465	414	20	41,083
Mansfield	14	467,867	173	0	17	18,755
Oxford	0	0	0	0	1	30
Phillipsburg	17	168,639	46	496	17	49,710
Pohatcong	6	344,432	100	0	22	7,172
Washington Borough	5	34,270	161	376	9	6,089
Washington Township	8	166,329	295	10	13	41,868
White	9	167,196	709	379	18	34,480
Total	181	5,931,503	4,976	2,164	246	391,124

Reviewing the two tables above indicate that in terms of land consumption for major new development, over 1,000 acres in Washington Township, Greenwich, Lopatcong, and Allamuchy, were proposed to be developed since the year 2000. Washington Township is the highest. Through the efforts of Washington Township officials, 150 acres of farmland that was proposed for residential development was acquired for farmland preservation. Aside from this tract most of the land being converted to development is occurring in the Musconetcong Valley on individual on site septic systems

Allamuchy, Lopatcong, Pohatcong, Phillipsburg, and White are the top five municipalities for the number of residential units proposed through subdivision and site plan applications. In Allamuchy, the high number is the result of the Panther Valley and adjacent land areas off of County 517 building out. In Lopatcong, most of the development applications proposed have been approved and were built. This is shown in the Residential Building

Permit Table below. The proposed development in Pohatcong is from two major applications located on County Route 642. One is to meet affordable housing requirements and the other is for adult housing. In White, most of the new development is located within the adult housing development on County Route 519.

Greenwich, Hackettstown, Lopatcong, and Mansfield have the most square-footage proposed for non residential development. Most of Greenwich's proposed development has been built in the shopping centers located on Rt. 22 and in Medarex off of Rt. 173. Hackettstown's development is occurring on Mountain Avenue, CR 604 and CR 666 through the construction of offices, retail, and the hospital expansion. Most of Lopatcong's non-residential development has been for the Phillipsburg High School, the Elementary School, a church and self storage facility. In Mansfield, most of the square footage proposed was on Rt. 57. Another application in Mansfield was for an expansion to an industrial facility located in the Highlands Preservation Area. Due to limitations on the amount of additional impervious cover in the Preservation area, the site plan was not approved by the NJDEP. In Pohatcong, major development proposals in Pohatcong Township is to construct a Super Wal-Mart on the vacant Laneco property and a Raymor Flanigan on the former Holiday Inn. Both are redevelopment projects.

The table and chart below show the number of residential building permits issued in Warren County from 1999 through 2007. By a significant number, Lopatcong experienced the greatest amount of residential growth in Warren County, surpassing White Township by almost 500 housing units. Greenwich, Hackettstown, Allamuchy and Washington Township rounded out the top five respectively. It should be noted that most of the residential growth in these municipalities is occurring in areas within existing and planned central sewer service areas.

In addition, and perhaps most striking, is significant downturn in the number of permits issued in 2007. This is the lowest number (261) since 1992 when the total number of residential permits issued was 288. In 1990 and 1991, the total number issued was 227 and 196 respectively.

Summary of Future Trends

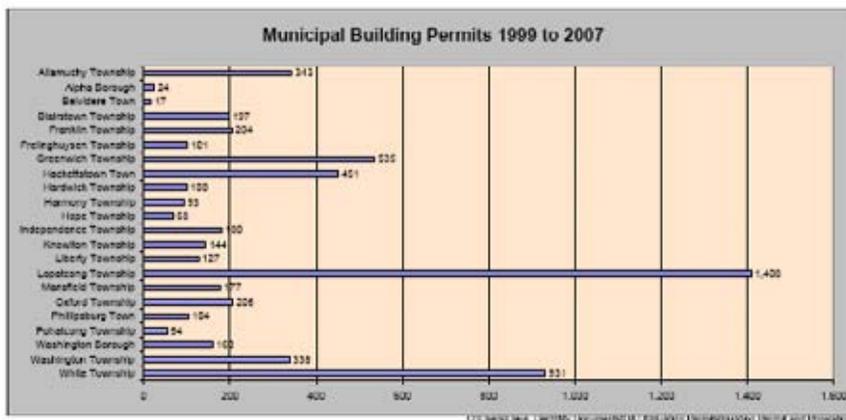
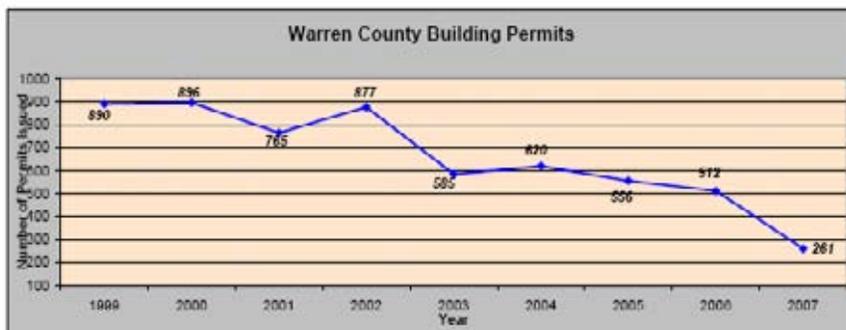
It is likely that the trend may continue over the next several years because the number of lots proposed from major final subdivisions and minor subdivisions have decreased from 450 to 600 lots per year from 2003 through 2005, to 263 lots and 283 lots for the years 2006 and 2007 respectively.

For non-residential development, while the number of square feet proposed is relatively consistent year to year, averaging around 850,000 sq.ft. per year, most of the new major development is occurring along the State Highways within sewer service areas. As stronger environmental regulations come into play, Warren County will probably see more brownfield redevelopment and more commercial/office development occurring within the tradition urban centers of Hackettstown, Washington Borough and Phillipsburg.

Building Permits

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Total
Allamuchy Township	27	13	11	4	32	19	51	180	6			343
Alpha Borough	7	1	3	1	4	1	1	3	3			24
Belvidere Town	4	1	5	0	1	1	2	1	2			17
Blairstown Township	32	28	29	23	15	13	18	26	13			197
Franklin Township	31	57	56	25	13	9	8	4	1			204
Frelinghuysen Township	13	6	8	12	12	12	12	13	13			101
Greenwich Township	236	129	83	39	15	19	12	2	0			535
Hackettstown Town	56	111	3	22	13	56	74	62	54			451
Hardwick Township	15	15	17	7	14	7	10	8	7			100
Harmony Township	6	5	11	12	10	12	27	6	4			93
Hope Township	8	7	14	4	5	11	7	5	7			68
Independence Township	58	30	21	10	11	12	14	11	13			180
Knowlton Township	23	10	12	19	22	24	14	10	10			144
Liberty Township	15	15	12	23	15	22	10	11	4			127
Lopatcong Township	116	246	231	392	108	128	113	45	29			1,408
Mansfield Township	28	28	24	25	25	13	21	7	6			177
Oxford Township	57	49	38	21	14	13	5	4	5			206
Phillipsburg Town	9	11	9	5	3	11	10	21	25			104
Pohatcong Township	3	1	4	2	8	9	10	9	8			54
Washington Borough	2	0	20	37	46	30	10	3	12			160
Washington Township	16	15	34	72	82	73	28	6	12			338
White Township	128	118	120	122	117	125	99	75	27			931
County Total	890	896	765	877	585	620	556	512	261	0	0	5,962

Source: US Bureau of the Census, Manufacturing & Construction Division



Land Value Trends

For many years land values in Warren County reflected the real estate market in general. Annual increase in value was the norm but starting from a significantly lower base than the neighboring counties to the east. With the enactment of the *Highlands Water Protection and Planning Act* of 2004 that general characterization was voided. Essentially Warren County was divided into three distinctly different value zones. Those zones are the Highlands Preservation Area, The Highlands Planning Area, and the non-Highlands or Skylands Area.

As part of its function of administering the farmland preservation program, the Warren County Land Preservation Department has been tracking and charting appraisal values since the enactment of the Highlands Act (*see Appendix - Farmland Property Value Analysis*). This chart reflects the statutory pre Highlands value and current values of both fee simple and purchase of development easement acquisition. It reveals trends in each of the three zones as follows:

1. Skylands - While there is sparse charted data on farms in this area, a significant number of Municipal Planning Incentive Grant projects have been processed and reveal, in both pre Highlands and current values, fairly significant and consistent increases in value.
2. Planning Area - Some minor variations and minor reduction in value.
3. Preservation Area - Minor value increases in pre Highlands values but drastic reductions in current, ***with a number of easement values reducing to zero.***

It is quite clear that without the protection of pre Highlands valuation, farms in the Preservation Area would face extreme financial difficulty.

Since there was no “traditional” round in 2007 (which would have been designated as 2009 Round for funding purposes), no appraisals of farm values were done. The effect of the slumping real estate market, therefore, could not be factored into the analysis.

¹ Warren County, New Jersey Planning Department. Warren County Strategic Growth Plan. October 2005.

² Workforce New Jersey Public Information Network. Labor Market Information Website: <http://www.wnjp.in.net/OneStopCareerCenter/LaborMarketInformation/lmi01/poptrd6.htm> . Accessed July 5, 2007.

³ United States Census Bureau. American Factfinder – Warren County, New Jersey. www.factfinder.census.gov . Accessed July 5, 2007.

⁴ Lathrop, R. Land Use / Land Cover Update to Year 2000/2001. Center for Remote Sensing and Spatial Analysis – Cook College, Rutgers University. 2004.

⁵ Warren County Health Department. Environmental Health Assessment and Improvement Plan. 2002.

⁶ New Jersey State Planning Commission. New Jersey State Development and Redevelopment Plan. March 2001.

⁷ New Jersey Highlands Council. Draft Highlands Regional Master Plan. November 2006.

⁸ Highlands Sustainable Agriculture Technical Report. January 2007.

⁹ Warren County Planning Department. *Warren County Strategic Growth Plan*. Belvidere, NJ. 2005.

¹⁰ New Jersey Statutes Annotated 40:55D: *Municipal Land Use Law*.

CHAPTER 4: FARMLAND PRESERVATION PROGRAM – OVERVIEW



Farmland is an irreplaceable natural resource; once lost it cannot be recreated or replaced. The farmers who work the land are not only stewards of the agricultural landscape of Warren County, but they are also the stewards of the rural heritage and legacy that defines the County and its environs. The business of agriculture supports the local economy and provides a unique and bucolic quality for residents. Agriculture provides food and fiber, clean air, storm water management, groundwater recharge, wildlife habitat, and the beautiful scenic vistas that surround the County's mountain and rivers.

Since 1986 Warren County has permanently preserved **15,125 acres** of farmland. The first farm preserved by the Warren County Board of Chosen Freeholders was the Gibbs in Allamuchy Township. Farmers and local officials in Warren County remain firmly committed to farmland protection and continue to support the preservation of agricultural land throughout the County.

Agricultural Development Areas (ADAs)

The Warren County Agriculture Development Board (CADB) developed the Warren County Agricultural Development Area (ADA) based upon both statutory and county criteria. The ADA designates land that has the potential for long-term agricultural viability. This agricultural use would be the preferred, but not the exclusive, use.

Statutory Criteria:

- The land must be agriculturally productive or have future production potential. Also, zoning for the land must permit agriculture or permit it as a nonconforming use.
- Suburban and/or commercial development must be reasonably non-existent in the ADA area.
- The land must comprise no greater than 90% of the agricultural land mass of the County.
- Any attributes deemed appropriate by the Board must also be incorporated.

Prior to this year, the entire county had been designated as being part of the Agricultural Development Area (ADA) with the exceptions of Hackettstown, Belvidere, Phillipsburg, and Washington Borough. As part of this Comprehensive Farmland Preservation Plan, the Warren CADB has updated their ADA designating land capable of supporting agricultural

and excluding those lands that are protected as public open space, developed areas, and land contained within the developed Boroughs and Towns located within the County.

Utilizing the state's regulatory criteria for designating an ADA and existing farmland assessment data, the County delineated an ADA on a county-wide basis that does not exceed 90% of the County's agricultural land base. A map of the ADA is included in the *Maps Section* of this Plan.

County Criteria:

- Land is currently in agricultural production or has strong potential for agricultural production or is farm assessed through a woodland management plan.
- Agriculture is the preferred, but not necessarily the exclusive use.
- Agriculture is a use permitted by current municipal zoning ordinance or is allowed as a non-conforming use.

Overall, there are 113,191ⁱ acres of farm assessed parcels in Warren County. Of this, 96,547 acres of farm assessed land is included within the ADA, or 85% of Warren County is within the ADA. The Warren CADB approved the ADA at the public hearing held on Thursday, October 18, 2007. The SADC will review the County's ADA and upon their approval, issue final certification of the ADA.

Description of the Warren County ADA

The ADA for Warren County includes productive agricultural lands, soils, preserved farms, and farms enrolled in the 8-year program throughout the County. In general, it excludes publicly preserved open space and populous regions of Warren County. Areas ***excluded*** from the Warren County ADA in their entirety include:

- 1) Phillipsburg
- 2) Merrill Creek Reservoir
- 3) Belvidere
- 4) Washington Borough
- 5) Hackettstown
- 6) Lopatcong
- 7) Pequest Wildlife Management Area (WMA)
- 8) Jenny Jump State Forest
- 9) Oxford Township

On the following pages is a detailed description of other areas ***excluded*** from the Warren County ADA. The ADA is shown on the *Agricultural Development Area Map* included with this Plan.

Other areas excluded from the Warren County ADA are:

- 1) All lands in Pohatcong and Alpha Borough north of Interstate 78 from the Delaware

ⁱ *Note:* For the ADA and Project Area analyses the farmland assessed data is derived from the GIS digital data, which is slightly different from that provided by the Warren County Tax Assessor Office (*Chapter 1*).

River east to its intersection with Carpentersville Road, north of Carpentersville Road, to its intersection with High Street, north of High Street to the municipal boundary with Alpha Borough, south and west along this municipal border to its intersection with I-78, north of I-78 to its intersection with Edge Road, along Edge Road to its intersection with SR-122, east along SR-122 to its intersection with the Greenwich Township border, to SR-173, and south and east along SR-173 to its intersection with South Main Street (CR-637) in Greenwich Township.

- 2) All lands in Greenwich Township west of the intersection of SR-173 and CR-637, north along CR-637 to the Pohatcong Creek, west of Block 34, Lot 11, to the intersection with I-78, along I-78 to the municipal boundary with Pohatcong Township, north to CR-638, along CR-638 to the western boundary of Block 23 Lots 31, 32, and 10, along the northern boundary of Block 23, Lot 10 to the intersection of Block 23, Lot 8, to the intersection of SR-57, along SR-57 to CR-637, south along CR-637 to Edison Avenue, east along Edison Avenue and along the southern boundary of Block 13, Lot 17 to Stewart Street, north on Stewart Street to the intersection of SR-57, east along SR-57 to the intersection with Richline Hill Road, north along Richline Hill Road until it meets the Greenwich Township municipal boundary.
- 3) All land in Mansfield Township southeast of the intersection of the Mansfield-Hackettstown border and CR-629 and running along CR-629 southwest to its intersection with Allen Road, on Allen Road southeast to the Musconetcong River.
- 4) All land in Allamuchy Township east of the Allamuchy-Independence border on CR-613 and running to its intersection with CR-615, north on CR-615 to its intersection with the former Conrail Railroad right-of-way, to its intersection with CR-612, east on CR-612 to its intersection with CR-517, north on CR-517 to the Sussex County border.
- 5) All land in Independence Township east of the intersection of CR-613 and the border of Allamuchy Township, west to Ryan Road, southwest on Ryan Road to its intersection with CR-614, west on CR-614 to its intersection with US-46, east on US-46 to its intersection with Barkers Mill Road, south on Barkers Mill Road to its intersection with Cemetery Road, west on Cemetery Road to its intersection with the Pequest River, on the Pequest River to its intersection with the Independence Township border.
- 6) All land in Independence Township north of the former Conrail right-of-way to the boundary of Block 29, Lot 27, north along the eastern boundaries of Block 29, Lots 26, 25, and 54 to Shades of Death Road, west on Shades of Death Road to the boundary with Liberty Township line.
- 7) All land in Liberty Township east of CR-611, to the intersection of Shades of Death Road, and north of Shades of Death Road to the boundary with Independence Township.

- 8) All land in Knowlton Township north and east of the Delaware River and running east on Stony Brook to its intersection with Hainesburg River Road, east on Hainesburg River Road to its intersection with Hemlock Road, north on Hemlock Road to its intersection with the property boundary between Block 3, Lot 7 and Block 3, Lot 5.03 with Block 3, Lot 7 excluded from the ADA. Continuing north along this line to its boundary with Worthington State Forest, north along the State Forest, south at the intersection of Block 3, Lot 3 and Block 3, Lot 2, with Lot 2 excluded from the ADA, south to Mount Pleasant Road then west on Mount Pleasant Road to its intersection with Wishing Well Road, east on Wishing Well Road into Blirstown Township.
- 9) All land in Blirstown Township north and west of Wishing Well Road to its intersection with Frog Pond Road, south on Frog Pond Road to its intersection with Benton Road, south on Benton Road to its intersection with NJ-94, northeast on NJ-94 to its intersection with Cobblewood Road, north on Cobblewood Road to its intersection with Mohican Road, north on Mohican Road to its intersection with Johnsonburg Creek and east to Maines Lane near its intersection with Millbrook Road in Hardwick Township
- 10) All land in Hardwick Township northeast of Maines Lane to its intersection with Millbrook Road, north on Millbrook Road to its intersection with Johnsonburg Creek, northeast along Johnsonburg Creek to its intersection with Sand Pond Road, east on Sand Pond Road to Shannon Road to its intersection with Millbrook-Stillwater Road, south on Millbrook-Stillwater Road to its intersection with Sunset Lake Road, south on Sunset Lake Road to its intersection with Spring Valley Road, south on Spring Valley Road to its intersection with Primrose Road, north on Primrose Road to its intersection with Old Orchard Road, east on Old Orchard Road to its intersection with the Hardwick-Frelinghuysen border (Paulins Kill), north on the Hardwick-Frelinghuysen border to the Warren-Sussex County border.
- 11) All land in Frelinghuysen Township south and east at the intersection between the Frelinghuysen-Stillwater (Sussex County) border and Henfoot Road to its intersection with Stillwater Road, south on Stillwater Road to its intersection with Lincoln Laurel Road, southwest on Lincoln Laurel Road to its intersection with NJ-94, east on NJ-94 to its intersection with CR-661, south on CR-661 to its intersection with Old State Road, along the northeastern border of Block 1201 Lots 13.01 and 13, and along the southeastern border of Block 1201, Lot 13 to the Lackawanna Railroad Cut-Off, east along this right of way to the intersection of CR-519, along CR-519 to the southwestern border of Block 1201, Lot 34, and all land north of Block 1201, Lots 34, 38 and 40 to the Warren-Sussex County border.
- 12) All land in White Township west CR-620 and the Belvidere border east to the intersection of the White-Pequest border and US-46, west on US-46 to the White Township border.

- 13) All land in Washington Township beginning at the intersection of Cemetery Hill Road and the Franklin/Washington Township border and running along Cemetery Hill Road south to Lincoln Avenue to the Washington Township/Washington Borough border onto Washburn Avenue (CR-630), east to the municipal border, along the border north and then west to its intersection with NJ-31, north along NJ-31 to its intersection with CR-628, southwest on CR-628 to its intersection with NJ-57, southwest on NJ-57 to its intersection with the Franklin/Washington border, to its intersection with Cemetery Hill Road.

Farmland Preserved to date by program and municipality

The Warren County Board of Chosen Freeholders created the Warren County Agriculture Development Board (CADB) in 1986. In 1983, the New Jersey State Legislature adopted the State Agriculture Retention and Development Act and created the State Agriculture Development Committee (SADC), which provides funding for farmland preservation programs, establishes farmland preservation policy statewide, and oversees program administration.

As of July 1, 2007, there are 150 permanently preserved farms in Warren County, permanently protecting 15,125 acres. Sixteen towns in Warren County have preserved farmland. The County has spent a total of \$18,591,819 to protect farmland in the County, just under 30% of the total cost share. The cost per acre varies throughout the County, but on average, over the course of the program, the average cost per acre is \$4,527 (see below Table).

Township	Acres	Farms Per Town	Total Cost	State Cost	County Cost	Cost Per Acre
Allamuchy	2,043	11	\$7,864,993	\$4,758,307	\$3,108,687	\$3,850
Alpha	122	2	\$656,992	\$438,408	\$218,584	\$5,378
Belvidere	3	1	\$15,459	\$10,600	\$5,198	\$5,500
Blairstown	1,211	12	\$4,746,836	\$2,316,202	\$1,600,245	\$3,920
Franklin	1,961	22	\$8,768,164	\$5,775,652	\$2,619,786	\$4,471
Frelinghuysen	1,433	16	\$4,426,145	\$2,472,083	\$1,959,464	\$3,088
Greenwich	425	5	\$2,326,949	\$692,989	\$1,526,960	\$5,472
Hardwick	203	4	\$955,619	\$384,936	\$420,845	\$4,706
Harmony	1,273	10	\$6,454,485	\$3,097,536	\$860,709	\$5,070
Hope	382	5	\$1,541,537	\$838,430	\$603,107	\$4,037
Independence	352	4	\$1,420,481	\$805,795	\$614,687	\$4,038
Knowlton	1,596	15	\$5,392,939	\$3,666,119	\$825,564	\$3,379
Mansfield	610	5	\$1,668,501	\$1,203,614	\$270,167	\$2,736
Pohatcong	1,784	11	\$9,832,008	\$5,785,156	\$1,707,427	\$5,511
Washington	1,228	12	\$10,627,446	\$6,489,434	\$1,691,272	\$8,657
White	498	6	\$2,255,316	\$1,695,861	\$559,117	\$4,527
County Total:	15,125		\$68,953,872	\$40,431,121	\$18,591,819	\$4,559

On the following pages is a table detailing the farmland preservation program history in Warren County. Allamuchy Township has the highest amount of preserved farmland

(2,043 acres), with Blairstown (1,211 acres), Franklin (1,961 acres), Frelinghuysen (1,433 acres), Harmony (1,273 acres), Knowlton (1,596 acres), Pohatcong (1,784 acres) and Washington Township (1,228 acres) each all over 1,000 acres of preserved farmland.

Farm	Township	Acres	Total Cost	State Cost	County Cost	Cost Per Acre	Year Purchased
Gibbs Farm #1	Allamuchy	287	\$1,338,698	\$1,070,959	\$ 267,740	\$4,658	1989
Gibbs Farm #2	Allamuchy	290	\$ 1,101,340	\$881,072	\$220,268	\$3,798	1989
Total 1989:		577	\$2,440,038	\$ 1,952,031	\$ 488,008	\$4,226	
Steinhardt / Bogyos	Franklin	191	\$661,464	\$ 429,952	\$ 231,512	\$3,467	1991
Caputo / Tucker	Washington Twp	147	\$1,671,686	\$1,003,012	\$ 668,674	\$11,381	1991
Total 1991:		338	\$2,333,150	\$1,432,963	\$ 900,187	\$6,910	
Leyburn, Robert	Franklin	58	\$ 315,522	\$189,313	\$ 126,209	\$ 5,400	1992
Schnetzer Farms	Franklin	50	\$ 257,217	\$154,330	\$102,887	\$ 5,131	1992
Schnetzer Farm	Washington Twp	68	\$ 324,781	\$ 189,754	\$ 135,028	\$ 5,131	1992
Total 1992:		176	\$897,520	\$533,397	\$364,123	\$5,086	
Gibbs, James	Allamuchy	432	\$1,433,494	\$1,146,795	\$286,699	\$ 3,319	1993
Fox / Engborg	Franklin	98	\$353,412	\$229,718	\$ 123,694	\$ 3,600	1993
Jelliffe, Myrtle	Washington Twp	78	\$329,056	\$197,433	\$131,622	\$4,195	1993
Total 1993:		608	\$2,115,962	\$1,573,946	\$542,015	\$3,478	
Schnetzer Estate	Franklin	18	\$ 82,724	\$46,293	\$ 36,431	\$ 4,579	1994
Schnetzer Estate	Washington Twp	3	\$15,221	\$8,518	\$ 6,703	\$ 4,579	1994
Total 1994:		21	\$97,945	\$54,811	\$ 43,134	\$4,579	
Schnetzer, Marie	Franklin	127	\$465,500	\$ 319,992	\$145,508	\$ 3,680	1995
Cummins, George	Independence	104	\$ 482,131	\$330,311	\$ 151,820	\$ 4,655	1995
Makarevich, Gene	Knowlton	171	\$ 538,489	\$391,473	\$ 147,016	\$ 3,150	1995
Millheim Estate	Knowlton	161	\$479,358	\$351,691	\$127,667	\$ 2,970	1995
Terpstra, Orrie	Knowlton	109	\$ 338,799	\$246,995	\$91,804	\$ 3,100	1995
Total 1995:		672	\$ 2,304,277	\$1,640,462	\$663,815	\$3,430	
Semanchik Estate	Allamuchy	19	\$ 99,179	\$ 66,431	\$ 32,748	\$ 5,300	1997
Oostdyk, John	Franklin	138	\$ 525,601	\$ 370,687	\$ 154,914	\$ 3,800	1997
Trout, Henry	Franklin	159	\$ 545,192	\$390,881	\$ 154,312	\$ 3,419	1997
Risko, Louis	Harmony	97	\$ 158,623	\$126,898	\$ 31,724	\$ 1,633	1997
Total 1997:		414	\$1,328,595	\$954,897	\$ 373,698	\$3,212	
Genesis Farm	Frelinghuysen	139	\$ 318,916	\$237,107	\$ 81,809	\$ 2,300	1998
Moore, Chan	Frelinghuysen	72	\$186,009	\$137,361	\$ 48,649	\$ 2,600	1998
Jozwik / Suk	Knowlton	169	\$ 400,546	\$297,071	\$ 103,474	\$2,400	1998
Corestates	Pohatcong	561	\$3,250,000	\$1,910,964	\$400,000	\$ 5,794	1998
Total 1998:		940	\$4,155,471	\$2,582,503	\$ 633,932	\$4,420	
McShane / Semanchik, K.	Independence	109	\$ 401,113	\$ 284,032	\$ 117,082	\$ 3,686	1999
Baldwin / Warren County	Mansfield	139	\$ 630,000	\$461,007	\$ 112,662	\$ 4,532	1999
Total 1999:		248	\$ 1,031,113	\$745,039	\$ 229,744	\$ 4,151	
Anisfield / Gibbs	Allamuchy	237	\$ 720,988	\$533,575	\$ 187,413	\$3,045	2000
Csiszlak, John	Alpha	100	\$518,005	\$348,658	\$ 169,348	\$ 5,198	2000
Schneiber, Harry	Belvidere	3	\$ 15,459	\$10,600	\$ 5,198	\$ 5,500	2000
Gouger, Mary	Blairstown	113	\$315,338	\$231,610	\$ 83,727	\$ 2,784	2000
Teel, Gloria	Blairstown	124	\$ 371,334	\$ 272,312	\$99,022	\$ 3,000	2000
Augusta, Joseph	Franklin	111	\$345,640	\$ 257,114	\$ 97,526	\$ 3,200	2000
Bennett, Thomas	Frelinghuysen	90	\$ 269,292	\$ 197,481	\$ 71,811	\$ 3,000	2000
Young, Joseph	Frelinghuysen	65	\$ 225,852	\$ 161,323	\$ 64,529	\$ 3,500	2000

Farmland Preservation in Warren County – Program History

Farm	Township	Acres	Total Cost	State Cost	County Cost	Cost Per Acre	Year Purchased
Heeres, Harold	Harmony	144	\$ 469,521	\$ 339,500	\$ 130,021	\$ 3,250	2000
Hengst Farm	Harmony	121	\$ 1,125,000	\$ 660,383	\$ -	\$ 5,567	2000
Vegh Brothers	Harmony	110	\$ 351,514	\$ 254,847	\$ 96,666	\$ 3,194	2000
Durholz	Knowlton	63	\$ 152,822	\$113,239	\$ 39,583	\$ 2,440	2000
Kayhart / Watters	Mansfield	171	\$ 512,704	\$ 374,316	(twp)	\$ 3,003	2000
Yentema, Peter	Mansfield	102	\$ 336,587	\$ 242,750	\$ 93,836	\$ 3,300	2000
Csiszlak, John	Pohatcong	61	\$ 315,873	\$ 212,607	\$ 103,266	\$ 5,198	2000
Frey Living Trust	Pohatcong	94	\$468,880	\$318,838	\$ 150,042	\$ 5,000	2000
Blazier	Washington Twp	136	\$750,000	\$ 419,724	\$ -	\$ 5,512	2000
Schneider, Harry	White	28	\$154,612	\$102,285	\$51,988	\$ 5,500	2000
Total 2000:		1,871	\$ 7,419,420	\$5,051,161	\$ 1,443,978	\$3,965	
Tranquility Farms	Allamuchy	203	\$997,592	\$775,054	\$ 222,538	\$ 3,400	2001
Pehowski	Blairstown	161	\$ 742,610		\$ 742,610	\$ 4,600	2001
Arvystas	Franklin	49	\$ 229,275	\$ 154,151	\$ 75,124	\$ 4,700	2001
Fischer-Bigelow, Barbara	Franklin	13	\$ 52,874	\$ 26,815	\$ 26,059	\$ 4,111	2001
Joseph, Peter	Franklin	86	donation	\$ -	\$ -	\$ -	2001
Smolha / Lolos	Frelinghuysen	51	\$ 162,963	\$ 118,148	\$ 44,815	\$3,200	2001
Parrott / Simonetti	Frelinghuysen	117	\$ 203,465	\$153,729	\$ 49,736	\$ 1,739	2001
Smolha / Feldman	Frelinghuysen	103	\$289,069	\$ 212,672	\$ 76,397	\$ 2,800	2001
Smolha, Jean	Frelinghuysen	79	\$ 236,145		\$ 236,145	\$ 3,000	2001
Fischer-Bigelow, Barbara	Harmony	176	\$ 722,408	\$ 366,364	\$ 356,044	\$ 4,111	2001
MacQueen, William	Harmony	55	\$ 299,844	\$136,293	\$ 163,551	\$ 5,500	2001
Santini, Santino	Pohatcong	75	\$ 602,264	\$319,953	\$ 282,311	\$ 8,000	2001
Kingsbury, Robert	Washington Twp	135	\$ 471,811	\$320,831	\$150,979	\$ 3,500	2001
Marra	Washington Twp	97	\$ 173,716	\$131,252		\$ 1,800	2001
McDonough	Washington Twp	188	\$ 1,034,817	\$1,034,817	\$ -	\$ 5,500	2001
Total 2001:		1,587	\$ 6,218,853	\$3,750,079	\$ 2,426,310	\$3,918	
Bockbrader, Kathleen	Allamuchy	86	\$ 181,881	\$137,978	\$ 45,903	\$2,100	2002
Bockbrader, Ronald	Allamuchy	141	\$271,190	\$146,443	\$ 124,747	\$ 2,000	2002
Handel, Marjorie	Blairstown	98	\$410,117	\$284,220	\$125,897	\$4,291	2002
Schuster, John	Franklin	184	\$ 1,010,856	\$661,651	\$ 349,205	\$ 5,500	2002
Magyar	Harmony	130	\$ 988,591	\$988,591	\$ -	\$ 7,625	2002
Oberly, Clifford	Greenwich	130	\$ 739,440	\$ 440,200	\$ 299,240	\$ 5,688	2002
Tom	Greenwich	46	\$ 252,789	\$252,789	\$ -	\$ 5,436	2002
Walters	Knowlton	149	\$ 472,765	\$472,765	\$ -	\$3,166	2002
Gambino	Pohatcong	100	\$ 500,015	\$500,015	\$ -	\$ 5,000	2002
Smith, Mary	Pohatcong	188	\$ 914,039			\$5,060	2002
Snyder	Pohatcong	86	\$ 293,780	\$ 293,780	\$ -	\$3,400	2002
Total 2002:		1,338	\$ 6,035,463	\$4,178,432	\$944,998	\$ 4,469	
Braun	Blairstown	41	\$ 111,310	\$82,119	\$ 29,191	\$ 2,700	2003
Dukes	Blairstown	67	\$ 200,541	\$147,057	\$ 53,484	\$ 3,000	2003
Flitcroft	Blairstown	1	\$ 3,719	\$ 2,387	\$ 1,331	\$3,100	2003
Mowbray	Blairstown	81	\$218,981	\$ 57,584	\$ 161,397	\$ 2,700	2003
Dischler, Est. of Robert	Franklin	28	\$147,011	\$98,468	\$ 48,543	\$ 5,300	2003
Gurba, Stephen #1	Frelinghuysen	179	\$ 679,790		\$ 679,790	\$ 3,800	2003
Silverside	Frelinghuysen	49	\$ 161,799	\$ 161,799	\$ -	\$ 3,300	2003
Staufenberger	Frelinghuysen	125	\$ 463,233	\$328,019	\$ 135,214	\$ 3,700	2003
Estate of Rinehart	Greenwich	107	\$ 816,605		\$709,605	\$7,600	2003
Estate of Rinehart #2	Greenwich	68	\$ 518,115	\$ -	\$ 518,115	\$ 7,600	2003
Motyka (RVC)	Hope	78					2003

Farmland Preservation in Warren County – Program History

Farm	Township	Acres	Total Cost	State Cost	County Cost	Cost Per Acre	Year Purchased
Nykun, Peter	Independence	93	\$ 399,633	\$191,452	\$208,181	\$ 4,300	2003
Flitcroft, David	Knowlton	172	\$ 533,645	\$ 342,566	\$ 191,079	\$ 3,100	2003
Hillyerd (KnowltonDirect)	Knowlton	84	\$ 320,500			\$ 4,088	2003
Ridgewood Hunt Club	Knowlton	311	\$ 1,120,885	\$1,120,885	\$ -	\$ 3,600	2003
Munniksmas, George	Mansfield	37	\$ 189,210	\$125,541	\$63,669	\$5,100	2003
Munniksmas, George	Washington Twp	61	\$ 320,016	\$ 212,311	\$107,705	\$ 5,100	2003
Total 2003:		1,583	\$ 6,204,992	\$2,870,188	\$2,907,304	\$ 3,920	
Ervey, Joyce	Allamuchy	224	\$ 896,868		\$ 896,868	\$ 4,000	2004
Gurba, Stephen #2	Allamuchy	26	\$ 88,298		\$ 88,298	\$ 3,400	2004
Oberly, Jack	Alpha	23	\$ 138,987	\$ 89,751	\$ 49,236	\$ 6,175	2004
DeBlock/ Blairstown Twp	Blairstown	165	\$ 1,069,543	\$ 822,725		\$ 6,500	2004
Round Hill Farm (RVC)	Blairstown	42	\$ 260,888	\$ -	\$ 56,172	\$ 6,250	2004
Falk, Norman	Franklin	45	\$ 234,489	\$ 139,791	\$94,697	\$ 5,200	2004
Warren Rod & Gun Club	Franklin	92	\$ 422,289	\$290,351	\$ 131,938	\$ 4,568	2004
Gurba, Stephen #2	Frelinghuysen	88	\$ 299,115		\$ 299,115	\$ 3,400	2004
Westbrook, Jacob	Frelinghuysen	8			\$ 5,402		2004
Rayna	Greenwich	74					2004
Joseph P. Young & Son, Inc.	Hardwick	77	\$ 383,730	\$158,097	\$ 225,633	\$ 5,000	2004
Round Hill Farm	Hardwick	27	\$ 171,069	\$ -	\$ 36,828	\$6,250	2004
William Vosper	Hardwick	92	\$ 379,572	\$226,839	\$ 152,733	\$ 4,113	2004
F. Santini	Harmony	55					2004
Zahn / Aguero	Knowlton	29	\$99,834	\$ 71,641	\$ 28,193	\$ 3,400	2004
Smith, E. R. Estate	Mansfield	161					2004
Chelsea Forge Vintners	Pohatcong	69	\$ 320,839	\$ 208,720	\$ 46,687	\$ 4,673	2004
Horizon Associates	Pohatcong	101	\$ 426,033	\$293,489	\$ 132,544	\$ 4,500	2004
Marchesi	Pohatcong	18	\$ 95,877	\$64,218	\$15,829	\$ 5,300	2004
Oberly, Jack	Pohatcong	122	\$ 755,839	\$488,082	\$ 267,757	\$ 6,175	2004
Willard, Donald	Pohatcong	50	\$ 317,470	\$204,101	\$ 56,684	\$ 6,300	2004
Willard, Donald #2	Pohatcong	240	\$ 1,441,488	\$888,918	\$ 228,236	\$ 6,000	2004
Pineyhill Farm	Washington Twp	126	\$ 339,825	\$339,825	\$ -	\$ 2,687	2004
Crossroads Farm (Polhemus)	White	108	\$ 648,762	\$419,402	\$ 229,360	\$ 6,000	2004
Total 2004:		2,064	\$8,790,813	\$ 4,705,951	\$3,042,211	\$4,260	
Mangine	Blairstown	30	\$ 135,000	\$ 91,574	\$21,713	\$ 4,500	2005
Maple Hill Farm	Blairstown	124	\$395,936	\$ -	\$107,350	\$ 3,200	2005
Sigler, Ronald #1	Franklin	91	\$ 600,518	\$382,148	\$ 109,185	\$ 6,600	2005
Sigler, Ronald #2	Franklin	82	\$ 576,271	\$362,227	\$107,022	\$7,000	2005
Sigler, Ronald #3	Franklin	98	\$ 587,280	\$381,732	\$102,774	\$ 6,000	2005
Sigler, Ronald #4	Franklin	53	\$347,099	\$221,609	\$ 62,745	\$ 6,500	2005
Gurba, Stephen #3	Frelinghuysen	123	\$345,794	\$254,400	\$ 91,394	\$ 2,800	2005
Van Grouw, William	Frelinghuysen	102	\$ 356,318	\$356,318	\$ -	\$ 3,500	2005
Maple Hill Farm	Hardwick	7	\$ 21,248	\$ -	\$5,650	\$ 3,200	2005
Hengst, L.	Harmony	63	\$239,727	\$169,070	\$ 70,656	\$ 3,800	2005
Tjalma	Harmony	219	\$1,463,700	\$ -	\$ -	\$ 6,682	2005
Rohsler, Barbara	Hope	60	\$ 167,793	\$89,889	\$ 77,904		2005
Rohsler, H. Mark	Hope	71	\$ 162,175	\$105,767	\$ 56,409		2005
Arena	Knowlton	35	\$ 175,555	\$119,377	\$ 28,089	\$ 5,000	2005
Brugler Farm #1	Knowlton	33	\$ 224,748			\$ 6,750	2005
Brugler Farm #2	Knowlton	47	\$ 325,455			\$ 6,950	2005
Mangine	Knowlton	4	\$ 15,840	\$10,912	\$ 2,464	\$ 4,500	2005
Bullock	White	102	\$ 392,400	\$255,060	\$137,340	\$ 3,850	2005

Farmland Preservation in Warren County – Program History

Farm	Township	Acres	Total Cost	State Cost	County Cost	Cost Per Acre	Year Purchased
Caruso	White	126	\$ 673,716	\$673,716	\$ -	\$ 5,343	2005
Total 2005:		1,470	\$ 7,206,573	\$3,473,800	\$980,695	\$4,903	
Van Horn Estate	Allamuchy	98	\$735,465		\$ 735,465	\$7,500	2006
Bungert, Mary Lou	Franklin	42	\$ 328,581	\$201,716	\$126,865	\$7,900	2006
Peck Dering (White Oak Farm)	Frelinghuysen	44	\$ 228,386	\$153,726	\$ 74,659	\$ 5,200	2006
Grochowicz, T. & L	Hope	47	\$ 311,568	\$193,542	\$ 118,027	\$6,650	2006
McCloskey, Anne	Hope	127	\$900,000	\$449,233	\$350,767	\$ 7,112	2006
Diecidue, Agostino	Independence	46	\$ 137,604	\$ -	\$ 137,604	\$ 3,000	2006
Weeks III	Knowlton	46	\$182,148	\$127,504	\$54,644	\$ 2,800	2006
AJR REALTY	Pohatcong	19	\$ 129,612	\$81,470	\$ 24,071	\$7,000	2006
Enz, Kathleen	Washington Twp	151	\$ 5,000,000	\$2,508,000	\$ 418,000	\$27,768	2006
Enz, Kathleen	Washington Twp	38	\$ 196,518	\$123,958	\$ 72,561	\$ 5,200	2006
Matthews, Ivan	White	38	\$ 196,836	\$ 124,158	\$72,678	\$ 5,200	2006
Pequest Development	White	36	\$ 188,992	\$121,240	\$ 67,752	\$ 5,300	2006
Total 2006:		789	\$ 8,535,709	\$4,084,546	\$2,253,093	\$10,815	
Hill	Blairstown	29	\$ 216,638	\$ 134,315	\$ 62,237	\$ 7,500	2007
Ruh	Blairstown	136	\$ 705,000	\$474,520	\$182,009	\$ 5,200	2007
Convey, Frenk et als	Franklin	148	\$ 679,349	\$466,713	\$212,636	\$ 4,600	2007
Hamlen/McNerney	Harmony	20	\$ 103,585	\$5,589	\$12,046	\$ 4,000	2007
Schanzlin, Robert	Harmony	83	\$531,974	waiting for state funds		\$ 6,400	2007
Fritz, Gladys	Knowlton	13	\$ 11,550	waiting for reimbursement	\$ 11,550	\$ 924	2007
Total 2007:		428	\$ 2,248,096	\$ 1,131,137	\$480,478	\$5,256	
County Total:		15,125	\$ 68,953,872	\$40,431,121	\$ 18,591,819	\$4,559	

Below is a table detailing the breakdown of preserved farmland by type of program.

Program	Acres	Total Cost
Municipal	552	\$7,112,462
Nonprofit Grant	154	\$ 453,204
Municipal PIG	1,319	\$ 7,070,073
SADC Direct	2,689	\$ 13,110,830
County Easement	10,411	\$ 41,207,301
Totals:	15,125	\$ 68,953,872

The majority of projects (69% of the total preserved farmland) are protected through the County Easement Purchase program. The State Direct program funds 18% of the projects in Warren County. The municipal Planning Incentive Grant (PIG) program is a growing segment of the preservation program and has preserved 9% of all farmland in Warren County. Nonprofits have preserved 1% and towns have preserved 4% directly.

County Easement Purchase

County Easement Purchases involve the sale of farmland development rights to the county by the landowner. By selling their development rights to the county, the landowner agrees to restrict their land to agricultural use. The landowner still retains ownership of his or her

farm and can sell it on the open market at any time, but the land is deed-restricted, in perpetuity, for agricultural use.

To be eligible for the County Easement Purchase program, a landowner must complete an application. In the past, these applications were distributed once a year, with the new County Planning Incentive Grant program there will no longer be an annual application date for the County Easement Purchase program. Following review of the application and a site visit by the CADB, two independent appraisals must be conducted. Each appraisal should determine the land's fair market value and its agricultural value. The difference between these two is the price of the farm's "development rights," also known as the easement value. This is the price that the State offers to the landowner, and if this price is accepted, the County has title work and a survey done for farms receiving final State, County and Municipal approvals, and then schedules a closing. The landowner still retains ownership of his or her farm and can sell it on the open market at any time, but the land is deed-restricted, in perpetuity, for agricultural use.

Over one hundred farms (105) farms have been preserved through the County Easement purchase program, protecting 10,411 acres of farmland in Warren County.

County Planning Incentive Grants

The goal of County Planning Incentive Grants (PIGs) is to protect and preserve large pieces of contiguous farmland through the purchase of development easements. The State Agriculture Development Committee (SADC) has recently updated their rules (N.J.A.C. 2:76-6.3 through 2:76-17A.17) to promote County PIGs to streamline and expand the farmland preservation program throughout the state. In order to qualify for PIGs, an agricultural advisory committee, as which the County Agriculture Development Board (CADB) functions for the county, is necessary. Additionally, the county must maintain a dedicated source of funding or alternative means for funding farmland preservation. Both county and municipal applications should correlate with county comprehensive farmland preservation plans. Warren County has developed this *Comprehensive Farmland Preservation Plan* in order to bring it into compliance with the newly adopted guidelines and qualify for the County Planning Incentive Grant program.

Municipal Planning Incentive Grants

Municipal Planning Incentive Grants (PIGs) are very similar to the County PIGs in their goals, requirements, and implementation. Like the County PIGs, Municipal PIGs require local financial commitment for preserving farmland. Upon the completion of a municipal Farmland Preservation Plan and application to the SADC, grants are provided by the SADC in order to purchase development easements. The Farmland Preservation Plan Element describes the farms that are the focus of the municipal PIG. In order to qualify for this program, the town must have an agricultural advisory board and a source of funding for farmland preservation. Farms to be preserved through a municipal PIG need to be approved by the CADB. Warren County requires matching funding (50:50) between the County and the municipality, as part of a municipal PIG.

Currently there are ten communities in Warren County enrolled in the Municipal Planning Incentive Grant program:

- 1) Blirstown Township
- 2) Franklin Township
- 3) Frelinghuysen Township
- 4) Greenwich Township
- 5) Harmony Township
- 6) Hope Township
- 7) Knowlton Township
- 8) Pohatcong Township
- 9) Washington Township and
- 10) White Township

The table below details the municipal Planning Incentive Grant Program in Warren County. Four farms have been preserved in Blirstown, four in Franklin, one in Harmony, five in Knowlton, five in Pohatcong and one in Washington Township for a total of 20 farms on 1,319 acres.

Farm	Township	Acres	Total Cost	State Cost	County Cost	Cost Per Acre	Year Purchased
Hill	Blirstown	29	\$ 216,638	\$ 134,315	\$ 62,237	\$7,500	2007
Mangine	Blirstown	30	\$135,000	\$ 91,574	\$ 21,713	\$4,500	2005
Maple Hill Farm	Blirstown	124	\$ 395,936	\$ 237,000	\$107,350	\$3,200	2005
Ruh	Blirstown	136	\$ 705,000	\$ 474,520	\$ 182,009	\$5,200	2007
Sigler, Ronald #1	Franklin	91	\$ 600,518	\$ 382,148	\$ 109,185	\$6,600	2005
Sigler, Ronald #2	Franklin	82	\$ 576,271	\$362,227	\$107,022	\$7,000	2005
Sigler, Ronald #3	Franklin	98	\$ 587,280	\$381,732	\$102,774	\$6,000	2005
Sigler, Ronald #4	Franklin	53	\$347,099	\$221,609	\$ 62,745	\$6,500	2005
Hamlen/McNerney	Harmony	20	\$ 103,585	\$55,589	\$12,046	\$4,000	2007
Arena	Knowlton	35	\$175,555	\$119,377	\$ 28,089	\$5,000	2005
Brugler Farm #1	Knowlton	33	\$224,748	\$138,920	\$42,914	\$6,750	2005
Brugler Farm #2	Knowlton	47	\$ 325,455	\$204,672	\$60,291	\$6,950	2005
Diecidue, Agostino	Knowlton	46	\$182,148	\$ 127,504	\$ 54,644	\$2,800	2006
Mangine	Knowlton	4	\$15,840	\$10,912	\$ 2,464	\$4,500	2005
Chelsea Forge Vintners	Pohatcong	69	\$ 320,839	\$208,720	\$46,687	\$ 4,673	2004
Marchesi	Pohatcong	18	\$95,877	\$ 64,218	\$15,829	\$5,300	2004
Weeks III	Pohatcong	19	\$129,612	\$ 81,470	\$ 24,071	\$7,000	2006
Willard, Donald	Pohatcong	50	\$ 317,470	\$204,101	\$ 56,684	\$6,300	2004
Willard, Donald #2	Pohatcong	240	\$ 1,441,488	\$888,918	\$ 228,236	\$6,000	2004
Marra	Washington Twp.	97	\$ 173,716	\$131,252	\$21,232	\$ 1,800	2001
Total PIG Projects:		1,319	\$7,070,073	\$3,940,188	\$ 1,223,785	\$5,359	

The individual municipal PIG project areas are described in the following section for each of the ten towns.

Blirstown Township

The municipal PIG for Blirstown Township divides the Township into three project areas: the Northern, Central, and Southern Project Areas. The Northern Project District is located

north of State Route 94 and includes three preserved farms: the Handel farm, the Teel farm, and the Braun farm. Four properties in this district are targeted for preservation. These properties are all located to the north of State Route 94 and to the east of Stony Brook Road.

The Central Project District is located south of Route 94 and north of the Erie-Lackawanna Railroad. This district contains ten preserved farms. These include the Benton farm, Gouger farm, a town park, and six NJDEP properties. In addition to the ten preserved farms, there are eight properties targeted for preservation.

The Southern Project District is located south of the Erie-Lackawanna Railroad and north of Hope Township. This district contains five preserved farms. These are the Shotwell farm, Dukes farm, Mowbray farm, Deblock farm, and Beech Ridge preserve. There are eighteen properties targeted for preservation in this district.

Franklin Township

The municipal PIG for Franklin Township divides the Township into three project areas: Stage 1 Prime Preservation, Stage 2, and Stage 3 Significant Agricultural Lands with Future Development Potential.

The Stage 1 Prime Preservation project area is located to the southeast of Mountain View Road and northwest of the Musconetcong River. Growth Areas, State Open Space, and areas designated as steep slopes, wetlands, and soils are also present in the Stage 1 Area. There are fifty-five properties designated as Stage 1 Farmland, five of which are existing preserved farmland. There are forty-five Stage 1 properties targeted for farmland preservation.

The Stage 2 project area is located southeast of Route 57 and northwest of Good Springs Road. It consists of thirty-two properties that have been targeted for farmland preservation. One of these properties, the Cole property, has already been designated as Open Space.

Stage 3 properties are those that have been deemed significant agricultural lands with future development potential. This project area is located southeast of the old Morris Canal and northwest of Good Springs Road. There is one existing preserved farm. There are forty-four properties in this project area that have been targeted for preservation.

Frelinghuysen Township

The municipal PIG for Frelinghuysen Township divides the Township into six project areas. These project areas include the Allamuchy Farmland Belt, Limestone Valley-Bear Brook and Trout Brook, Martinsburg Ridge, Paulins Kill Valley, Johnsonburg District, and Hope Preservation Area.

These project areas contain thirteen preserved farms and two farms that have been listed in an eight year preservation plan. The preserved farms are scattered throughout the different

project areas. The farm assessed properties listed in the 8-Year Program are located to the east of the Paulins Kill Valley project area. These properties include the Kuhn and Size farms.

The Paulins Kill Valley project area is located in the northernmost part of the Township. Directly south of this project area are the Martinsburg Ridge and Johnsonburg District project areas. The Hope preservation area is the southernmost of the preservation areas and is located in the western portion of the Township, bordering Hope. The Limestone Valley-Bear Brook is located to the south of the Johnsonburg District. The Allamuchy Farmland Belt project area is located directly south of the Limestone Valley-Bear Brook project area, on the border of Allamuchy Township.

Greenwich Township

The municipal PIG for Greenwich Township divides the existing properties into three types: existing preserved farmland property, properties within the 1999 Farmland Preservation PIG, and properties previously added to PIG. All of the properties that have been targeted for farmland preservation are located in a cluster in the center of the Township, with many of the properties located on the border with Franklin Township.

There are eight properties in Greenwich Township that have been designated as preserved farmland. These include the Oberly, Tom, Bortz, Santini, and Rayna farms. Eleven properties in the Township have been targeted for farmland preservation.

Harmony Township

The municipal PIG for Harmony Township encompasses the entire Township rather than dividing it into different project areas. The Township contains eight preserved farmland properties which include the Risko, Vegh, Heeres, MacQueen, Hengst, Fischer/ Schanzlin, Magyar/ Toll Brothers, and Santini properties. Four properties are listed as “in works” for farmland preservation. These are the Tjalma, Shandor, Santini, and Hamlin/ Mc Nerney properties. There are six properties that are listed as potential farmland preservation targets.

Hope Township

The municipal PIG for Hope Township divides the Township into three proposed project areas: Project Area 1, Project Area 2, and Project Area 3. Project Area 1 is located to the north of the border with White Township. It is bordered by Honey Run Road, Swayze Mill Road, and Kostenbader Road. Project Area 1 contains seventy properties that qualify as Farmland Protection eligible farms.

Project Area 2 is located between North Locust Lake Road and Foundry Road to the south of Interstate Route 80. It contains twenty nine farms that are candidates for protection.

Project Area 3 is located to the south of Interstate Route 80 and to the northeast of Project Area 2. Project Area 3 contains thirty-five farms that are candidates for protection.

Knowlton Township

The municipal PIG for Knowlton Township divides the Township into two areas: Project Area No.1 and Project Area No. 2. Project Area No. 1 is located in the northern section of the Township, to the north of Interstate Route 80. It consists of nine properties that have been designated as preserved farms. Project Area No. 1 also includes eight properties targeted for preservation.

Project Area No. 2 is located in the southern portion of the Township, south of Interstate Route 80. This area contains twenty-eight preserved farms. It also contains forty-seven farms targeted for preservation.

Pohatcong Township

The municipal PIG for Pohatcong Township divides the Township into four Agricultural Development Areas. These development areas are the Pohatcong Grasslands ADA, the Valleys and Ridge ADA, the Still Valley ADA, and the Silver Hill ADA.

The Pohatcong Grasslands ADA is located to the northwest of Creek Road and extends to the town's border with Pennsylvania. This ADA contains fourteen preserved farms which include the Long farm, Oberly farm, Hartung farm, Csiszlak farm, Santini farm, and Horizon Associates land. There are twenty-four properties targeted for preservation.

The Valleys and Ridge ADA is located to the northwest of the Musconetcong River southeast of Creek Road. There are thirteen preserved farms located within this ADA. These include the Smith Trust, the Rosenbaum farm, the Frey Trust, the Marchesi farm, and the Chelsea Forge Vintners. In addition to the preserved farms, there are forty-eight properties targeted for preservation.

The Still Valley ADA is the northernmost Agricultural Development Area, located to the east of the Borough of Alpha and to the north of Pohatcong Creek. This ADA does not contain any preserved farms. It contains twenty-six properties which have been targeted for preservation.

The Silver Hill ADA is located to the south of Pohatcong Creek and extends to the border of Warren and Hunterdon County. It contains four preserved farms including the Weeks farm as well as twenty-one properties targeted for preservation.

Washington Township

The municipal PIG for Washington Township is divided into project phases. These project phases have been labeled A, B, and C. Project Phase A is located to the north of Route 57. It consists of nine properties which have been targeted for preservation. These include the Knittel, Marra, McDonough, Munniksmma, Sheilds, Sodtalbers, and Vacchiano properties.

Project Phase B is located to the south of Route 57 and to the east of Route 31. Project phase B consists of six lots that have been targeted for preservation. These lots include the Terry, Anema, Piazza, and Kingsbury properties.

Project Phase C is located to the west of Route 31 and to the south of Route 57. It contains two lots that have been designated as preserved farmland, the Caputo and Schnetzer properties. It also contains six lots that have been targeted for preservation. These include the Sigler, Abbot, Rush, and Lipka properties.

White Township

The municipal PIG for White Township divides the Township into two project areas: Stage 1 selected farm targeted properties and Stage 2 selected farm target properties. Stage 1 selected farm targeted properties are located to the east of Route 46 and extend as far as the Township lines between White, Hope, Liberty, and Knowlton Townships. This area contains three preserved farmland properties and sixty properties targeted for farmland preservation.

Stage 2 selected farm targeted properties are located to the west of Route 46 and extend to as far as the White Township lines with Harmony, Washington, and Belvidere Townships. The Stage 2 project area has four preserved farms. It has two properties listed as under application. The project area has ninety-seven selected farm properties targeted for preservation.

Municipal Farmland Preservation Program

Four farms in Warren County have been preserved directly by the municipality either using SADC grant funding or with the intention of later receiving cost share participation from the SADC. These farms total 552 acres.

Farm	Township	Acres	Total Cost	Year Purchased
Rayna	Greenwich	74		2004
Tjalma	Harmony	219	\$ 1,463,700	2005
AJR REALTY	Washington Twp	151	\$5,000,000	2006
Crossroads Farm (Polhemus)	White	108	\$648,762	2004
Total Municipal Projects:		552	\$7,112,462	

SADC Direct Easement Purchase

Also important to Warren County farmers is the State Agriculture Development Committee (SADC). The SADC is the lead program in administering the state's Farmland Preservation Program. The SADC:

- Provides cost share funding for the purchase of development easements.
- Directly purchases farms and development easements from landowners;
- Administers grants to landowners in the Farmland Preservation Program to fund up to 50 % of soil and water conservation projects;
- Administers the Right to Farm Program (discussed in *Chapter 8*);
- Administers the Transfer of Development Rights Bank; and,
- Operates the Farm Link Program, which helps connect farm owners with potential tenant farmers.

The SADC Direct Easement Purchase is a program that allows a landowner to apply directly to the SADC for the sale of development rights. Landowners do not have to be within an ADA if they are making an application directly to the State. In most cases, the State will pay up to 100% of the certified appraised easement value in the direct easement purchase program. By participating in this program, the landowner still retains ownership of their land, but agrees to restrict land use to agricultural purposes. The Direct Easement Program does not require monetary contributions from the County.

Farm	Township	Acres	Total Cost	Acquisition Type	Year Purchased
Corestates	Pohatcong	561	\$3,250,000	Fee	1998
Anisfield / Gibbs	Allamuchy	237	\$720,988	Easement	2000
DeBlock / Blairstown Twp.	Blairstown	165	\$ 1,069,543	Easement	2004
Silverside	Frelinghuysen	49	\$ 161,799	Easement	2003
Van Grouw, William	Frelinghuysen	102	\$ 356,318	Easement	2005
Tom	Greenwich	46	\$ 252,789	Easement	2002
F. Santini	Harmony	55	\$165,975	Easement	2004
Hengst Farm	Harmony	121	\$ 1,125,000	Fee	2000
Magyar	Harmony	130	\$ 988,591	Fee	2002
Ridgewood Hunt Club	Knowlton	311	\$1,120,885	Easement	2003
Walters	Knowlton	149	\$472,765	Easement	2002
Gambino	Pohatcong	100	\$500,015	Easement	2002
Snyder	Pohatcong	86	\$293,780	Easement	2002
Blazier	Washington Twp.	136	\$750,000	Fee	2000
McDonough	Washington Twp.	188	\$1,034,817	Fee	2001
Pineyhill Farm	Washington Twp.	126	\$339,825	Fee	2004
Caruso	White	126	\$673,716	Easement	2005
Total SADC Direct:		2,689	\$13,276,804		

The state has preserved 17 farms on 2,689 acres in Warren County at a cost of \$10,542,671 in state funds and \$587,413 in County funds.

SADC Fee Simple

A fee simple acquisition involves an entire property being purchased directly by the state. The SADC pays the survey and title costs, the landowner is exempt from paying rollback taxes for farmland assessment and the transaction can be completed in a matter of months. The SADC negotiates a purchase price subject to recommendations of two independent appraisers and review by a state review appraiser. The land becomes restricted so that it becomes permanently preserved for agriculture. In this type of acquisition, the landowner does not retain any rights. The property is then resold at auction, the SADC does not retain ownership. To qualify to participate in this program, the farmland must be within an ADA and be eligible for Farmland Assessment.

Nonprofit Grant Program

Grants are provided to nonprofit organizations by the State Agriculture Development Committee. These grants fund up to 50% of the fee simple or development easement values on farms. Generally these transactions involve properties with both agricultural and environmental significance. Grants are obtained through an application process, in which the land is valued by independent appraisers. Three farms have been preserved in Warren County through the nonprofit grant program with Ridge and Valley Conservancy: in Blirstown, Hardwick and Hope Townships for a total of 154 acres.

Farm	Township	Acres	Total Cost	State Cost	County Cost	Other*	Cost Per Acre	Year Purchased
Round Hill Farm (RVC)	Blirstown	42	\$431,956	\$	\$94,000	\$147,706	\$6,260	2004
Round Hill Farm (RVC)	Hardwick	27		190,250				
Maple Hill Farm (RVC)	Blirstown	124	\$417,184	\$237,000	\$113,000	\$67,184	\$3,185	2005
Maple Hill Farm (RVC)	Hardwick	7						
Motyka (RVC)**	Hope	78	\$141,191	\$141,191			\$1,810	2003
Total Nonprofit Grants:		154	\$453,204		\$98,650		\$2,948	

* Other: Charitable contribution or Conservancy Funds

** Motyka: This was a bargain sale, requiring no county or local funds. The entire easement cost came from the SADC through the nonprofit grant program.

In 2006 Warren County creatively partnered with Morris Land Conservancy (MLC), utilizing MLC's nonprofit SADC Planning Incentive Grant, to preserve 350 acres of farmland in the county. This successful coalition was repeated and expanded upon in 2007 with 506 acres expected to be preserved. This opened up an entirely new revenue stream for farmland funding in Warren County. As a result, in the first two years of the partnership, Morris Land Conservancy was able to bring an additional \$1,994,408 in state nonprofit farmland funding for easement acquisitions in Warren County.

Transfer of Development Rights

The transfer of development rights is a growth management tool that transfers development rights from one location, a preservation area, to another, an identified growth area. The development rights are used to allow for development at a higher density than what the

previous zoning of the receiving area allowed. To date, this program has not been used by Warren County to preserve farmland.

Consistency with SADC Strategic Targeting Project

The purpose of the SADC Strategic Targeting Project is to prioritize farmland to be preserved by targeting farms for preservation based on specific criteria, including the prioritization of prime and statewide soils in agricultural production outside sewer service areas. According to the SADC, the Strategic Targeting Project has three primary goals. These are as follows:

- The coordination of farmland preservation and retention of agricultural practices “with proactive planning initiatives.”
- To update and create maps which serve as a tool for more accurate preservation targets.
- To coordinate different preservation efforts, such as open space, with farmland preservation.

Through the use of the Strategic Targeting Program, the SADC hopes to more efficiently target and designate farmland for preservation and, by doing so, boost the State’s agricultural industry.

The Warren CADB, through the completion of its 2007 Comprehensive Farmland Preservation Plan, meets each of the goals as outlined in the Strategic Targeting Project.

Eight Year Programs

The 8-Year Farmland Preservation Program and the Municipally Approved 8-Year Farmland Preservation Program are both cost sharing programs for soil and water conservation projects, in which the farmer receives 50% cost sharing for these projects as well as protection against emergency energy and water restrictions and eminent domain. In return, the farmer signs an agreement that restricts the land to agricultural use for eight years. For entrance into these programs and to qualify for benefits, a farm must be located within an ADA. Technical assistance for the soil and water practices comes through the Natural Resource Conservation Service.

In Warren County, 1,190 acres are currently protected through the eight-year program. This includes farms in Allamuchy, Frelinghuysen, Harmony, Hope, Independence, Liberty, Mansfield, and Washington. The Warren CADB views the 8-Year Program as a stepping stone to preservation. It gives participants an opportunity to see the workings of the program and participate in grants for needed projects. The farms currently enrolled in the eight-year program are listed below and shown on the *Farmland Map* included with this Plan.

Farm	Township	Date Expires	Acres
Burke, Bradley	Hope	10/20/2012	35
DC Farms (Crouse)	Harmony	3/2/2011	140
Donaldson Family Partnership	Mansfield	5/7/2008	95.56
Great Meadows Associates	Independence	2/27/2008	290.86
Kenco Land	Independence, Liberty	9/6/2012	84
Kenco Land	Independence	10/19/2011	40.62
Kenco Land	Liberty	7/6/2014	17
Kuhn Farm	Frelinghuysen	1/24/2012	21.97
Piasecki	Liberty, Independence	3/2/2011	45.98
Pryslak Farms	Liberty, Independence	11/8/2012	147.75
Pryslak Farms	Allamuchy, Independence, Liberty	11/8/2012	284.4
Size	Frelinghuysen	4/16/2014	14.24
TOTAL ACRES			1,217.38

Coordination with Open Space Preservation Initiatives

A cooperative project involves a partnership and/or funding from more than one agency. This kind of project leverages county farmland preservation dollars and makes use of municipal open space trust funds or grants to non-profit organizations. These “hybrid” projects are an opportunity to use traditional open space funds, where appropriate, to help preserve farm properties, especially where those properties are a mixture of cropland and woodland areas. The use of Green Acres funding, local open space trust funds, and nonprofit grant funds are becoming increasingly important to preserving agricultural landscapes. All publicly preserved open space is shown in “green” on the *Farmland Map*.

Farmland preservation and the identification of targeted farms should be coordinated with open space planning efforts. Trail easements and adjacency to proposed and existing active recreational facilities are potential areas of concern for farmers. As the establishment of trails and parks in local communities grows in Warren County the CADB can look to the Open Space Plans to determine whether public access easements should be negotiated as part of a farmland preservation project.

Fifteen towns in Warren County currently have municipal Open Space trust funds (see table below). Working with these towns and N.J. Green Acres, the Warren CADB is in a better position to coordinate farmland preservation with open space preservation.

TOWNS	Municipal Open Space fund	Municipal Tax Rate (per \$100)	Existing Balance (\$)	Amount Generated per Year (\$)	Green Acres Planning Incentive Program (if Yes, date enrolled)	Open Space Plan (if Yes, date)
Allamuchy Township	Yes	0.020	350,000 (1-05)	90,000	Yes 2000	Yes. Dec 04
Alpha Borough	Yes	0.040	313,870.87	80,000	No	Yes. Feb 07
Town of Belvidere	No	n/a	n/a	n/a	No	No
Blairstown Township	Yes	0.035	0	300,000	Yes 2001	Yes
Franklin Township	Yes	0.065	239,716.00	260,000	Yes, July 2006	Yes. Jan 06
Frelinghuysen Township	Yes	0.020	191,139 (05-07)	53,000	Yes, April 2006	Yes. Feb 06
Greenwich Township	Yes	0.040	245,000 (9-06)	245,000	Yes, 2002	Yes.
Hackettstown	No	n/a	n/a	n/a	No	No
Hardwick Township	Yes	0.01-0.03	92,632	49,000	Yes 2001	Yes
Harmony Township	Yes	0.050	\$1,161,000	260,000	Yes 2006	Yes. Apr 06
Hope Township	Yes	0.020	56,000	28,000	No	Yes. Nov 06
Independence Township	Yes	n/a	n/a	n/a	No	No
Knowlton Township	Yes	0.020	104,000	20,774	Yes 2003	Yes
Liberty Township	Yes	0.020	104,012.60	53,000	No	Yes. Feb 05
Lopatcong Township	No	n/a	n/a	n/a	No	No
Mansfield Township	No	n/a	n/a	n/a	No	No
Oxford Township	No	n/a	n/a	n/a	No	No
Town of Phillipsburg	No	n/a	n/a	n/a	No	No
Pohatcong Township	Yes	0.02-0.05		180,000	Yes 2005	Yes. Sept 04
Washington Borough	No				No	Yes
Washington Township	Yes				Yes 2001	Yes
White Township	Yes	0.020	42,052	124,431	No	Yes

Warren County has addressed the need for coordination between farmland preservation and open space programs by establishing the Land Preservation Department. The Director of this Department is responsible for administration of the farmland preservation program, acquisition of open space and grants to municipalities and charitable conservancies. It has successfully negotiated acquisition of parcels in fee and easement for trails and the acquisition of a significant section of the Morris Canal in conjunction with a farmland preservation application. Several previous Morris Canal acquisitions were unsuccessful due to issues with the farmer's reluctance to divide his parcels or dissatisfaction with value offer.

On the following page is the *Garden State Greenways Map* for Warren County. This map details the location of local and regional open space and recreational lands in and around Warren County and may be used by the Land Preservation Department in conjunction with the County's *Project Area Map* to identify land for preservation.

Farmland Preservation Program Funding Expended to Date by Source

The Warren County Open Space Preservation Trust Fund was initially established in January 1995 and set at two cents. In 1999 the Freeholders renamed the Trust Fund to the Open Space Recreation Farmland Preservation Trust Fund and increased it to four cents. The Fund was subsequently increased to six cents in 2003. Prior to the establishment of the dedicated Trust, Warren County funded farmland preservation through a bond. The present division for the Trust Fund is: 55% farmland, 25% municipal and charitable grants and 20% open space. Approximately 6% to 7% of the Trust is used for administrative costs. The below table details the amount generated per year since 2002 and the percent increase in the Trust Fund since that time.

Year	Amount Generated	Percent Increase
2002	\$2,900,000	
2003	\$5,180,000	78% (two cent increase)
2004	\$5,520,000	7%
2005	\$6,200,000	12%
2006	\$7,300,000	17%
2007	\$7,800,000	6.5%

Of the available funding in 2007, approximately \$4,500,000 is available for farmland preservation. To date Warren County has expended \$18,591,819 on 150 projects preserving 15,125 acres.

Monitoring the Easements

To verify that compliance with the deed restrictions (on county owned easements only) is taking place, the Warren County Soil Conservation District has been contracted by the Land Preservation Department to perform the required annual inspections. These consist of completion of a form during a field visit to the farm. Any violations are then referred to the Special Counsel for the WCADB for action, including, if necessary, injunctive relief. The inspectors take note of the following:

- change in ownership since the previous inspection
- evidence of non-agricultural development (approved or otherwise)
- use of the premises for agricultural activities
- presence of expansion of non-agricultural activity since the previous inspection
- if the non-agricultural practice has been abandoned
- evidence of mining or removing of materials such as sand, gravel, rock, etc.
- evidence of dumping
- whether or not the farm has an approved conservation plan
- any improvements to farm buildings and residences
- any new agricultural buildings erected

The SADC is responsible for monitoring state held easements. Warren County works cooperatively with the state to identify and resolve potential problems with easement enforcement.

Coordination with Transfer of Development Rights Programs

Transfer of Development Rights (TDR) may be used in conjunction with the traditional Purchase of Development Rights (PDR) program; these two programs are not mutually exclusive. See *Chapter 3* for a discussion of the possibilities for implementing and coordinating transfer-of-development rights programs within the Highlands and throughout Warren County.

CHAPTER 5: FUTURE FARMLAND PRESERVATION PROGRAM



Preservation Goals

Warren County has set ambitious goals for their Farmland Preservation Program. The County Board of Chosen Freeholders has set a target goal of preserving **20,000 acres by 2010**. There are already over 15,125 acres of farmland currently preserved within Warren County, and therefore progress towards the 2010 goal is well underway. In order to reach this goal, the County will need to preserve an additional 4,875 acres over the next three years, or 1,625 acres a year.

Warren County is 232,207 acres (363 square miles) in size. Of this, **113,191ⁱ acres** are under farmland assessment, which includes croplands, woodlands, farm structures and wetlands/waterways that occur on an agricultural property. The *2002 Census of Agriculture* identifies **78,042 acres** in Warren County as land in farms, which excludes some farmland assessed parcels that are not in active agricultural production.

Since 1989, Warren County has preserved **15,125 acres** of farmland. Using the 78,042 acres identified as farm property by the 2002 Census of Agriculture, this leaves 62,917 acres of unprotected farmland remaining in Warren County, or 81% of the County's agricultural base.

Based upon the State's Minimum Eligibility Criteria for productive soils and tillable land, **34,830 acres** are potentially eligible for farmland preservation in Warren County. Based upon the Board of Chosen Freeholders goal of preserving 20,000 acres by 2010, available funding to purchase and preserve farmland, and the amount of potential farmland eligible for preservation, the following preservation goals are identified for Warren County:

One year target:	1,625 acres,
Five year target:	8,125 acres,
Ten year target:	16,250 acres.

ⁱ Note: For the ADA and Project Area analyses the farmland assessed data is derived from the GIS digital data, which is slightly different from that provided by the Warren County Tax Assessor Office (see *Chapter 1*).

Public Participation

For the development of this Comprehensive Farmland Preservation Plan, the Warren CADB hosted three public meetings seeking input and direction from local residents, farmers, officials, and representatives of agencies and nonprofit organizations interested in farmland preservation. The first two of these meetings were held towards the beginning of the plan development and the third and final meeting was held after the Draft Plan had been released to the public, in order to receive comments on the Draft Plan.

Public Hearing #1 - April 19, 2007

The Warren County Board of Chosen Freeholders and the Warren County Agriculture Development Board (CADB) hosted an initial public meeting on Thursday, April 19, 2007. Present at the meeting were representatives from the County Agriculture Development Board, Morris Land Conservancy, farmland owners, and residents of Warren County interested in the issue. Nearly 70 people were in attendance. Those present were informed of the purpose and specifics of the Warren County Comprehensive Farmland Preservation Plan and an open forum followed, in which those present asked questions and voiced their opinions about the current status and the future of agriculture in Warren County. Attendees raised their concerns while offering suggestions for improving the existing program.

Concerns raised included inconsistency between various agencies, such as those at the state level and at the county level, which has led to complexity that makes preserving one's farmland and farming on that land difficult. Attendees of the meeting requested a less complex, user-friendly system, suggesting more coordination at the municipal level is needed. Objections to some of the restrictions placed on preserved farmland were also raised. These restrictions exist to ensure that the land and its buildings are being used for agricultural uses only, yet some farmers expressed that these restrictions increase a farmer's economic difficulties, especially those limiting the ways in which farmers can use structures on their property. The restrictions may limit more economical practices, decreasing a farmer's profit, and therefore making it more difficult to maintain the farm. Attendees of the meeting suggested that revising the restrictions would promote agriculture in the region.

Attendees of the meeting expressed opposition to the Highlands Water Protection and Planning Act, stating that the Act, designed to protect land and natural resources in the region, has in fact limited farmers' access to land, inhibiting agricultural practices in Warren County. 32,198 acres of farmland in Warren County is located in the Highlands Preservation Area. Because this land, under the Highlands Act, cannot be developed for homes or businesses, the value of the land decreases. Farmers borrow money against that land, and when that land's value declines, the ability of a farmer to borrow money also declines or disappears.

County residents voiced concerns over the appraisals they are receiving for their farms; many farmers feel that these appraisals are inaccurate. They reported vast variations in

appraisals, from different appraisers, often exist for the same property, or that the formula appraisers use is not appropriate.

The common sentiment is that, in addition to preserving the land on which agriculture takes place, efforts to preserve the farmer—the ability of individuals to practice agriculture on the preserved land—are necessary. Impediments to this, as stated by attendees of the meeting, include high input costs and a lack of a supply and service infrastructure in the area. In general, many of Warren County farmers' difficulties in continuing to farm are economic in nature.

As farm acreage in the county has decreased, the customer base of businesses offering services to farmers has also declined, causing such businesses to leave the area. As a result, Warren County farmers needing agricultural supplies, equipment repair, veterinary services for farm animals, and other services, must pay a higher price. Attendees of the public meeting described how they must obtain these goods and services from locations very far from the County, leading to added costs for shipping or for travel. Dairy farmers are at a disadvantage because they cannot sell their produce directly to the consumer. Since there are no creameries in northwestern New Jersey, the milk has to travel, which is costly. The existence of businesses providing parts, goods, services, and processing of a farm's produce would decrease excess shipping costs and lighten the economic burden that New Jersey farmers face. Increased presence of such businesses would further assist in the sustainability of Warren County agriculture.

A concern of some of the attendees of the meeting is that land purchased through the farmland preservation program is not being used for agricultural purposes. Though the current owners are not violating the regulations, they are not keeping the farm active, either. Additionally, attendees of the meeting expressed worry that the younger generations are losing knowledge of how to farm as well as interest in pursuing a career in agriculture. The need to create a market for local agricultural produce, to reduce shipping costs and increase viability of local agriculture, was discussed as a potential solution to some of the economic challenges facing the Warren County farmer.

Public Hearing #2 - June 21, 2007

The Warren County Agriculture Development Board (CADB) invited farmers, county boards and commissions, and state and federal farming organizations and agencies to the second public meeting. The Warren CADB sought information from municipal officials, farmers, and area residents concerning agriculture and farmland preservation. This included effectiveness of the farmland preservation program.

Close to thirty people attended this meeting. Concerns expressed were with the currently defined project areas, the process of farmland preservation as it relates to the new SADC rules, and the classification of soils. Primarily, attendees of the meeting voiced their opinions on the proposed Project Areas defined by Warren County. At the time of this meeting, Warren CADB had proposed five project areas for identifying potential projects for farmland preservation. Attendees felt that the five project areas should not be ranked

by importance and also should not take the Highlands into consideration. Some also expressed that how productive the farm is should be used as criteria in farmland preservation.

A major concern of those present at the meeting was the state classification of soils as capable of supporting agriculture. The classification does not, from the attendees' view, take into consideration soils of local importance, soils that specifically support agriculture in Warren County. An example cited was Nassau soil.

The invitation and agenda for both public meetings are included in the *Appendix*.

Public Hearing #3 – October 18, 2007 – Comments on Draft Farmland Plan

The Warren CADB held the third public meeting on the Draft Comprehensive Farmland Preservation Plan on Thursday evening, October 18, 2007 at the Warren County Department of Land Preservation in Oxford. Attended by residents and municipal officials from throughout the County, questions focused on the extent and meaning of the proposed Agricultural Development Area (ADA), the development of the project areas, and the definition of the SADC Minimum Eligibility Criteria for soils, tillable land, and development potential. Additional comments centered on the impact of the Highlands legislation on farmland preservation and land value. At the conclusion of the meeting the CADB approved the ADA and Comprehensive Farmland Preservation Plan for Warren County.

Project Area Summaries

The Warren CADB has identified seven distinct project areas within the County's Agricultural Development Area for farmland preservation. These project areas are shown on the *Project Areas Map* included within this Plan and described below. These project areas were developed based upon the public input and comments at the second Public Hearing, by analyzing the County's soils and tillable land areas, as well as productive farmland and existing preserved farmland clusters. Mapping information developed by the Garden State Greenways program was also used in the development of the Project Areas.

Project Area Descriptions

PROJECT AREA NORTH:

All land within the ADA Hardwick and Blirstown Townships as well as all land within the ADA in Knowlton Township north of Interstate 80.

PROJECT AREA NORTHWEST:

All land within the ADA in Hope Township and all land within the ADA in Knowlton Township south of Interstate 80.

PROJECT AREA NORTHEAST:

All land within the ADA in Independence, Frelinghuysen, and Allamuchy Townships.

PROJECT AREA CENTRAL:

All land within the ADA in Liberty and Mansfield Townships.

PROJECT AREA WEST:

All land within the ADA in White and Harmony Townships.

PROJECT AREA SOUTHEAST:

All land within the ADA in Franklin and Washington Townships as well as all land within the ADA north of Interstate 78 in Greenwich Township.

PROJECT AREA SOUTH:

All land within the ADA in Pohatcong Township and Alpha Borough as well as all land within the ADA in Greenwich Township south of Interstate 78.

The below Table summarizes the acreage and parcels within each of the Projects Areas:

Project Areas:	Total QFarm Parcels		Unpreserved QFarm Parcels		Preserved QFarm Parcels	
	Number Parcels	Acreage	Number Parcels	Acreage	Number Parcels	Acreage
North	528	12,611	486	10,635	42	2,098
Northwest	365	11,717	349	10,358	16	1,359
Northeast	523	16,392	454	12,549	69	3,875
Central	498	13,383	489	12,850	9	731
West	653	17,378	617	15,700	36	1,933
Southeast	652	18,501	590	15,072	62	3,575
South	230	6,565	200	4,738	30	1,827
Subtotal Project Areas:	3,449	96,547	3,185	81,902	264	15,398

Note: Utilizing the GIS digital database to determine the project area acreages, there will be minor data discrepancies in the total number of parcel and acreages.

Project Area Summaries and Minimum Eligibility Criteria

For each project area, an analysis was completed to identify the amount and density of preserved farmland, soils and size of the area. For each project area the following was determined:

- The size of the total project area (in acres);
- The total acreage of preserved farmland in the project area;
- The acreage of publicly held open space in each project area; and
- The total acreage of prime soils, soils of statewide importance, and unique agricultural soils in each project area.

For each of the above categories, the land area within each project area is expressed as a ratio between the total acreage for each category and the total acreage of the project area. Also included is the percentage of each category expressed as a percentage of the total project area.

Note: There are no “*other deed restricted farmlands*” in Warren County. All farmland has been preserved through the farmland preservation program. “*Open space compatible with agriculture*” was determined using the NJDEP land use/land cover data for tillable land.

Minimum Eligibility Criteria

Minimum Eligibility Criteria are based upon the SADC’s recently adopted (*May 21, 2007*) rules for farmland preservation and project eligibility. In order to be eligible for preservation the site must be developable, have soils capable of supporting agricultural or horticultural production and meet minimum tillable land standards. (N.J.A.C. 2:76-6.20) In summary:

For all lands less than or equal to 10 acres:

- i. The land must produce at least \$2,500 worth of agricultural or horticultural products annually; and
- ii. At least 75% or a minimum of 5 acres of the land (whichever is less) must be tillable; and
- iii. At least 75% or a minimum of 5 acres of the land (whichever is less) must be capable of supporting agriculture or horticulture; and
- iv. The land in question must exhibit development potential as defined by the SADC (based upon zoning, ability to be subdivided, less than 80% wetlands, less than 80% slopes of 15% or more); or
- v. The land must meet the above criteria or be eligible for allocation of development credits pursuant to a Transfer of Development Credits (TDR) program.

For lands greater than 10 acres:

- i. At least 50% or a minimum of 25 acres of land (whichever is less) must be tillable; and
- ii. At least 50% or a minimum of 25 acres of land (whichever is less) must have soils capable of supporting agriculture or horticulture; and
- iii. The land in question must exhibit development potential as defined by the SADC; or
- iv. The land must meet the above criteria or be eligible for allocation of development credits pursuant to a Transfer of Development Credits (TDR) program.

The minimum eligibility analysis involved a parcel-based screening of tax lot characteristics. Farmland preservation applications often include multiple lots; combining these lots may increase the acreage eligible for SADC cost share funding in Warren County. These Minimum Eligibility Standards must be met in order for the State to provide matching funds on a farmland preservation project. The County may proceed without State funding on projects that do not meet these Minimum Eligibility Standards.

Any property included within the County’s ADA is potentially eligible for preservation providing that at least one parcel is on the targeted farm list, is an assemblage of parcels that in total meet SADC minimum standards, or have sufficient justification by the CADB that the parcels were not identified as targeted due to a specific mapping or other error.

Within the identified project areas, Warren County has identified candidate farms (or “targeted farms” as referenced in the May 21, 2007 rules) that meet the tillable land and soils minimum eligibility standards. *Note:* The list of targeted farms will be provided in the FIG application to be submitted to the SADC, separate from this Plan.

The following queries were made utilizing the ArcView GIS data:

Farmland that meets the SADC Criteria for Agricultural Soils

Soil acreage was determined using the Soil Survey as prepared by the Natural Resource Conservation Service for prime farmland soils, soils of statewide importance and soils of unique importance. Farm parcels are sorted on size based upon the State Agriculture Development Committee (SADC) Minimum Eligibility Criteria for soils.

<u>Farm Size</u>	<u>Requirements</u>
0-6.667 acres	75% soils capable of supporting agricultural production
6.667-10 acres	5 acres of soils capable of supporting agricultural production
10-50 acres	50% soils capable of supporting agricultural production
50+ acres	25 acres of soils capable of supporting agricultural production

Farmland that meets the SADC Criteria for Tillable Land

Tillable acreage was determined using the N.J. Department of Environmental Protection 2002 Land Use/Land Cover mapping for agricultural lands. Farm parcels were sorted on size based upon the State Agriculture Development Committee (SADC) Minimum Eligibility Criteria for tillable land.

<u>Farm Size</u>	<u>Requirements</u>
0-6.667 acres	75% tillable
6.667-10 acres	5 acres tillable
10-50 acres	50% tillable
50+ acres	25 tillable acres

Farmland that meets SADC Criteria for both Tillable Land and Soils

Utilizing the tillable acreage determined from the N.J. Department of Environmental Protection 2002 Land Use/Land Cover mapping for agricultural lands and soil acreage determined using the Soil Survey as prepared by the Natural Resource Conservation Service for prime farmland soils, soils of statewide importance and soils of unique importance, farm parcels were sorted on size based upon the State Agriculture Development Committee (SADC) Minimum Eligibility Criteria for tillable land and soils.

The Project Area Summaries and the farmland meeting the Minimum Eligibility Criteria for each project area are presented in the below tables and on the GIS Maps (included

within the *Maps Section* of this Plan). As stated earlier, for each category, the land area within each project area is expressed as a ratio between the total acreage for each category and the total acreage of the project area. Also included is the percentage of each category expressed as a percentage of the total project area.

North	Acreage	Density Ratio	Percentage
Total Acres in Project Area	23,768		
Total Preserved Farmland	2,098	2,098 : 23,768	8.83%
Total Open Space	2,479	2,479 : 23,768	10.43%
Prime, Statewide, Unique Soils	8,943	8,943 : 23,768	37.63%
QFarm Parcels with Productive Soils	4,079	4,079 : 23,768	17.16%
QFarm Parcels with Tillable Land	4,109	4,109 : 23,768	17.29%
QFarm Parcels with Soils and Tillable Land	2,515	2,514 : 23,767	10.58%
QFarm Parcels with Final Approval	54	54 : 23,768	0.23%

Northwest	Acreage	Density Ratio	Percentage
Total Acres in Project Area	17,819		
Total Preserved Farmland	1,359	1,359 : 17,819	7.63%
Total Open Space	1,570	1,570 : 17,819	8.81%
Prime, Statewide, Unique Soils	6,432	6,432 : 17,819	36.10%
QFarm Parcels with Productive Soils	4,550	4,550 : 17,819	25.53%
QFarm Parcels with Tillable Land	5,905	5,905 : 17,819	33.14%
QFarm Parcels with Soils and Tillable Land	3,649	3,649 : 17,818	20.48%
QFarm Parcels with Final Approval	37	3,649 : 17,819	0.21%

Northeast	Acreage	Density Ratio	Percentage
Total Acres in Project Area	20,543		
Total Preserved Farmland	3,875	3,875 : 20,543	18.86%
Total Open Space	2,240	2,240 : 20,543	10.90%
Prime, Statewide, Unique Soils	7,553	7,553 : 20,543	36.76%
QFarm Parcels with Productive Soils	5,554	5,554 : 20,543	27.04%
QFarm Parcels with Tillable Land	5,154	5,154 : 20,543	25.09%
QFarm Parcels with Soils and Tillable Land	0	0 : 20,542	0.00%

Central	Acreage	Density Ratio	Percentage
Total Acres in Project Area	22,371		
Total Preserved Farmland	731	731 : 22,371	3.27%
Total Open Space	2,126	2,126 : 22,371	9.50%
Prime, Statewide, Unique Soils	10,401	10,401 : 22,371	46.49%
QFarm Parcels with Productive Soils	6,982	6,982 : 22,371	31.21%
QFarm Parcels with Tillable Land	4,540	4,540 : 22,371	20.29%
QFarm Parcels with Soils and Tillable Land	3,620	3,620 : 22,371	16.18%
QFarm Parcels with Final Approval	393	3,649 : 22,371	1.76%

West	Acreage	Density Ratio	Percentage
Total Acres in Project Area	28,261		
Total Preserved Farmland	1,933	1,933 : 28,261	6.84%
Total Open Space	3,232	3,232 : 28,261	11.44%
Prime, Statewide, Unique Soils	17,767	17,767 : 28,261	62.87%
QFarm Parcels with Productive Soils	12,174	12,174 : 28,261	43.08%
QFarm Parcels with Tillable Land	9,661	9,661 : 28,261	34.19%
QFarm Parcels with Soils and Tillable Land	9,274	9,274 : 28,261	32.82%
QFarm Parcels with Final Approval	305	3,649 : 28,261	1.08%

Southeast	Acreage	Density Ratio	Percentage
Total Acres in Project Area	27,738		
Total Preserved Farmland	3,575	3,575 : 27,738	12.89%
Total Open Space	1,988	1,988 : 27,738	7.17%
Prime, Statewide, Unique Soils	19,404	19,404 : 27,738	69.95%
QFarm Parcels with Productive Soils	11,510	11,510 : 27,738	41.49%
QFarm Parcels with Tillable Land	10,561	10,561 : 27,738	38.08%
QFarm Parcels with Soils and Tillable Land	10,014	10,014 : 27,738	36.10%
QFarm Parcels with Final Approval	88	3,649 : 27,738	0.32%

South	Acreage	Density Ratio	Percentage
Total Acres in Project Area	8,082		
Total Preserved Farmland	1,827	1,827 : 8,082	22.61%
Total Open Space	672	672 : 8,082	8.31%
Prime, Statewide, Unique Soils	5,498	5,498 : 8,082	68.03%
QFarm Parcels with Productive Soils	2,958	2,958 : 8,082	36.60%
QFarm Parcels with Tillable Land	2,057	2,057 : 8,082	25.46%
QFarm Parcels with Soils and Tillable Land	2,044	2,044 : 8,082	25.30%
QFarm Parcels with Final Approval	217	3,649 : 8,082	2.68%

Based on GIS parcel data analysis, there are a total of **34,830 acres** of farm assessed land (QFarm Parcels) that meets both the Minimum Eligibility Criteria for soils and tillable land. A complete list of these farms is included within the *Appendix* of this Plan.

There are **113,191 acres** of total assessed farmland in Warren County. The *2002 Census of Agriculture* identifies **78,042 acres** of land in farms, of which **34,830 acres** meet both the soils and tillable land Minimum Eligibility Criteria for farmland preservation. Thus slightly half of the existing farmland in Warren County (45%), as defined by the *2002 Census of Agriculture* meets both the soils and tillable land Minimum Eligibility Criteria as defined by the SADC.

In addition to the State's new Minimum Eligibility Criteria, the SADC has also identified an "Eligible Farm" standard as defined in section 17.2 of the newly adopted rules. In this case, grant funding will be based upon an individual farm having a rank score that is "*equal to or greater than 70% of the county's average quality score of all farms granted preliminary approval by the SADC through the county easement purchase program and/or the county planning incentive grant program within the previous three fiscal years.*" The SADC has released this rank score for Fiscal Year 2009 for Warren County, the minimum score for an Eligible Farm is 38. A detailed score listing is included within the *Appendix*.

County Ranking Criteria

The Warren CADB currently utilizes the state ranking criteria as the basis for calculating the rank of each farm. The CADB has developed its own Ranking Sheet (included within the *Appendix*) that determines each of the following for individual applicant farms:

- the quality of the local soils
- total tillable acres available
- local buffers and boundaries
- zoning
- County growth and existing infrastructure
- municipal commitment to agriculture
- other financial commitment to agriculture

Points are received in each category relevant to the suitability of the local conditions for agriculture. The higher the score received, the higher the ranking. At each monthly meeting of the Warren CADB all farms that have applied will be evaluated and, unless some unforeseen circumstance dictates otherwise, the farms will be submitted in the order of ranking until SADC funding is exhausted. At that point, eligible farms will be submitted for the "competitive" round.

As the County transitions to the new County Planning Incentive Grant program, the CADB will be using the State's minimum eligibility criteria as the basis for ranking farms for preservation. In special cases where a farm is of special interest, and the CADB purchases land without state funding, it may consider using its current ranking form to prioritize farmland for preservation.

County Policies Related to Farmland Preservation Applications

The Warren CADB follows the SADC's policies regarding housing opportunities, division of premises and exception areas. Below is a brief summary of the state policies for each of these issues:

Approval of Housing Opportunities

Agricultural labor housing: Agricultural labor housing is not currently protected under the Right to Farm Act in the State of New Jersey. However, the State Agriculture Development Committee understands the need for this type of housing and does have a policy that a landowner must refer to in order to construct labor housing. These applications are reviewed by the State Agriculture Development Committee and the County Agriculture Development Board.

House replacement: The policy of the State Agriculture Development Committee on house replacement is that requests for replacement of a residence on permanently preserved land must be reviewed and approved on an individual basis by the CADB and the SADC, in order to minimize the impact on the agricultural operation.

Residual dwelling site opportunity allocation: Residual Dwelling Site Opportunities (RDSOs) are lingering potential housing prospects located within a deed-restricted farm. By designating an area as an RDSO, the landowner is implying that the land will be used for a residential unit or other structure as referred to in N.J.A.C. 2:76-6.17. These prospective residential units can be allocated to parcels that are at least 100 acres in size. The purpose of the building in question must be for "single-family residential housing and its appurtenant uses." (*SADC Appraiser Handbook 2007*)¹ To qualify as an RDSO, the SADC requires that the use of the residential unit be for agricultural purposes and "at least one person residing in the residential unit shall be regularly engaged in common farm site practices."

The Warren CADB supports and provides consistency with SADC policies in all cases, but take note and address the unique conditions of each application as it is submitted.

Division of the Premises

The goal of the State Agriculture Development Committee is to preserve large tracts of farmland and, therefore, a division of the premises is not an encouraged practice, however when division occurs it must be for agricultural purposes and must result in agriculturally viable land parcels. A landowner wishing to divide permanently preserved farmland must submit a written request. The application must be approved, in writing, by both the State Agriculture Development Committee and the CADB.

Approval of Exception

Exceptions are defined by the SADC as “acres within a farm being preserved” which are “not subject to the terms of the deed of easement.” When an exception is made, the landowner does not receive any compensation in the excepted area. Exceptions are not a practice that is encouraged by the SADC and, when they occur, it is recommended that they should be as small as possible. There are two types of exceptions that can occur; severable and non-severable.

Severable: A severable exception is defined by the SADC as an “area which is part of an existing Block and Lot owned by the applicant which will be excluded from the restrictions of the Deed of Easement and may be sold as a separate lot in the future.” (*SADC Appraiser Handbook 2007*) A severable exception is made “if a landowner wants to be able to sell the excepted area separate from the deed-restricted farm.”

Non-severable: Non-severable exceptions are defined by the SADC as “area which is part of an existing Block and Lot owned by the applicant that will not be subject to the restrictions of the Deed of Easement but cannot be sold separately from the remaining premises.” (*SADC Appraiser Handbook 2007*) Unlike a severable exception, a non-severable exception is “always attached to the protected farm.”

Exceptions made to farmland have the potential to impact the value of the property. When an appraisal occurs, both severable and non-severable exceptions are considered in the determination of the restricted/ after value of the property. The Warren CADB reviews requested exceptions with the applicant to determine the advisability of the need and type of exception at issue. This is evaluated on a case by case basis taking into consideration the conditions that are unique to each applicant.

Funding Plan

Description of County Funding Sources

Prior to the establishment of the dedicated Trust, Warren County funded farmland preservation through a bond. The Warren County Open Space Preservation Trust Fund was initially established in January 1995 and set at two cents. It was subsequently increased in 1999 and again in 2003. The present trust is now at six cents and in 2007 generated approximately \$7,800,000 for farmland, open space, and historic preservation. The present division for the Trust Fund is: 55% farmland, 25% municipal and charitable grants and 20% open space. Approximately 6% to 7% of the Trust is used for administrative costs.

Of the available funding in 2007, approximately \$4,500,000 is available for farmland preservation. To date Warren County has expended \$18,591,819 on 150 projects preserving 15,125 acres. This year, County has available \$8,928,000 in funding of which, \$7,204,675 is encumbered and set aside for farms with final approvals.

Financial Policies Related to Cost-share Requirements Between County and Municipal/ Other Funding Partners/ Installment Purchases

Warren CADB will fund one-half of the difference between the state match and the total cost for preserving a farm, based upon the Certified Market Value, through the municipal Planning Incentive Grant program. The remaining half is funded by the municipalities in the PIG program.

The Warren CADB is supportive of donation/bargain sales and has not recently preserved farms using an installment purchase. Both of these tools serve to leverage limited funding resources and are described below:

Donation and Bargain Sale: This mechanism for preserving a farm involves a donation by the landowner. If the landowner donates a portion of the value of the development rights when an easement is sold, this is called a bargain sale. A bargain sale can result in substantial tax savings for the landowner and can stretch County farmland preservation funds. The landowner donation is a reduction in the amount of gain that is subject to the capital gains tax, and the landowner can take a tax deduction for the amount donated against his or her federal and state income taxes.

Installment Purchase: Through an installment purchase agreement, development rights may be acquired by the Warren CADB through a payment plan that provides payments to the landowner over time. Receiving the income from the sale in installments may provide the landowner with financial management and/or tax advantages. An example of this is the Marra Farm in Washington Township. While the County supports the concept of installment purchase agreements, it has not been generally accepted by applicants.

Cost Projections and Funding Plan Associated with Preservation Goals

The Warren County Open Space Recreation Farmland Preservation Trust Fund generates approximately \$7.8 million annually. Of this, \$4.5 million is available for farmland preservation this year.

Since 2005, the average cost per acre has increased from \$4,260 an acre in 2004 to \$4,903 an acre in 2005 (13% increase) to \$5,256 an acre in 2007 (19% increase over the three years) (see *Program History Table* in *Chapter 4*). On average, the County pays between 25% and 30% of the cost of an easement with the State paying the remaining share. Since 1989, the average price of purchasing a development easement in Warren County is \$4,559 per acre.

For the 10-year financial analysis, six assumptions were made regarding the growth of the County's Open Space Tax Levy, the rate of increases in land prices and the cost-share between Warren CADB and the SADC. These are described below:

- 1) assume 5% funding growth for Warren County Open Space tax levy
- 2) assume 10% annual increase in the average cost per acre of purchasing an easement

- 3) assume County funding is reduced 10% for administrative costs and due diligence
- 4) assume County funding is not encumbered by prior obligations
- 5) assume County funding is used to pay 100% of the cost of purchasing 100 acres of farmland each year
- 6) assume the County cost share is between 25% and 30%, but for this analysis a variety of cost shares are calculated, using 30% as the minimum participation.

The Open Space Tax Levy is anticipated to grow at a rate of 5% each year. It is also estimated that on average, land values will increase by 10% per year. In special cases where a farm is of special interest, the CADB may purchase land without state funding. For the purposes of this analysis, it is assumed that Warren County may purchase, on average, two 50-acre farms each year as a County direct purchase. Using these assumptions, the following analysis was completed to calculate the funding available to Warren County for farmland preservation:

	Year	Funding for Available Less Administration	Funding Available After Purchasing 2 50-Acre Farms	Average per Acre Cost
1	2007	4,050,000.00	\$ 3,524,400.00	\$ 5,256.00
2	2008	4,252,500.00	\$ 3,674,340.00	\$ 5,781.60
3	2009	4,465,125.00	\$ 3,829,149.00	\$ 6,359.76
4	2010	4,688,381.25	\$ 3,988,807.65	\$ 6,995.74
5	2011	4,922,800.31	\$ 4,153,269.35	\$ 7,695.31
6	2012	5,168,940.33	\$ 4,322,456.27	\$ 8,464.84
7	2013	5,427,387.34	\$ 4,496,254.88	\$ 9,311.32
8	2014	5,698,756.71	\$ 4,674,511.00	\$ 10,242.46
9	2015	5,983,694.55	\$ 4,857,024.27	\$ 11,266.70
10	2016	6,282,879.27	\$ 5,043,541.97	\$ 12,393.37

Using the above funding formula, and the average cost per acre in Warren County, an analysis was completed to calculate the amount of land that could be purchased in Warren County. At a 30% cost share with the state, the County could preserve slightly more than 2,000 acres each year. Due to uncertainty in the availability of state funding, the analysis was run at 10% intervals. With no funding from the state, the ability of the County to purchase and preserve farmland would be extremely limited. This table also includes municipal PIG projects, since the County cost shares in these as well.

Average per Acre Cost	Year	County Cost Share = 30% (plus 100 ac County direct)	County Cost Share = 40% (plus 100 ac County direct)	County Cost Share = 50% (plus 100 ac County direct)	County Cost Share = 60% (plus 100 ac County direct)	County Cost Share = 70% (plus 100 ac County direct)	County Cost Share = 80% (plus 100 ac County direct)	County Cost Share = 100% (plus 100 ac County direct)
		Acres Preserved Per year						
\$5,256.00	2007	2,335	1,776	1,441	1,218	1,058	938	771
\$5,781.60	2008	2,218	1,689	1,371	1,159	1,008	894	736
\$6,359.76	2009	2,107	1,605	1,304	1,103	960	853	702
\$6,995.74	2010	2,001	1,525	1,240	1,050	915	813	670
\$7,695.31	2011	1,899	1,449	1,179	1,000	871	775	640
\$8,464.84	2012	1,802	1,377	1,121	951	829	738	611
\$9,311.32	2013	1,710	1,307	1,066	905	790	704	583
\$ 10,242.46	2014	1,621	1,241	1,013	861	752	670	556
\$11,266.70	2015	1,537	1,178	962	818	716	639	531
\$ 12,393.37	2016	1,457	1,117	914	778	681	609	507
total acres:		18,687	14,265	11,612	9,843	8,580	7,633	6,306

Farmland Preservation Program CADB Administrative Resources

Staff resources

The County of Warren has a Land Preservation Department that is staffed by Robert Resker, Director, Susan Beall, Administrative Clerk and Teresa Kaminski, Confidential Aide. The Warren County Agriculture Development Board (CADB) meets the third Thursday of each month. The CADB is composed of seven members and five associate members including the Rutgers Cooperative Extension Agricultural Agent, U.S. Natural Resource Conservation Service, County Planning Director, Planning Board and a representative from the Freeholder Board. Joel Schnetzer is the Chairman of the Warren CADB. The Land Preservation Department oversees Warren County's land preservation program with the County's Agriculture Development Board focus on the farmland preservation program.

Legal support

Legal support for the County's farmland preservation program is provided by special council, Sirkis and Lavery, in Hackettstown.

Database Development and Geographic Information System Resources

The Warren County Department of Land Preservation tracks all farmland preservation projects, including their applications and status. The Department of Planning houses the

Geographic Information System mapping and staff and provides that service to the Warren CADB and all other county agencies.

Factors Limiting Farmland Preservation Implementation

Funding

Funding is the most critical limiting factor for Warren County's farmland preservation program. The high rate of farmland preservation in Warren County has been attributable to the availability of state funds and the ability of the County to leverage its own funding with state and local financing. Warren County strongly supports the municipal PIG program and would like to see it grow. Funding from the state is critical to the integrity of the municipal PIG program. Due to the current uncertainty in state funding for farmland preservation, Warren County's program faces financial challenges as it moves forwarding in purchasing and preserving land during the next ten years.

Projected Costs

The value of a development easement in Warren County will vary based upon where the easement is located. For example, easements in areas with poor, rocky soils (such as Hardwick) will cost less than easements in areas where soils are more optimal (such as Greenwich). In addition, the value of a development easement in Warren County has increased nearly 20% over the past three years. (See *Program History* table in *Chapter 4*) This trend is one that will continue into the future. Much of Warren County's most productive farmland is within the Highlands Planning Area, and thus susceptible to competing development interests and increased land values.

Land Supply and Landowner Interest

As reported in the Census of Agriculture, Warren County has lost 10,000 acres of farmland in a recent ten-year period. Once lost to residential or commercial development, this land cannot be replaced. Of the 78,042 acres of farmland in Warren County, **34,830 acres** are potentially eligible for farmland preservation based upon the new SADC Minimum Eligibility Criteria. The Board of Chosen Freeholders has set a goal of preserving **20,000** acres by 2010, and the CADB is working steadily to meet this goal. Landowner interest remains high and applications continue to be submitted to the CADB for their review. Warren County prides itself on innovative partnerships, which can be seen by the popularity and success of the municipal PIG program (ten towns enrolled!), and local conservation projects with local nonprofit groups, including the Ridge and Valley Conservancy and Morris Land Conservancy. It will take the effort and teamwork of landowners, government officials, nonprofit organizations, and local residents to ensure the farmland preservation program remains popular, supported and successful.

¹ State Agriculture Development Committee, New Jersey Farmland Preservation Program Appraiser Handbook. <http://www.state.nj.us/agriculture/sadc/appraiserhandbook.pdf>. Accessed May 24, 2007.

CHAPTER 6: ECONOMIC DEVELOPMENT IN WARREN COUNTY



Warren County is a leader in the State of New Jersey in agricultural production. Dairy, crops, and hay form the economic base of the farming industry in Warren County. Building upon this, are the ancillary businesses and infrastructure which support the County's farmers. Throughout the state, the marketing and profitability of the agricultural industry has gained renewed focus. The farmland preservation program is a critical component of the farming industry, and the success of the farmland preservation program in Warren County is not measured just by acres preserved, but also by the programs put in place to support the farmers and their businesses. The County's agricultural community and its supporting groups and agencies understand that a farmland preservation program constitutes much more than the act of preserving land. In order to be a full partner in a successful farmland preservation program, agriculture as an industry must be vibrant, self sustaining, and innovative.

The State of New Jersey offers Warren County farmers a number of support agencies and programs ranging from technical advice to farm loans. The New Jersey Department of Agriculture (NJDA) *Smart Growth Tool Kit* provides information to support municipal governments, businesses, non-profit groups, and local citizens in their efforts to achieve the goals and objectives outlined in the NJDA *Agricultural Smart Growth Plan for New Jersey, 2006*. (*Agricultural Smart Growth Tool Kit*)¹ (*Agricultural Smart Growth Plan 2006*)² The Tool Kit embraces the five components that have been identified by NJDA as critical for the future of farming: Farmland Preservation, Innovative Conservation Planning, Economic Development, Agriculture Industry Sustainability, and Natural Resource Conservation.

As part of this emphasis on the business of agriculture, the NJDA has issued its 2007 "Economic Development Strategies", which identifies and proposes strategies to expand and strengthen various sectors of the agriculture industry in New Jersey, including produce, horticulture, dairy, livestock and poultry, field crops, organic, equine, wine, and Agritourism. The NJDA observes that "*local access to large affluent markets has long been an advantage for the marketing of (those) products. While our markets are still there, competition for those markets has become tougher. New Jersey's (produce) industry must continually work to rediscover its competitive advantages, improving access to nearby markets and strengthening consumer loyalty.*" (*Economic Development Strategies*)³ Warren County farmers continue to look for ways to explore new markets, promote their products, and increase the profitability of their agricultural operations.

2007 NJDA Economic Development Strategies

One of the major efforts undertaken by the NJDA is to identify products grown in New Jersey through branding, Agritourism, farm direct sales programs, and farm markets. The NJDA *Economic Development Strategies* for 2007 support the promotion of Jersey products through a variety of markets and mechanisms. (*Economic Development Strategies*) NJDA is committed to promoting Agritourism through the New Jersey Office of Travel and Tourism, the Jersey Fresh website, the distribution of printed materials, and other forms of advertisement. Warren County farms with appropriate activities, as well as County farmers markets and pick-your-own farms, benefit from this state-wide effort.

NJDA's Jersey Fresh and Jersey Grown labels program is expanding its efforts to promote locally grown produce. The Department will continue to increase the Jersey Fresh Hospitality Industry Program. This program works closely with industry to market Jersey Fresh produce to the hotel, restaurant, educational, and institutional food services. This will strengthen the appeal of the Jersey Fresh brand to supermarket chains and all other retailers. The goal is to increase the use of the Jersey Fresh brand name and discourage the use of the "Locally Grown" product claim. Also, by recently establishing the Jersey Organic brand, the Department will continue to promote New Jersey grown organic products as distinct from, and of higher value than, competing products. (*Economic Development Strategies*)

In addition to its dairy and livestock operations, Warren County is among the state-wide leaders in nursery and greenhouse production. In the 2002 drought year, the agricultural industry accounted for \$39.7 million of Warren County's over \$9 billion in total business sales. For 2002, crops (including nursery and greenhouse operations) brought in \$18.4 million, and livestock and poultry (and their products) generated \$21.3 million. Using recommendations outlined in the 2007 "*Economics Development Strategies*" report, Warren County can build upon this strong agricultural base and continue to direct county programs to ensure sustainable agriculture practices and profitability.

The following is a brief discussion of each of the sectors of Warren County's agriculture industry as they relate to the 2007 "*Economics Development Strategies*" report. For each of the sectors, the 2007 report indicates that Warren County farmers should continually seek new local, state, and interstate markets to strengthen market share.

Produce which includes vegetables, fruits, grains, oilseeds, beans and dry peas accounted for total crop sales of \$9.2 million in 2002, or 50% of all crop products. In 2002, the vegetables sub-sector alone accounted for 2,098 acres, and \$4.4 million in sales, or 48% of the produce sector. Due to 2002 drought-related losses, produce sales figures are likely skewed downward as compared to other years. Vegetables in particular are an important component of the County's farm stand and farmer market industry, with vegetables ranking second in the county for agricultural commodity value in 2002. (*Warren County Agricultural Profile*)⁴ Since they do not require as much land to grow, the county can continue to strengthen and expand the produce sector of the agricultural economy as opportunities arise. Some strategies Warren County could follow are:

- Strengthen the *Jersey Fresh Hospitality Program*;
- Promote the *Jersey Fresh* brand;
- Explore “Contract Growing”, that is, growing produce for specific customers on a contract basis;
- Promote farm markets and pick-your-own operations;
- Aggressively market value-added produce products, such as jams and jellies; and,
- Explore various additional products and markets for produce, including local restaurants and grocery markets, and institutions such as schools, hospitals, and prisons.

Nursery, greenhouses, floriculture and sod are important agricultural commodities in Warren County, ranking first in sales for the county’s crop products. This agricultural sector accounted for total sales of \$7.6 million in 2002, or 41% of total crop sales in the county. Whereas other crop categories have remained stagnant or fallen in recent years, sales figures for this sector of the crop industry have risen steadily since 1987, when it was at \$1.1 million. One likely and major reason this sector of the crop industry has become so important is due to the continued non-agriculture population growth in the county and region, providing a ready market for these products. The County can continue to strengthen and expand this sector of the agriculture economy as opportunities arise. Some strategies to follow are:

- Support efforts by NJDA to ensure plant health and disease-free material;
- Increase consumer awareness of the *Jersey Grown* brand;
- Seek contracts with large box store operations such as Home Depot and Lowes; and,
- Promote “drive up” operations where consumers can buy directly from the nursery or greenhouse.

Dairy has historically been the dominant agricultural sector in Warren County. Though still formidable, dairy production has steadily trended downward since 1972, when the County produced over 135 million pounds of milk. By 2005 this quantity had fallen to 35 million pounds, the county’s all time low. The decrease is further reflected by the fact that in 1987 there were 118 dairy farms, as compared to only 45 in 2002. From 1987 to 1997 sales of dairy products decreased from \$12.6 million to just over \$9 million, a nearly 29% drop. A combination of high input costs (land prices and taxes), low milk prices, and unfavorable weather conditions have driven this trend, which may very well continue if strong steps are not taken to reverse it. To sustain and augment the county dairy industry, some strategies Warren County could follow are:

- Promote *Jersey Fresh* dairy products locally and statewide;
- Explore various additional products and markets for dairy, including local restaurants and grocery markets;
- Work to ensure the health of the dairy industry, and the quality of raw and processed milk;
- Work to bring a local processing creamery back to the area;

- Work to bring more livestock veterinarians back to the area. This strategy can include economic incentives, as many veterinarians prefer to treat house pets (dogs, cats, etc.) since it is more profitable;
- Aggressively market value-added dairy products; and,
- Work to lower high input costs, such as property taxes, on dairy farms.

Corn for grain has historically been the dominant field crop in Warren County. In 2002 over 27% of agricultural lands in the county were tilled for corn. However, due to the 2002 drought, that year's production was at a 36 year low of approximately 1.25 million bushels. Sales figures were also lower than usual, at \$3.8 million. Since then, production has risen to approximately 2 million bushels in 2006. Corn requires relatively less labor and costs inputs than produce, nurseries and greenhouses, and livestock, making it more profitable. It is also grown on livestock farms as feed for animals. Therefore, much of the corn grown never makes it to market, and is not included in any census sales figures. To continue and expand its strong market place in the county economy, some strategies Warren County could follow are:

- Explore ways to produce renewable fuels, thus adding a ready market for Warren County corn; and,
- Support the livestock industry which uses corn as feed.

Hay accounts for a small but significant portion of the county's agriculture sales. In 2002 and 2005, approximately 28,000 tons of hay were produced, the third highest state yield. However, these totals are by far the lowest ever recorded for the county. In part, the 2002 drought accounts for that year's low yield. Much of the hay is grown as feed on livestock farms, never making it to market, and is therefore not included in census sales figures. To continue and expand its strong market place in the county economy, some strategies Warren County could follow are:

- Explore new markets, and also ways to expand existing markets; and,
- Support the livestock industry which uses hay as feed.

Livestock and poultry operations include non-dairy cattle, sheep, hogs, and poultry. This has historically been a strong agricultural sector in Warren County. Due to high input costs, many farmers have opted not to engage exclusively in dairy farming, but rather are sectoring their farms into various agriculture products, such as other livestock. If input costs continue to increase it is possible the dairy industry may continue to decline, but the County's farmers can see this as an opportunity to diversify to other agricultural products such as non-dairy cattle, poultry, hogs, and other animals.

Non-dairy cattle are the leader in non-dairy livestock agriculture for Warren County with 5,600 head in 2006, and 187 farms in 2002. Sales of non-dairy cattle exceeded \$1.25 million in 1997, when the number of non-dairy cattle was 5,700. With the slightly lower 2006 figure for number of non-dairy cattle, sales of non-dairy cattle and their products are likely comparable for 1997 and 2002.

Poultry, which includes egg production, meat chickens, turkeys and ducks, is another large livestock industry in Warren County. With over 100,000 chickens, the Ise Poultry Farm in Franklin Township produces the majority of eggs. However, there are 113 smaller scale egg production farms of less than 100 animals. Farms with meat chickens and other birds are also small, selling an average of 68 birds annually.

Hog and sheep farms constitute a relatively small sector of the Warren County agriculture landscape. In 2002, hog farm operations earned \$60,000 with 692 hogs on 44 farms. Sheep farming has exhibited an upward trend from 1997 to 2002, with 1,186 and 1,921 animals, respectively.

To strengthen and expand its place in the county economy, some non-dairy cattle, sheep, hogs, and poultry strategies Warren County could follow are:

- Ensure animal health;
- Explore various additional products and markets, including local restaurants and grocery markets;
- Work to bring more livestock veterinarians back to the area. This strategy can include economic incentives;
- Aggressively market value-added dairy products from goats;
- Assist farmers with farming techniques, regulatory requirements and the latest research for livestock and poultry. This would include continued and additional cooperation with the Rutgers Cooperative Extension of Warren County, NJDA and NRCS; and,
- Promote the Agritourism portion of livestock and poultry, such as petting zoos.

Organic Farming, including crops and animals, is a potentially important market for Warren County. With the increased consumer awareness in food production, organic products and the markets that support them will continue to gain a stronghold on the agricultural economy and become more “mainstream” as people demand high quality, readily accessible, and affordable, organic products. Certification of organic farms is regulated by the U.S. Department of Agriculture via the Organic Food Production Act of 1990, and can be somewhat costly and time consuming as compared to non-organic farming. This may dissuade some farmers otherwise amenable to this type of farming. “Natural” farming is a type of farming that seeks to emulate organic farming, but is not overseen by laws or regulations, as is organic farming. Natural farming is somewhat less costly and time consuming than “organic”, and therefore may be a viable option for some farmers, and their potential customers. With its strong produce sector, Warren County is in an excellent position to facilitate the market growth of organic and natural agriculture products. Warren County can explore:

- Improve marketing of organic and natural produce;
- Explore various additional markets, including local restaurants and grocery markets;
- Promote Agritourism for organic and natural farms stands;

- Work with NJDA to expand the “Jersey Organic” Brand as a way to promote and market organic products;
- Educate growers about organic and natural regulatory and certification requirements; and,
- Explore ways to support organic food growing and processing.

Equine is a small but viable agriculture sector in Warren County. For the 2005 tax year, there were 1,638 head of equine in the county, with 222 acres devoted to boarding, 44 acres to rehabilitation, and 124 acres to training. (*New Jersey Farmland Assessment 2004*)⁵ Equine acreage grew slightly from 403 acres in 2000, to 412 acres in 2004. (*Warren County Agricultural Profile*) As can be seen from these figures, many of the equine farms in Warren County consist of pasture and stable horses, and provide riding lessons. This fact is not reflected in any sales figures, but contributes to the County’s economy. To continue and retain the County’s market share in the state and regional equine industry, Warren County farmers can:

- Ensure the health of horses;
- Promote the industry at shows and festivals, such as the annual Warren County Farmer’s Fair; and,
- Promote the Agritourism aspect of the equine industry through petting zoos, horse and pony rides, and boarding and riding lessons.

Wine is a small but viable piece of the Warren County agricultural industry. At present, the county has two wineries. Four Sisters Winery at Matarazzo Farms is in White Township, and is an award winning winery, with over 35 regional, national, and international awards. They also host many events, including corporate picnics and weddings. This year Four Sisters Winery hosted the New Jersey Wine and Blues Festival in June, attracting visitors from throughout the region and state. (*Four Sisters Winery*)⁶ Alba Vineyards is located in Pohatcong Township, in the southwest corner of the County. Alba Vineyards hosts numerous public events, plus corporate gatherings and private events up to 300 people. It has also been the recipient of numerous local, national and international awards. (*Alba Vineyard*)⁷ As of 2002, Warren County had 47 acres in grape production. (*Warren County Agricultural Profile*) To encourage the growth of this small, but potentially important market, Warren County can:

- Encourage increased wine production;
- Encourage county wine festivals, and participation in New Jersey annual wine festivals and tours;
- Coordinate with wineries from other New Jersey counties, and New York and Pennsylvania, to grow a regional wine industry;
- Encourage additional cultural and agricultural events in association with wine festivals; and,
- Market wines to local restaurants and retail stores.

Agritourism is an important link in the long term sustainability of Warren County's agriculture industry. According to the 2007 "*Economic Development Strategies*", "*Agricultural tourism draws upon two great strengths of the Garden State, a rich agricultural heritage and a large population of affluent consumers*", and "... *Agritourism is critical to ensuring the future viability of agriculture in the state.*" (*Economic Development Strategies*) Agritourism can be not only county wide and regional, but also interstate to draw visitors from the neighboring states of New York and Pennsylvania.

Warren County has a successful Agritourism program, as evidenced by the many farm stands, pick-your-own operations, and also the Washington Borough Weekly Farmer's Market held on Fridays from 3 to 7 p.m., between June and September. The Farmer's Market is now in its fourth year. The Warren County Agriculture Development Board can investigate the possibility of establishing a permanent, three season farmer's market, which would greatly assist local farmers in selling farm and value-added products, thus strengthening the business of agriculture within the county.

The county's Agritourism program is highlighted by the brochure entitled "Enjoy Four Seasons of Agriculture in the New Jersey Skylands." This informative brochure includes the seven counties of Bergen, Hunterdon, Morris, Passaic, Somerset, Sussex and Warren, and provides names, addresses, websites and telephone numbers of farms within the seven counties, and the types of activities (such as hayrides). The brochure also lists ancillary facilities for tourists to enjoy, such as camping, bed and breakfasts, and state parks and forests. The brochure is available at www.njskylands.com.

A highly successful example of Agritourism in the county is the seven-day Warren County Farmer's Fair held yearly at the County Fairgrounds in Harmony Township. The Farmer's Fair highlights the past and present agriculture heritage of Warren County, has been operating since 1937, and is extremely popular with area residents, drawing thousands of visitors each year. (*Warren County Farmer's Fair*)⁸ More information on the fair can be found at <http://www.warrencountyfarmersfair.org/>.

Included within the *Appendix* is a list of the farm stands and pick-your-own farming establishments found throughout Warren County. The Warren County Agriculture Development Board can consider establishing a permanent signage program to alert and direct tourists, and local residents, to these establishments. Signage could help increase business and income for these farming establishments.

Agricultural Industry Retention, Expansion and Recruitment

By providing key strategies and techniques, the NJDA 2007 "*Economic Development Strategies*" endorses as critical the expansion and strengthening of all areas of the agriculture industry. (*Economic Development Strategies*) There are many key items to the economic expansion, development, and solidification of Warren County's agricultural industry. Certainly, diversity of agricultural commodities to broaden the agricultural base now dominated by corn, dairy, and horticulture would help to ameliorate any economic

downswing in either the general economy or a specific sector of the county's agriculture industry. Some key items that the Warren County agriculture community can consider for economic development and sustainability are:

“Sell” agriculture as part of the Warren County “landscape”. There are competing demands on Warren County's land base. There has been a decline in amount of farmland acreage in Warren County (87,358 acres in 1982 as compared to 78,042 acres in 2002 (*Warren County Agricultural Profile*)), as land is lost to residential and commercial development. Contrasting this is the highly successful County farmland preservation program, having protected over 15,000 acres since 1989.

As more and more Warren County farmland becomes preserved, and support for agriculture is woven into various sectors of the County's economy, farming will indeed become a permanent facet of life in Warren County, diminishing any perceived agriculture impermanence syndrome the general public may have. A coordinated effort to “sell” agriculture as a way of life that is enduring and significant to the county and its economy, will ensure area residents are aware of the enduring benefits of farmland, and solidify public economic support for the agriculture industry. Signage on preserved farms and other outreach mechanisms, such as adult and youth farmer education, the Warren County Farmer's Fair in Harmony Township, Washington Borough Farmer's Market, farm stands and pick-your-own operations, and Community Supported Agriculture will work to enhance farming throughout the County.

Supply products including farming equipment such as tractors and diskers, seeds, fertilizers, herbicides, fungicides, pesticides, etc. Large scale agriculture suppliers, which supply medium to large size agriculture operations, no longer exist in Warren County. The only suppliers in the area are several small, local suppliers. Without an adequate amount of suppliers within reasonable driving distances of farms, the business of farming can become so expensive and time consuming, so as to not be profitable. The county agricultural community can pursue options, which may include tax incentives, to entice suppliers to return to Warren County. As agriculture in Warren County becomes more “permanent” through increased preservation efforts, former suppliers who have left the area may return if they sense that a profitable supply business can be operated in the area.

Some farmers now purchase equipment parts from suppliers via United Parcel Service, Federal Express, or similar delivery services. This is becoming more of an option, and a necessity, as fewer supply stores are in the area. However, since delivery prices are relatively low, and farmers do not have to take the time to physically drive and pick up parts and supplies, this can actually be an economical way to receive certain parts and supplies. Mail order will not work for delivery of bulk supplies such as feed or fertilizer, which must be picked up at distant locations, or delivered for a fee.

Equipment and supply stores in the area include:

- Gro-Mart in Bloomsbury, Hunterdon County
- D&R Equipment in Ringoes, Hunterdon County

- New Holland Equipment in Washington Township, Warren County
- Smiths Tractor in Washington Township, Warren County
- Frank Rymon and Sons in Washington Township, Warren County
- Tractor Supply in Sussex County
- Farmside Supplies in Sussex County

Inter-county cooperation and healthy competition among New Jersey counties with strong agricultural economies and heritages should be the norm, not the exception. The more broad based (i.e. multi-county or state-wide) agriculture is, the better chance it has to succeed long term. This cooperation to strengthen the agricultural base is evidenced by marketing efforts such as the successful brochure “Enjoy Four Seasons of Agriculture in the New Jersey Skylands”. Regular cooperation among the different County Agriculture Development Boards, Boards of Agriculture, and local Chambers of Commerce, is critical to this effort.

Farmers need to be adaptable to farm for, and supply, emerging markets in and out of the county. Farms in the county, while increasing in total number from 1982 (608) to 2002 (814), have decreased in average size during that same time period (144 acres in 1982, down to 96 acres in 2002). (*Warren County Agricultural Profile*) This decrease in farm size, also typical of other New Jersey farming counties, is due in large part to the decline of large acreage dairy farms. Subsequently, farms are being subdivided to facilitate the increase in beef cattle, equine, nursery and greenhouse, sheep, and goat farms, which require less acreage. As an example of adaptability, the county’s larger farms can (and do) grow hay and corn for the rising equine and beef cattle industries within the county. Also, smaller farms mean more opportunity to focus on specialized farm products for designated customers. As agriculture is indeed a business, farmers must continue to be adaptable to change with the needs and wants of its customer base. Support from the Warren County Agriculture Development Board, Board of Agriculture, N.J. Farm Bureau, and Community Supported Agriculture groups is vital to help the agriculture community be adaptable, and stay profitable.

Market Research – Working closely with Rutgers University Food Policy Institute, and the Rutgers Cooperative Extension of Warren County, the County’s agriculture community may identify and integrate market research on agriculture and economic trends. In this way, Warren County will remain a leader in New Jersey’s agriculture community. The Food Policy Institute can be reached at (732) 932-1966.

Promote in-state, permanent markets – The county agriculture community can seek contracts with state agencies such as the Department of Corrections for prison use, and for all levels of schools, to supply healthy, fresh farm products for use in their cafeterias. Area hospitals and senior/nursing homes are also possible customers. Since all of these are permanent institutions, once established these markets can be considered as “permanent customers” and revenue sources for the Warren County agriculture community.

Flexible regulatory programs with various agencies – The 2006 *Agricultural Smart Growth Plan for New Jersey*, prepared by the NJDA, identified flexibility in government

regulation as an important component relative to farm viability. (*Agricultural Smart Growth Plan 2006*) The Warren County Agriculture community can work with the New Jersey Department of Agriculture, and through advocacy groups such as the New Jersey Farm Bureau and Warren County Board of Agriculture, to ensure regulatory flexibility to the greatest extent possible. Examples where regulatory flexibility is important are the New Jersey Department of Environmental Protection's Freshwater Wetlands Protection Act Rules" (N.J.A.C. 7:7A-et. seq.), which grant exemptions for agricultural activities, and also the Flood Hazard Area Control Act Rules (N.J.A.C. 7:13). The latter was recently readopted, and includes numerous agricultural permits-by rule and general permits, which allow the continuation of agriculture activities in otherwise regulated areas.

The New Jersey Farm Bureau (Bureau) is an advocacy group for New Jersey farmers. Its mission "*is to represent agricultural producers and enterprises at all levels of government - local, state, federal and international. This representation includes the influence of regulations and laws, the creation of positive public relations, and the seeking out of initiatives, activities and ventures to help the profitability of the producer members. This organization will remain faithful to the democratic process managed by representatives from every part of the state*" Robert Frey is the Director for the Warren County Chapter, and Sam Race is the alternate. (*New Jersey Farm Bureau*)⁹

Discussions with the Bureau indicate that farming is extremely difficult in Warren County and the state due to three major factors. The first of these is due to high property taxes, high land values, and high insurance costs; farming in New Jersey is extremely expensive relative to other parts of the country, which in turn reduces profit margins for New Jersey farmers. Simply put, it is extremely difficult to make money as a farmer in Warren County. Second, the regulatory environment in New Jersey is extremely harsh, mostly due to NJDEP regulations. Examples are required stream buffers, which reduce acreage which can be farmed, and also protection for threatened and endangered species. Third, is that commodity prices in New Jersey are lagging behind other parts of the country, and a farmer's time is therefore not adequately compensated. Suggestions to make farming more profitable for New Jersey farmers include:

- A moratorium on downzoning, since this lowers a farmer's land equity;
- An immigration bill with a guest worker program;
- More regulatory flexibility;
- Full funding for open space; and,
- Full funding for Transfer of Development Rights, especially in the Highlands Region.

(*Peter Furey, New Jersey Farm Bureau*)¹⁰

Warren County has much cropland devoted to corn, and other farm products, which could be used to produce ethanol. At present, there are no plans to build an ethanol plant in the northern part of New Jersey. However, there is potential that such a plant could be built in the southern part of New Jersey, or in Delaware State. (*Steve Komar*)¹¹ Warren County can closely follow developments relative to such a plant, and farmers can poise themselves to sell "raw materials" to an ethanol plant. Such a plant could prove to be an

economic engine for Warren County farmers. Perhaps Warren County farmers could, in conjunction with farmers from adjacent counties, form a cooperative to share the cost and logistics of shipping raw materials to an ethanol plant. The County can also encourage state and local governments, as well as constituency groups, to encourage the development and building of an ethanol plant.

It should be noted that switchgrass utilizes less of the groundwater resource, and fewer pesticides and other chemicals, than corn. (*Kent Hardmeyer*)¹² As such, the county can consider encouraging the appropriate entities to develop an ethanol plant that utilizes more switchgrass than corn. Such a plant could not only aid the economic development of Warren County, but would also add to the long term goal of natural resource conservation.

Warren County can work closely with municipalities to encourage towns to include agriculture in economic development plans, municipal master plans, and local zoning, and to engage towns to support locally grown agriculture and Agritourism. This “bottoms up” approach would foster a broad base for agriculture within the county, helping to assure economic viability. One way for townships to support locally grown agriculture is to pass and enforce Right to Farm ordinances. Fourteen of the 22 municipalities in Warren County have such ordinances, which are presented in *Chapter 8* of this plan.

Minimum wage impact on farm businesses – In January 2006, the “Agriculture Transition Policy Group” (Group), composed of government and industry representatives, submitted a report to then Governor-elect Corzine, with recommendations to keep agriculture strong and viable in the Garden State. The Group reported a serious problem facing New Jersey farm employers. This was the State minimum wage, which was raised to \$6.15 per hour in October 2005, followed by a second increase to \$7.15, effective October 2006. Many farm employers struggle to cope with the multiple financial effects of these legislated mandates. The minimum wage is frequently used in agriculture as an “indicator wage,” the basis to peg other wage rates, year-end bonuses and a host of other non-wage benefits that are part of the employee’s remuneration. (*Report of the Agriculture Transition Policy Group*)¹³ With production costs in New Jersey higher than in most other areas, due in part to high labor costs, it is more costly and less profitable to produce farm commodity items in New Jersey than elsewhere. A comparison of neighboring states indicates New York with a minimum wage of \$7.15 per hour, and Pennsylvania with a minimum wage of \$6.25 per hour, putting Pennsylvania farmers at a labor price advantage over Warren County farmers.

Generally, the production of vegetables and fruits (produce) requires the highest amount of hired farm labor, mainly at harvest time, to pick and process the vegetables and fruits. With the exception of the Great Meadows area, Warren County has relatively little production of these products. Other products such as corn, dairy, beef cattle, and horticulture, which are more prevalent in Warren County, require little or no hired farm labor (most labor is done by farm families). As such, farm labor costs are not as large a problem for Warren County farmers as they are for farmers in other parts of the state that have major produce agriculture industries.

The Rutgers Cooperative Extension (RCE) of Warren County and the Rutgers University Agricultural Experiment Station are vital to the long term economic sustainability of agriculture in Warren County, and the State of New Jersey. Farmer education programs keep the Warren County agriculture industry apprised of the most recent farm research and techniques, which helps Warren County farmers to remain competitive. The Future Farmers of America (FFA) organization trains young people in agriculture practices, preparing them to be future Warren County farmers. Both the RCE and FFA are discussed in detail in *Chapter 8*.

Warren County Economic Development Programs

Warren County has a budding economic development program to assist the county's agricultural community to stay strong and vibrant. The following is a listing and brief discussion:

Livestock Cooperative Auction – This is a co-op run by the Auction Market Association of North Jersey, comprised mostly of farmers, and has been operating since 1941. Farmers, as well as restaurants and private individuals sell, buy, and trade livestock, eggs and crops. Most of the sheep, lambs, goats, hogs, and cattle are sold to slaughterhouses, which use the animals for use in food products. Dairy cows are bought and sold by farmers. Private individuals and restaurants buy mostly eggs. (*The Daily Record*)¹⁴

The Auction is located on Stiger Street in Hackettstown, and is open every Tuesday from 11 am to 8 pm throughout the year. It is one of only two remaining livestock auctions in the state, and is a staple of the Warren County agriculture industry. (*The Daily Record*)

Farmer's Market – The Washington Borough Weekly Farmers Market is held on Fridays from 3 to 7 p.m., between June and September, and is located on Route 57 in the United Methodist Church parking lot, just west of the Route 31 intersection. Now in its fourth year, the Farmer's Market offers for sale various fruits, vegetables, homemade sausage, grains and other products grown or made by local farmers. For the second consecutive year there will also be cooking contests the last Friday in July, August and September. This year the NJDA's Jersey Fresh program awarded the Washington Borough Business Improvement District a grant to help promote the market. (*Washington Borough Business Improvement District*)¹⁵ The grant should be utilized to actively promote to area residents the availability of fresh, locally grown and produced farm products for purchase. Further information about the Farmers' Market can be found at www.washingtonBID.org.

Farmer's Markets such as that in Washington Borough could also be established in towns such as Belvidere, Phillipsburg, Hackettstown, and Blairstown. Such an expansion of Farmer's Markets would further actively promote the availability of fresh, locally grown and produced farm products to area residents, all of which is beneficial to the economic sustainability of Warren County Farmers.

The Warren County Agriculture Development Board can investigate the possibility of establishing a permanent, three season farmer's market, which would greatly assist local farmers in selling farm and value-added products, thus strengthening the business of agriculture within the county.

Community Supported Agriculture – Economic support of the Warren County agricultural community also comes from local grass roots groups. This support is embodied in Community Supported Agriculture which consists of:

- A community of individuals who pledge support to a farm operation so that the farmland becomes the community's farm. In such an arrangement, the growers and consumers provide mutual support, and share the risks and benefits of agriculture.
- Members or "share-holders" of the farm pledge in advance to cover the anticipated costs of the farm operation and farmer's salary
- Members receive shares in the farm's products throughout the growing season
- Members also receive the satisfaction gained from reconnecting to the land and participating directly in food production
- Members also share in the risks of farming, including poor harvests due to unfavorable weather or pests
- Generally, growers receive better prices for their crops, gain some financial security, and are relieved of much of the burden of marketing
(*National Agricultural Library*)¹⁶

A local, grass roots group supporting community agriculture is The Food Shed Alliance (FSA). The FSA is a non-profit group devoted to “promoting profitable, sustainable farming and locally-grown, fresh, healthy food in northwestern New Jersey”. The FSA closely links the health of land and communities with the existence of local farms, believing that farmers are the key in connecting people with “food, the land, and our sense of place”. These tenets foster a “self-sustaining “food shed” that supports farmers, nourishes people, respects the land, and strengthens (our) communities.” (*Food Shed Alliance*)¹⁷

An extension of the FSA's work is the Northwest Jersey “Buy Fresh, Buy Local” Campaign. This is an effort by the Food Shed Alliance, local farmers, and community leaders to build connections between farmers and consumers through food guides, food and farming events, and community outreach, and therefore encourage local residents to buy fresh, local produce. As part of the “Buy Fresh, Buy Local” campaign, the FSA sponsored the 2nd annual “Farm and Food Open House” on Saturday, September 8, 2007. This event featured farm tours, tastings at local farms, and special family oriented events at the farms. Participating Warren County farms included the Community Supported Garden at Genesis Farm, Race Farm, Howling Wolf Farm, Donaldson's Farm and Best's Fruit Farm. (*Buy Fresh, Buy Local*)¹⁸

Additional Resources

There are numerous other resources which can be used by the Warren County Agriculture industry to assist it in expanding and solidifying its economic base in the county, and region wide. Several are listed below.

To help solidify Agritourism and the agriculture business in the county, the New Jersey Department of Agriculture lists on its website over 30 Warren County roadside markets and pick-your-own farms. The lists indicate farm or market name, contact information, location, and products available. (*Roadside Markets*)¹⁹ The Warren County agriculture community can work with NJDA to keep the lists updated and current. The *Appendix* contain these tables, as well as tables with cut your own Christmas tree operations, (*New Jersey Christmas tree Growers Association*)²⁰ and equine operations. (*New Jersey Equine Advisory Board*)²¹

The New Jersey Department of Agriculture lists various informational Agriculture Economic Development Services at its website, and Warren County Farmers should use these resources as appropriate. These include:

- Agriculture credit and finance;
 - Business development for agriculture, food manufacturing and related industries;
 - Farm building construction;
 - Farmland assessment;
 - Motor vehicle regulations for agriculture;
 - Real property appraisal manual, farm building section;
 - Recycling for agriculture;
 - Risk management and crop insurance;
 - Sales and use tax on farmer's purchases; and,
 - Trespass, vandalism, and liability on farms.
- (*Agricultural Development Services*)²²

Sustainable Agriculture Research and Education (SARE) is a “United States Department of Agriculture competitive grants program with regional programs and regional leadership. SARE supports research and education that helps build the future economic viability of agriculture in the United States. SARE funding is authorized under Subtitle B of Title XVI of the Food, Agriculture, Conservation and Trade Act (FACTA) of 1990.” (*SARE*)²³ SARE funds are used for:

- *Farmer/Grower Grants*: These grants have the goal of helping farmers shift to practices that are environmentally sound, profitable, and beneficial to the wider farm community.
- *Partnership Grants*: These grants are for RCE and NRCS personnel, non-profits, and agricultural consultants who work directly with farmers. Grants are used for on-farm research and demonstration projects that address sustainability.
- *Professional Development Grants*: These grants fund professional development projects that help RCE educators and other agricultural professionals learn and transmit the knowledge needed to help farmers move toward greater sustainability.

- *Research and Education Grants*: These grants fund research and education projects that lead to farmers adopting sustainable practices. The emphasis is on improved farming practices and an enhanced quality of life for farmers.
(SARE)

SARE has the following outcome statement: “Agriculture in the Northeast will be diversified and profitable, providing healthful products to its customers; it will be conducted by farmers who manage resources wisely, who are satisfied with their lifestyles, and have a positive influence on their communities and the environment.” (*Northeast Sustainable Agriculture Research and Education*)²⁴ As defined in FACTA of 1990, sustainable agriculture is an integrated system of plant and animal production practices having a site-specific application that will, over the long term:

- Satisfy human food and fiber needs;
- Enhance environmental quality and the natural resource base upon which the agricultural economy depends;
- Make the most efficient use of nonrenewable resources and on-farm resources and integrate, where appropriate, natural biological cycles and controls;
- Sustain the economic viability of farm operations; and,
- Enhance the quality of life for farmers and society as a whole.
(*Northeast Sustainable Agriculture Research and Education*)

The Agricultural Marketing Resource Center (AgMRC) brings together agriculture experts from Iowa State University, Kansas State University and the University of California “ ... to create and present information about value-added agriculture. The center draws on the abilities, skills and knowledge of leading economists, business strategists and outreach specialists to provide reliability in value-added agriculture”. AgMRC provides information to help farmers “assess value-added market opportunities, investigate processing options and understand business and production issues” for such agricultural commodities and products as Agritourism, renewable energy, livestock, specialty crops, and numerous others. In general, the goals of AgMRC are to:

- “Create an electronic, Web-based library with powerful search capabilities to make value-added market, economic and business information and other resources available to producers”. The library can be accessed at <http://www.agmrc.org>.
- “Provide value-added business and economic analysis tools, including information on business principles, legal, financial and logistical issues”.
- “Conduct research and analysis on economic issues facing producers involved in value-added business ventures”.
- “Link producers with electronically available information and resources”.
(*Agricultural Marketing Resource Center*)²⁵

The AgMRC website offers numerous business development information links, as well as links to other government and non-government sources for business development. This website can be used by the Warren County Agriculture community as a resource when necessary and appropriate.

Warren County supports the effort to establish an ethanol plant in Warren County. East Cost Energy Solutions has proposed the \$120 million facility at one of three sites, including one location in Warren County. The plant would generate 40 full-time jobs and produce 40 million gallons of the alternative fuel each year.²⁶ Warren County will also continue to work with local agencies and organizations to enhance the County's agritourism program.

¹ New Jersey Department of Agriculture. Agricultural Smart Growth Tool Kit “Planning for Agriculture”. <http://www.state.nj.us/agriculture/toolkit.htm>. Accessed June 2006.

² New Jersey Department of Agriculture, Agricultural Smart Growth Plan 2006. <http://www.state.nj.us/agriculture/pdf/smartgrowthplan.pdf>. Accessed March 27, 2007.

³ New Jersey Department of Agriculture, 2007 Economic Development Strategies.

⁴ New Jersey Department of Agriculture, State Agriculture Development Committee, Agriculture Census Data, Warren County Agricultural Profile. April 13, 2007.

⁵ New Jersey Farmland Assessment 2004, Tax Year 2005 – County Summary, County=Warren.

⁶ Four Sisters Winery at Matarazzo Farms. <http://foursisterswinery.com/>. Accessed July 8, 2007.

⁷ Alba Vineyard, <http://www.albavineyard.com/>. Accessed September, 16, 2007

⁸ Warren County Farmer’s Fair. <http://www.warrencountyfarmersfair.org/>. Accessed July 8, 2007.

⁹ New Jersey Farm Bureau, <http://www.njfb.org/>. Accessed September 16, 2007.

¹⁰ Personal Communication with Peter Furey, New Jersey Farm Bureau. June 18, 2007.

¹¹ Personal communication with Steve Komar, Rutgers Cooperative Extension of Sussex County. May 30, 2007.

¹² Personal communication with Kent Hardmeyer, United States Department of Agriculture, Natural Resources Conservation Services. May 15, 2007.

¹³ Report of the Agriculture Transition Policy Group, Final Report, January 10, 2006. <http://www.state.nj.us/governor/home/pdf/agriculture.pdf>. Accessed March 11, 2007.

¹⁴ The Daily Record, Hackettstown: A Day in the Life - April 16, 2002. <http://www.dailyrecord.com/news/dayinthelife/hackettstown/bidders.htm>. Accessed July 8, 2007.

¹⁵ Washington Borough Business Improvement District. <http://www.washingtonbid.org/>. Accessed July 8, 2007.

¹⁶ United States Department of Agriculture, National Agricultural Library, Alternative Farming Systems Information Center, Community Supported Agriculture. <http://www.nal.usda.gov/afsic/pubs/csa/csa.shtml>. Accessed June 30, 2007.

¹⁷ Food Shed Alliance. <http://www.foodshedalliance.org/Foodshed%20WebPages/Foodshed%20Pages/whatweareabout.htm>. Accessed June 30, 2007.

¹⁸ Buy Fresh, Buy Local. <http://www.buyfreshnj.org/WebPages/OurCampaign.htm>. Accessed June 30, 2007.

¹⁹ New Jersey Department of Agriculture, Roadside Markets, Pick Your Own Farms and Community Farmers Markets, <http://www.state.nj.us/jerseyfresh/searches/index.html>. Accessed May 28, 2007.

²⁰ New Jersey Christmas Tree Growers Association, 2006 Choose & Cut Christmas Tree Guide, <http://www.njchristmastrees.org/>. Accessed May 28, 2007.

²¹ New Jersey Department of Agriculture, New Jersey Equine Advisory Board; 2006 Directory of Equine Facilities.

²² New Jersey Department of Agriculture, Agricultural Development Services. <http://www.state.nj.us/agriculture/divisions/md/prog/agriculturaleconomic.html#top>. Accessed July 8, 2007.

²³ New Jersey Department of Agriculture, Sustainable Agriculture Research and Education (SARE). <http://www.state.nj.us/agriculture/grants/sare.html>. Accessed May 20, 2007.

²⁴ Northeast Sustainable Agriculture Research and Education. http://www.uvm.edu/~nesare/what_is.html. Accessed July 8, 2007.

²⁵ Agricultural Marketing Resource Center, Mission and Goals. <http://www.agmrc.org/agmrc/About+mission++goals.htm>. Accessed May 20, 2007.

²⁶ Star Ledger. Ethanol Plant proposed in Warren County. December 11, 2007.

CHAPTER 7: NATURAL RESOURCE CONSERVATION



Preservation of farmland is the cornerstone of the New Jersey Department of Agriculture's (NJDA) *Agricultural Smart Growth Plan* and the Farmland Preservation Program. However, there is more to farmland preservation than retirement of development rights or outright purchase of farms. One of the cornerstones to a successful, long term Farmland Preservation Program is the conservation of natural resources on farms, without which the long term sustainability and viability of New Jersey's preserved farmland would be in doubt.

Natural Resource Protection Agencies

There are numerous entities, both public and private, which administer, fund, and provide technical guidance for Warren County farmers relative to natural resource conservation. These entities are in place to assist farmers with natural resource conservation issues, and should be called upon by farmers for appropriate assistance.

Natural Resource Conservation Service

An important partner in support of natural resource conservation for the agricultural community is the United States Department of Agriculture (USDA)'s Natural Resources Conservation Service (NRCS). The NRCS "*provides assistance to private land owners (including farmers) in the conservation and management of their soil, water, and other natural resources. Local, state, and federal agencies and policymakers also rely on (its) expertise*". The NRCS provides technical assistance suited to the natural resource issues that are specific to a farmer's needs, with ample opportunity for cost shares and financial incentives. (*Information For Farmers*)¹

The local NRCS office serving Sussex, Warren, and Morris Counties is located at 101 Bilby Road, Suite 1H in Hackettstown. Warren County farmers may utilize this local NRCS office for assistance. NRCS will also reach out directly to landowners if they know of a farmer who is in need of technical assistance, or can use the guidance of the NRCS staff. The local NRCS office also helps to prepare Conservation Plans for Warren County Farmers. These Conservation Plans nearly always include strategies to conserve soil and water, but may also include conservation practices for flora, fauna and clean air. If all five elements are included, they are referred to as Resource Management Plans. (*Kent Hardmeyer and/or Ron Phelps*)²

Within one year of selling their development easement, owners of preserved farms are required to enter into a Conservation Plan. The Plans are also required to apply for natural resource conservation program grants such as the Wildlife Habitat Incentive Program (WHIP) and Environmental Quality Incentive Program (EQIP). The local NRCS office administers these conservation program grants, which offer financial incentives to support conservation projects, including stream riparian buffers and wildlife habitat. Administration of these grant programs includes field visits to prepare the Conservation Plans, preparation of grant program contracts, assistance with installation of contract conservation practices, and inspection of farms to verify that contract conservation practices are implemented and maintained. It should be noted that the Warren County Soil Conservation District gives final approval on all Conservation Plans and program contracts (*Kent Hardmeyer and/or Ron Phelps*), and the USDA, Farm Service Agency (FSA) assists NRCS in administration of an additional natural resource conservation program entitled Conservation Reserve Enhancement Program (CREP). (*Ken Bingham*)³

Discussions with the local NRCS office indicate the following strategies would strengthen natural resource conservation efforts for Warren County farms:

- The federal government needs to replenish funding for natural resource conservation grant programs via the proposed 2007 Farm Bill. Currently, all funds are depleted.
- As previously stated, owners of preserved farms are required to enter into a Conservation Plan within one year of selling their development easement. However, implementation of this requirement is inconsistent. Providing a mechanism and staff to ensure that Conservation Plans are prepared and implemented will guarantee that the objectives of the program are put in place, and active stewardship practices are underway.
- Owners of preserved farms have an obligation to conserve natural resources on their farms. Implementation of a Conservation Plan is a good first step towards fulfilling this obligation.

(*Kent Hardmeyer and/or Ron Phelps*)

The phone number for the local NRCS office is (908) 852-2576, and the District Conservationist is Ronald Phelps. He can also be reached at ron.phelps@nj.usda.gov. (*New Jersey*)⁴ Mr. Phelps and his staff (listed below) can be contacted by Warren County Farmers for assistance, and more information on the availability of NRCS programs in the county.

- Kent Hardmeyer - Resource Conservationist, Highlands Planning Specialist
- Madeline Dean - Program Assistant
- Jim Kleindienst - Civil Engineering Technician
- Jill Koehler - Natural Resource Specialist, Grazing Lands
- Jim Wick - Resource Conservationist

An additional resource for Warren County farmers is the “Field Office Technical Guide” (Guide), which is published by NRCS. It contains technical information about the development and implementation of soil, water, air, flora, and fauna resource conservation practices, and is used to develop Conservation Plans. Each state has its own Guide, which lists and discusses conservation practices particular to a state. These conservation practices improve water and soil quality, improve plant condition, and in some instances can improve air quality. Conservation practices discussed in the Guide that are pertinent for Warren County include:

- Riparian Buffers, including necessary buffer widths and plant species;
- No till and minimum till practices;
- Prescribed grazing and pasture rotation;
- Nutrient management, including manure and fertilizers; and,
- Animal waste disposal.

(Kent Hardmeyer and/or Ron Phelps)

Warren County Soil Conservation District

Another partner in the conservation of agricultural resources is the New Jersey Department of Agriculture, Division of Agricultural and Natural Resources. Among its responsibilities, the Division implements the natural resource conservation programs, administered by the State Soil Conservation Committee (SSCC). These programs “*provide engineering services and regulatory guidance to soil conservation districts, homeowners, engineers, planners, and virtually all development activities. The Division provides technical standards applicable to construction and mining sites regulated by the Soil Erosion and Sediment Control Act program ...*” (Agricultural and Natural Resources)⁵

The SSCC coordinates and supports the work of the state’s 15 local soil conservation districts (SCD), one of which is the Warren County SCD. The Warren County SCD is charged with reviewing and approving natural resource conservation and assistance program grants, implementing agricultural conservation planning assistance, agricultural conservation cost-sharing program grants, application of organic materials on agricultural land, agricultural water supply and management, soil erosion and sediment control, storm water discharge authorization, and soil surveys. (Agricultural and Natural Resources)

The Warren County SCD office is located at 224 West Stiger Street in Hackettstown. Warren County Farmers may approach this local SCD office with a Request for Assistance (RFA), to apply for funds from natural resource conservation grant programs such as WHIP and EQIP. If approved, the RFA is forwarded to the local NRCS office in Hackettstown for processing. The administration of the RFA includes preparation of a Conservation Plan and grant program contract, as previously described. The Warren County SCD is involved in review of conservation plans and grant program contracts, and must give final approval to both. (Kent Hardmeyer and/or Ron Phelps)

The phone number for the Warren County SCD office is (908) 852-2579, and the District Manager is Dave Schaaf. He can also be reached at dsscd@verizon.net. Mr. Schaaf and his staff (listed below) can be contacted by Warren County farmers for assistance. (*New Jersey*)

Mary Baldwin - Erosion and Sediment Control Program Coordinator
Mike Fee - District Forester
Cathie LaBar - Inspector
Helene Timbrooke - Administrative Assistant

Rutgers Cooperative Extension of Warren County

The Rutgers Cooperative Extension (RCE) of Warren County provides both field and technical research which is focused on best management practices for farmers, to ensure the long term viability of both the agricultural economy and the natural resources upon which it is based.

Relative to natural resource conservation, the RCE of Warren County offers the Agriculture and Natural Resource Management program. This education program provides “*non-biased, research-based educational programs and services for both homeowners and commercial producers. Services offered by extension personnel include soil testing, insect identification, plant disease diagnosis, and pest management recommendations for agricultural operations*”, as well as “*educational publications covering a wide range of agricultural topics*”. Staff members offer programs that are, among other things, designed to “*reduce environmental impact.*” (*Agricultural Experiment Station*)⁶ An example of this service is helping to prepare animal waste management plans, so as to reduce impacts to watersheds.

The RCE of Warren County is located in the Warren County Administration Building, Suite 102, 165 County Route 519 South in White Township (mailing address of Belvidere). Extension agents include Bill Tietjen, specializing in plant pathology for ornamentals, Christmas trees, fruits, vegetables, and greenhouse nurseries. Extension agent Everett Chamberlain specializes in field crops and livestock. (*Bill Tietjen*)⁷ They may be contacted with any questions or concerns, or for information on education programs or services. Mr. Tietjen can be contacted via e-mail at tietjen@njaes.rutgers.edu and Mr. Chamberlain at chamberlain@rce.rutgers.edu. Both can be contacted via phone at 908-475-6503.

The SSCC, NRCS, Warren County SCD, and RCE of Warren County, are part of the New Jersey Conservation Partnership. This partnership of agencies strives to further soil and natural resource conservation efforts. (*Agricultural and Natural Resources*)

New Jersey Department of Environmental Protection

The New Jersey Department of Environmental Protection's (NJDEP), Division of Parks and Forestry, oversees the "Private Lands Management Program". The aim of this program is to foster wise stewardship and management of the state's 270,000 acres of private woodlands currently under Farmland Assessment. (*Division of Parks and Forestry*)⁸ Many properties in Warren County that are farmland assessed include extensive woodland tracts. Such tracts were added as "farm products" in the 1970's. These woodland tracts, which must be utilized by the farmer as a sustainable "product", require Woodland Management Plans (WMPs) to receive reduced local property taxes accorded properties in the farmland tax assessment program. (*Jim Barresi*)⁹

The NJDEP's Division of Parks and Forestry, Bureau of Forest Management (BFM), reviews applications for WMPs, which are prepared for farmers by private consultants. Once a WMP is in place, a "Woodland Data Form" must be submitted yearly to certify that the WMP is being complied with. However, the NJDEP, BFM, also inspects each site once every three years to verify compliance with WMP conditions. (*Jim Barresi*) Since reduced local property taxes are often critical in keeping active agricultural lands economically viable, the NJDEP is an important partner for Warren County's farmland preservation efforts.

Non-appurtenant woodlands are woodland acreage on a farm over and above total farmed acreage (tilled and pasture). So, for example, if 50 acres of a farm are tilled or pastured, and there are 125 acres of woodlands on the farm, 75 acres of woodlands would be non-appurtenant (125 woodland acres minus 50 farmed acres). Non-appurtenant woodlands require a WMP. In Warren County in 2006 there were 27,195 acres of non-appurtenant (or unattached) woodland acres in farmland assessment (*N.J. Department of Treasury*)¹⁰, down from 2004 when there were 28,429 acres. Both these figures are down from the peak of 28,757 acres in 2002. In 1990 there were 19,961 non-appurtenant acres in farmland assessment. (*Warren County Agricultural Profile*)¹¹ Appurtenant woodlands are woodland acreage on a farm, less than or equal to, farmed acreage. So, in the preceding example, 50 of the 125 woodland acres would be appurtenant. Appurtenant woodland acres do not require a WMP. (*Jim Barresi*) In Warren County in 2006 there were 15,290 acres of appurtenant woodland acres in farmland assessment, (*N.J. Department of Treasury*) up slightly from 2004 when there were 15,012 acres, such total having decreased from 19,229 acres in 1990. (*Warren County Agricultural Profile*)

The New Jersey Department of Environmental Protection's Nongame and Endangered Species Program also administers the Landowner Incentive Program (LIP). LIP works to improve habitat, habitat management, and habitat protection for threatened and endangered species on private lands, some of which are agricultural lands. Project durations must be for a minimum of five years, and the property owner contributes a minimum 25 % cost share. Some grain farmers have expressed concern over the use of LIP. This is because it not only provides habitat for threatened and endangered species, but also for such nuisance wildlife as deer and turkey, which are known to cause severe loss to farm products including corn.

In Warren County there are a total of 1010 acres enrolled in LIP on 16 farms. Of this, 620 acres are planted in warm season grasses, while on the remaining 390 acres delayed mowing is utilized to satisfy LIP habitat requirements. LIP has been in existence for three years, and funding for the program is competitive due to available funds not being equal to funding requests.

*(Kim Korth)*¹²

USDA, Forest Service's Forest Stewardship Program

The United States Forest Service sponsors the Forest Stewardship Program. This program supports landowners whose property has a woodland management plan that recognizes and manages the wetlands, wildlife, aesthetics, soil, and water in addition to the woodlands on the property. This program, when fully funded, offers landowners cost-share initiatives to allow the landowners to fully follow the guidelines in their woodland management plan. In New Jersey, the state farmland tax program and the U.S. Forest Service program have merged to allow one planning document for the landowner where the stewardship plan meets the state tax code and eliminates conflicts between the two. Increasing enrollment of landowners in this merged state-federal program will ensure increased protection of the natural resources for an extended period. The minimum is a ten-year management plan. This does not ensure preservation of the land in perpetuity, but it does allow recognition of the importance of the land value and stewardship of the property for a longer period of time.

In Warren County, as of 2007 there are 4,275 acres of farmland on 73 different properties enrolled in the Forest Stewardship program. This has steadily increased since 2003, when there were 3,198 acres on 59 properties. *(Jim Haase)*¹³

North Jersey Resource Conservation and Development Council

The North Jersey Resource Conservation and Development (RC&D) Council's main mission is to "facilitate the wise use and protection of the region's human and natural resources (which includes farmland). This is accomplished by working with communities and regional partnerships to address issues related to water quality and water resource protection, sustainable farming and farm communities, building local community capacity, and managing natural hazards that impact community planning". Each RC&D area usually consists of several counties, and has a council composed of local citizens who serve on a voluntary basis, as well as government representatives. *(North Jersey RC&D Council)*¹⁴

Under the leadership of NRCS, the North Jersey RC&D Council receives technical assistance and may be able to qualify for financial assistance of up to 25% of needed funds, or a maximum of \$50,000, from the U.S. Department of Agriculture. *(North Jersey RC&D Council)*

The North Jersey RC&D Council includes the counties of Hunterdon, Morris, Somerset, Sussex, Union and Warren. The office is located at 54 Old Highway 22, Suite 201, in Clinton, Hunterdon County, and the phone number is (908) 735-0733. Warren County

government representatives include David K. Dech, Director, Warren County Planning Department, and David Schaaf, District Manager of the Warren County SCD. (*North Jersey RC&D Council*) Warren County farmers can contact the North Jersey RC&D Council for assistance with issues related to natural resource conservation and sustainable farming.

Private non-profit groups and private citizens

Agriculture needs not only the broad support of state, county, and local governments to help preserve agriculture resources, but also the help of private non-profit groups and citizens. Indeed, without their support, government programs and support for agriculture would fall short of what is needed to protect the natural resource base of the agricultural landscape. These groups and citizens spend countless hours providing and sharing their expertise, as well as raising and contributing money. They are invaluable in assisting with all phases of farmland preservation for Warren County, including natural resource conservation and stewardship.

The Warren County agriculture community has the support of a variety of organizations, including the Warren County Board of Agriculture, New Jersey Farm Bureau, 4-H, Future Farmers of America, and the Warren County Farmers Fair.

Local and regional non-profit organizations also contribute to the permanent protection of farmland. These groups include the Morris Land Conservancy, the Nature Conservancy, New Jersey Audubon Society, New Jersey Conservation Foundation, Ridge and Valley Conservancy, and the Musconetcong Watershed Association.

The Warren County agriculture community, via the County Agriculture Development Board (CADB) and County Freeholders, can work with non-profit organizations and private citizens in a coordinated fashion to further the farmland preservation program in Warren County. Warren County has partnered with the Ridge and Valley Conservancy on several farmland preservation projects, and is working with Morris Land Conservancy on the completion of several additional farmland projects.

Resource Protection Programs and Funding

2002 and 2007 Farm Bills

The Farm Security and Rural Investment Act of 2002 (2002 Farm Bill) is landmark legislation, with much of its focus on conservation funding and environmental issues. Conservation provisions are designed to assist farmers in being good stewards of the land through grants and technical assistance. Voluntary programs relevant to New Jersey, and Warren County, include the Conservation Reserve Enhancement Program (CREP), Conservation Innovation Grant Program (CIG), Environmental Quality Incentives Program (EQIP), Farm and Ranch Land Protection Program (FRPP), Grassland Reserve Program (GRP), Wetlands Reserve Program (WRP), and Wildlife Habitat Incentives Program

(WHIP). (*Conservation Programs*)¹⁵ These programs, administered by the local NRCS office in Hackettstown and the Warren County Soil Conservation District, are discussed in this section.

The proposed 2007 Farm, Nutrition, and Community Investment Act (Farm Bill) would authorize approximately \$7.8 billion nationally to protect natural resources through conservation programs similar to those mentioned above. However, as proposed, the Bill may consolidate most or all of these programs into one program, tentatively titled The Environmental Quality Incentives Program. In addition, the acreage limit on the Wetlands Reserve Program would be increase nationally from 2.3 to 3.5 million acres. (*Fact Sheet*)¹⁶

The Mid-Atlantic region, of which New Jersey is part, is generally underserved by federal farm programs, including the 2002 Farm Bill. The Northeast/Mid-Atlantic region receives on average less than two cents in commodity payments for every dollar in farm sales, in stark contrast to over fifteen cents in some Midwest and Western states. With smaller than average farms, lower profit margins, varied crops, and development pressure, New Jersey has unique farm and food policy needs, which do not match other, larger agricultural states who receive the bulk of commodity payments. (*American Farmland Trust*)¹⁷ However, the commodity payment system may change in the proposed 2007 Farm Bill from price supports to revenue support, with a revenue insurance system if projected revenues for farm(s) are not met. Revenue support with an insurance system may well have a positive effect for Warren County Farmers, since it would help specialty crops and niche markets receive their fair share of commodity payments. (*Jim Baird*)¹⁸

The 2002 Farm Bill expired on September 30, 2007, but was extended via Congressional resolution, and the President's signature. The 2007 Farm Bill was passed by the House of Representatives in early August, 2007. The Senate version of the Farm Bill was passed by the Senate Agriculture Committee on October 25, 2007, with the full Senate expected to vote on the bill in early to mid-November, 2007. Assuming passage by the Full Senate, the 2007 Farm Bill would then be referred to a House-Senate Conference Committee to rectify any discrepancies between the two Bills. If the Committee cannot rectify the two Bills, or if the Bill is vetoed by the President, it is likely that a two year extension of the 2002 Farm Bill would be enacted into law. (*Jennifer Morrill*)¹⁹ However, if the 2007 Farm Bill is signed into law, the resulting farm and food policy promises to strengthen New Jersey's agriculture and ensure fresh, healthy food supplies while serving to better protect the environment. Some highlights of 2007 Farm Bill, as it relates to natural resource conservation, include:

- Expanding working lands conservation programs and an improved farmland protection program;
- Increasing focus on energy efficiency and on-farm renewable energy production; and,
- Increasing access for the region's producers by providing a minimum base allocation of conservation funding for every state.

(*American Farmland Trust*)

The following is a synopsis of the natural resource conservation programs funded by the 2002 Farm Bill. They are implemented by NRCS and the Warren County SCD, and also to a minor degree the Farm Service Agency, which is also part of USDA. These programs are the backbone of natural resource conservation efforts in Warren County.

Conservation Reserve Enhancement Program (CREP) and Conservation Reserve Program (CRP)

Through CREP and CRP, agricultural producers voluntarily retire land to protect environmentally sensitive areas, decrease soil erosion, provide and restore wildlife habitat, and protect ground and surface water. (*NRCS Conservation Programs*)²⁰ Examples of conservation practices include riparian buffers and filter strips for water quality, and contour buffer strips to reduce soil erosion. With incentive payments for farmers to fully implement a CREP contract, payment for this program may be fully funded by NRCS and NJDA. (*Ken Bingham*) Statewide, CREP was most recently funded with \$100 million for the 2004 to 2007 timeframe, and has been used successfully in Warren County. It is used mostly along streams and rivers, to protect water resources. (*Kent Hardmeyer and/or Ron Phelps*)

It is important to note that though funded with \$100 million since 2004, it is reported that only \$12 million of this has been spent, and the remaining \$88 million will revert back to the federal government if not spent by the end of 2007 (such spending is unlikely). There may be numerous reasons for this sub-optimal use of CREP and CRP funding. However, one of the main reasons is due to requirements of other USDA farm land payment programs that require a minimum number of acres in active agricultural production to receive USDA payments. CREP and CRP acres do not count towards these “base acres”, and therefore farmers may be reluctant to enter in CREP or CRP since they may lose funding for the agriculture production programs. (*John Parke*)²¹

Conservation Innovation Grant program (CIG)

The aim of the CIG program is to stimulate the development and adoption of conservation approaches and technologies which are innovative, in conjunction with agricultural production. Funds are awarded as competitive 50-50 match grants to non-governmental organizations, tribes, or individuals. (*NRCS Conservation Programs*) CIG is a component of EQIP, and its grants are generally funded through EQIP (see below). (*Kent Hardmeyer and/or Ron Phelps*)

In neighboring Sussex County, the Green Township operation, AG Choice, LLC compost facility has a CIG grant. Ag Choice is the first NJDEP approved compost facility permitted to collect and receive agricultural waste, such as animal and stall waste, spoiled haylage, and silage, and then compost it for off-farm use. Ag Choice composts agricultural waste into high quality organic, humified compost, which can be safely reintroduced into the environment. (*AG Choice*)²² Warren county farmers may use AG Choice, LLC as a model for local CIG Grants.

Environmental Quality Incentive Program (EQIP)

EQIP is a conservation program in which farmers receive financial and technical assistance with structural and management conservation practices that address soil, water, and grazing land concerns. (*NRCS Conservation Programs*) EQIP is the most popular and widely used conservation program in Warren County, and is the most well funded of all the programs, receiving approximately \$4 million statewide on an annual basis. In Warren County, between 2005 and 2007 there are 4,494 contracted acres, with 38 active contracts. (*Janice Reid*)²³

Recently, emphasis in the county has been put on approving grants to replace old, polluting diesel engines, with cleaner burning diesel engines for farm equipment. (*Kent Hardmeyer and/or Ron Phelps*) Nationally, the proposed 2007 Farm Bill would raise authorized EQIP funding to \$1 Billion. (*Jim Baird*)

Farm and Ranch Land Protection Program (FRPP)

FRPP provides up to 50% matching funds to purchase development rights and conservation easements to keep farm and ranchland in agricultural use. The USDA partners with state, tribal, or local governments, and non-governmental organizations. (*NRCS Conservation Programs*) Farmers accepting funds through this program must adhere to strict impervious surface limitations. In New Jersey, this program receives approximately \$500 thousand to \$1 million annually, most of which goes to the State Agriculture Development Committee or private conservation groups. (*Kent Hardmeyer and/or Ron Phelps*) Nationally, the proposed 2007 Farm Bill would raise authorized FRPP funding to \$300 million. (*Jim Baird*)

Grassland Reserve Program (GRP)

GRP was a program which offered landowners the opportunity to protect, restore, and enhance grasslands on their property, which play a vital role in protecting water quality and providing wildlife habitat. This program was coordinated through several federal agencies (*NRCS Conservation Programs*), but has recently become inactive in Warren County. (*Kent Hardmeyer and/or Ron Phelps*) The proposed 2007 Farm Bill would provide only minimal funding for GRP. (*Jim Baird*)

Wetlands Reserve Program (WRP)

WRP offers farmers payments for restoring and protecting wetlands on their property that had been previously drained for agricultural use. Wetlands help reduce flooding, filter pollutants from water, provide critical wildlife habitat, and protect open space. (*NRCS Conservation Programs*) Payment by NRCS is based upon appraised agricultural land value. With appraised values from \$100 to \$2000 per acre, many farmers are not willing to create wetlands on otherwise productive agricultural lands. As a result, the WRP is not widely used in Warren County. (*Tim Dunne*)²⁴

Wildlife Habitat Incentives Program (WHIP)

WHIP provides technical and financial assistance for creating, enhancing and maintaining wildlife habitat. The State Technical Committee for WHIP in New Jersey awards project contracts for designated wildlife habitat categories such as for migratory and declining wildlife species, and for pollinators that benefit agriculture. Since its inception in 1998, WHIP has been a popular program for non-federal landowners interested in wildlife habitat management in New Jersey. This is second only to EQIP in use for Warren County, with 102 contracted acres and nine active contracts since 2005. (*Janice Reid*)

SADC Soil and Water Conservation Grants

The New Jersey Department of Agriculture, State Agriculture Development Committee (SADC) has in the past provided grants to farms that are permanently preserved, or are enrolled in the eight year preservation program, with priority for preserved farms. (*Dave Schaaf*)²⁵ Cost share grant funding for fiscal year 2008 has been approved. The purpose of the grants and program is to provide funding for soil and water conservation practices.

The types of soil and water conservation projects funded by SADC include soil erosion and sediment control systems (terrace systems), control of farmland pollution (stream protection; sediment retention, erosion or water control systems; animal waste control facilities; and agri-chemical handling facilities), the impoundment, storage and management of water for agricultural purposes (diversions; water impoundment reservoirs; irrigation systems; and, drainage systems), and management of land to achieve maximum agricultural productivity (land shaping or grading). (*Soil and Water Conservation Grants*)²⁶

These grants fund soil and water conservation projects approved by the Warren County Soil Conservation District (District), with the program administered by both the District and the local NRCS office in Hackettstown. Both the District and the local NRCS office also provide technical assistance for eight year program projects. Once the District deems the conservation project necessary and feasible, applications are forwarded to the N.J. State Soil Conservation Committee, which recommends projects to the SADC for funding approvals. (*Soil and Water Conservation Grants*) Traditionally 50% of the costs of approved soil and water conservation projects are paid with grant funds, but up to 75% has also been approved in the past. (*Dave Schaaf*)

Warren County uses their annual monitoring visits as an opportunity to encourage landowner participation in natural resource conservation programs.

Water Resources

The Importance of the Water Resource

The protection of the water resource as it relates to agriculture and farmland preservation in Warren County cannot be overstated. Quite simply, without a consistent, plentiful,

adequate and clean water source, agriculture cannot exist. In addition, farms are critical as open space areas to provide aquifer water recharge. To a certain extent, some aspects of ensuring clean and plentiful water can be controlled at the individual farm level. These include:

- Minimizing the use of synthetic chemicals such as fertilizers, herbicides, pesticides, and fungicides so as to lessen impacts to groundwater;
- Providing riparian buffers along watercourses, so as to protect streams from the aforementioned synthetic chemicals;
- When possible, practicing organic farming methods;
- Practicing appropriate timing of chemical application, so as to minimize its use; and,
- Practicing water conservation techniques, such as drip irrigation and water reuse for certain types of farming where feasible, such as smaller scale vegetable and fruit operations. Some of these agricultural type operations are found in the Great Meadows area of Independence Township.

In any case, the necessity of clean and plentiful water, and its precariousness, is clearly stated in the *2005 Warren County Strategic Growth Plan*. The Plan indicates that “Groundwater and surface water quality in Warren County is generally good. Groundwater accounts for all drinking water in the county. While groundwater quality is good, there are some areas identified for actual or potential well contamination.” (*Warren County Planning Department*)²⁷ Some potential contamination sources are pesticides, which are used in agriculture and at private residences, and underground storage tanks for various substances such as gasoline and diesel fuel. Underground storage tanks are sometimes used on farms as fuel sources for equipment. (*Warren County Planning Department*)

In addition, the *1999 Warren County Open Space Plan* indicates the importance of agriculture to the water resource by stating, “Sixty percent of Warren County is deep, non-stony soil, well suited for farming and community development etc. These areas also provide scenic vistas and watershed protection. Agricultural landowners should be encouraged to participate in the Farmland Preservation Program, to help ensure the viability of agriculture as a land use and economic activity while preserving them as open or undeveloped land areas.” (*Warren County Open Space Plan*)²⁸

The *State Development and Redevelopment Plan* also discusses the importance of the water resource. The Plan indicates that Warren County’s farmland is found in areas mapped as Rural Planning Area, Rural Environmentally Sensitive Planning Area or Environmentally Sensitive Planning Area. The Plan’s goals include support for maintenance and improvement of the agricultural industry’s economic viability. The goal of the Rural Planning Area for agriculture is to “guide development to ensure the viability of agriculture and the retention of farmland in agricultural areas; encourage farmland retention and minimize conflicts between agricultural practices and the location of Centers; ensure the availability of adequate water resources and large, contiguous tracts of land with minimal land-use conflicts ...” (*New Jersey State Development and Redevelopment Plan*)²⁹

Agricultural goals in Rural Environmentally Sensitive Planning Areas and Environmentally Sensitive Planning Areas include, "... guiding development away from agriculture, minimizing conflict between agriculture and Centers, ensuring adequate water supply, protecting large tracts of land, and promoting more intensive, new-crop agriculture." (*New Jersey State Development and Redevelopment Plan*)

Finally, emphasis is also given to the importance of the water resource, via the New Jersey Department of Agriculture which "... is working with Rutgers Cooperative Extension, the Natural Resources Conservation Services, the United States Geological Survey, the New Jersey Department of Environmental Protection and the farm community to assess the water needs of agriculture and to assist in the development of essential rules, policies and guidelines to ensure an adequate water supply to meet the current and future needs of the agricultural industry." (2006 Agricultural Smart Growth Plan)³⁰

Physical Features and Water Aquifer Supply Characteristics

Warren County is located within two Physiographic Provinces of New Jersey. These are the New Jersey Highlands Physiographic Province, and Valley and Ridge Physiographic Province. As discussed on the Warren County Environmental Commission's website:

"The New Jersey Highlands is part of the southern extension of the New England Uplands Physiographic Province. Its topography is characterized by a series of nearly parallel ridges, trending northeast-southwest, that are separated by broad-to-narrow valleys in which Lower and Middle Paleozoic rocks overlie the Precambrian rocks that characterize the province. The mountains on Warren County's eastern border belong to the Highlands."

"The New Jersey Highlands is underlain by granitic and metamorphic rocks, known collectively as crystalline rocks. Geologic structures and weathering affect the occurrence of ground water in these Proterozoic rocks. The primary porosity, or intergranular space, of the crystalline bedrock is limited, due to their tight, interlocking texture. Therefore, the hydrogeologic (water-bearing) characteristics of these rocks are controlled by their secondary porosity, that is, openings created by weathering and fracturing."

"Weathered crystalline bedrock of the Highlands is referred to as saprolite. Saprolite that developed on crystalline rocks of low quartz content generally forms a low-permeability clay and silty clay, whereas saprolite that developed on rock with abundant quartz consists of more permeable sands and silty sands. Weathering of fractures in marble bedrock often creates cavities or solution channels that transmit water freely. Saprolite thicknesses of up to 50 feet are typically found in non-glaciated regions, south of the Wisconsin terminal moraine."

"Joints and fractures also strongly affect the movement of ground water in the Middle Proterozoic bedrock aquifers by acting as conduits for flow. Studies of the

hydrology of fracture systems have shown that most ground water moves through a few fractures. The number of fractures, their spacing, and the amount of mineral matter within them are important in assessing the hydrogeologic characteristics of crystalline bedrock aquifers.”

“Studies of crystalline rock elsewhere have shown that fracture permeability, width, and abundance diminish with depth below land surface. In the New Jersey Highlands, these studies are partly supported by data on well yields.”

“The occurrence of joints and fractures is influenced by faults and folds. Most faults in the northern and central Highlands trend northeast and dip southeast at moderate-to-high angles. Smaller northwest-southeast and east-west cross faults are also common. In the southwestern Highlands, thrust faults that dip gently to steeply southeast are fairly common. Fracture density increases near fault zones and in the axes of folds. Fractures and joints sometimes are filled with secondary minerals, which can reduce their permeability.”

“The Valley and Ridge Province occupies the extreme northwestern part of New Jersey and makes up the majority of Warren County. It is composed of the Lower Paleozoic rocks of the Kittatinny Valley and the Middle Paleozoic rocks of Kittatinny Mountain. The Kittatinny Valley is the northeast extension of the Great Valley of the Appalachian Mountains.”

“A wide variety of sedimentary rocks occurs in this region, including conglomerate, dolomite, limestone, siltstone, quartz sandstone, graywacke, and claystone slate.”

“As with the rocks of the Highlands, geologic structures have a profound influence on ground-water occurrence and movement in the Paleozoic rocks. All of these rocks have been folded and faulted; and the older, Cambrian and Ordovician rocks were deformed during both the Taconic and Alleghanian mountain-building episodes.”

“The amount of fracturing is greatest in the southeast part of the Great Valley, which was nearest to the intercontinental collisions that caused the faulting and folding characteristic of the province. The northwestern part of the Valley and Ridge is folded but lacks abundant large-scale faulting at the surface. Major faults in the Valley and Ridge generally strike northeast to southwest, dip steeply near the surface, and have offshoot faults.”

“The primary--or intergranular--porosity and permeability of the Paleozoic rocks is minimal, owing to compaction and cementation during formation of the rock units and to other rock-forming processes associated with later mountain building. As a result, the hydrologic properties of these sedimentary rocks are controlled by the number, size, and interconnection of fractures. Fractures that hold ground water in these rocks consist mainly of planar openings (including partings between layers or strata), joints caused by the stress of folding and faulting, and other

structural defects. In the carbonate rocks, such as limestones, these fractures are enlarged by the dissolving action, or solutioning, of ground water.” (Aquifers of Warren County)³¹

The physiographic and geologic layout of Warren County dictates water supply, availability and recharge, as well as location of agriculture. As discussed in the Warren County Agriculture Development Board’s 1998 Long Range Plan:

“Prime farmland by conventional standards is in short supply in Warren County. The physical nature of the county consists of valleys and ridges oriented roughly northeast to southwest. Sandstone and quartzite dominate the Kittatinny Mountains to the northwest and alternating ridges underlain by shale and sandstone, and valleys underlain by limestone can be found to the southeast. A terminal moraine left by the Wisconsin Glacier occupies much of the center of the county. To the southwest from the moraine can be found an area of broad topped ridges underlain by granitic gneiss and valleys underlain by deeply weathered limestone.” (Warren County Agriculture Development Board) (Long Range Plan)³²

“The farmlands are located predominantly in the valleys along the streams and rivers, except in the areas of broad ridges, which also support considerable acreage of excellent farmland. Early settlers cleared the broad expanses along the rivers where the soils were rich and loamy and there were ample supplies of water. Unfortunately, river valleys are also the primary corridors used for travel and commerce and almost all of our towns are situated in those areas where the soils will support an agricultural industry. The result has placed many of the “growth” areas within the county next to, or surrounded by, some of the county’s best soils.” (Long Range Plan)

Water Conservation Strategies

An adequate water supply is important to successful agriculture operations in Warren County. Droughts in recent years have highlighted the precarious nature of the agriculture (and general) water supply, and the need for water conservation systems and regimens.

The State Agriculture Development Committee, through its *Agricultural Smart Growth Plan*, encourages farmers to:

“ ... work to accelerate the use of efficient water conservation technologies, such as drip irrigation. Identify and promote new and efficient methods to conduct water distribution on farms, utilizing farm ponds and water reuse options.” (2006 Agricultural Smart Growth Plan)

The dominant crops in Warren County are corn, nursery and greenhouses, and hay. Corn and hay rely on rain and some groundwater for water needs, and as such, water conservation strategies per se are difficult to implement. With the more water intensive nursery and greenhouse, and produce farming, it is possible to implement conservation

strategies such as drip irrigation, water reuse, or watering crops in the cooler parts of the day. However, since vegetable, fruit, and nursery agriculture are minor (in acreage) to corn and hay, the positive effects of water conservation efforts for the county are minimized. This is evidenced by the fact that the amount of irrigated farmland in Warren County is relatively small. In 2002, 3,339 acres were irrigated on 98 farms, or approximately 4% of the farmland. There has been very little public concern expressed regarding future availability of groundwater for irrigation.

However, water intensive agriculture and processes may become more prevalent in the future. This is suggested by the fact that irrigated acres in the county has more than tripled from 1992 to 2002, from 1,006 acres to 3,339 acres. This is partly attributable to an increase in nursery and vegetable farms, and also the fact that 2002 was a drought year, with some agriculture operations using additional water resources. Therefore, water conservation strategies may become more important, and should be maximized where possible.

Waste Management and Recycling

Management of livestock waste has important implications for the quality of ground and surface waters. Unchecked, or poorly managed, these wastes can cause serious water quality problems by the introduction of unwanted microorganisms into natural systems. Poor management of animal waste can also cause disease among farm animals. Proper animal waste management is not only required, but is environmentally responsible, as is recycling of farm by-products whenever feasible.

Waste Management in Warren County

Discussion with the local NRCS office in Hackettstown and the Warren County Land Preservation Department, indicate the following regarding animal and crop waste management in Warren County:

- Many farmers have “Nutrient Management Plans” to manage the manure generated on their farms. (*Kent Hardmeyer and/or Ron Phelps*)
- Horse waste on farms can be a problem. This is due in part to the relatively small land area of horse farms, making the manure more difficult to effectively and safely distribute on fields. This can spread diseases from the horse manure. Warren County is aware that more needs to be done to control this problem. (*Kent Hardmeyer and/or Ron Phelps*)
- Relative to disease, cattle manure is not as serious a problem as horse manure. This is due in part to the relatively large land area of dairy farms, making it easier to safely and effectively distribute the manure on fields. This helps to control the spread of disease. (*Kent Hardmeyer and/or Ron Phelps*)
- At present there is no initiative at the county level to better manage animal waste. The agricultural community of Warren County may attempt to initiate better livestock waste management. (*Bob Resker*)³³

- Ag Choice LLC in Green Township, Sussex County is operated by Jay and Jill Fisher. Ag Choice picks up and accepts and then composts horse waste. It is then available as bulk pickup, is sold to landscapers, garden centers, or is bagged and sold at retail outlets. This type of operation not only helps control the problem of horse waste on farms, but is also a good revenue source for the Fishers. Warren County Farmers can review the Ag Choice operation to ascertain if similar operations might be beneficial to them. The Ag Choice website is <http://www.ag-choice.com/>.

Concentrated Animal Feeding Operations & Animal Feed Operations

Concentrated Animal Feeding Operations (CAFO) are defined at N.J.A.C. 7:14A-2.13 (New Jersey Pollutant Discharge Elimination System (NJPDES)) as (*New Jersey Discharger*)³⁴:

- Operations with more than 1,000 slaughter or feeder cattle, 700 dairy cattle, 2,500 swine, 500 horses or other animal populations. In Warren County, the only operation to fit into this category is the Ise Poultry Farm in Franklin Township, which has a CAFO permit (*Everett Chamberlain*)³⁵; or,
- Operations with more than 300 slaughter or feeder cattle, 200 dairy cattle, 750 swine, 150 horses or other animal populations, and which discharge pollutants directly to state waterways either through manmade devices or as a result of water passing through the facility or having direct contact with confined animals.

A number of Warren county farms do fit into this latter category, and are required to have waste management plans to ensure that animal wastes are properly managed. In addition, any livestock operation receiving EQIP funds must have a waste management plan.

Concentrated Animal Feeding Operations (CAFOs) and Animal Feeding Operations (AFOs) have the potential to, or do cause, water pollution through the collection of large amounts of animal waste in relatively small areas. Mismanagement of the animal waste has the potential to cause large amounts of soil and groundwater contamination via introduction of the bacteria, fecal coliform, a known contaminant from animal farming operations. The state's agricultural community bears a responsibility to help protect and restore natural resources for which they are the stewards.

The New Jersey Department of Environmental Protection (NJDEP) has outlined a statewide strategy to manage and regulate these operations. The strategy calls for NJDEP to administer CAFO permits and NJDA to administer the appropriate measures for AFOs. (*2006 Agricultural Smart Growth Plan*) The permits and measures require development and implementation of comprehensive waste management plans, utilizing "animal waste standards", proposed by NJDA for adoption in late 2007, or early 2008. (*Monique Purcell*)³⁶ The strategy emphasizes the use of cost-effective voluntary measures, limiting the need for permits. (*2006 Agricultural Smart Growth Plan*)

NJDEP Division of Water Quality - Concentrated Animal Feeding Operations

To protect the quality of surface and groundwater in and around animal farming operations, the NJDEP has adopted a general permit for managing and regulating Concentrated Animal Feeding Operations (CAFOs). The permit is administered through the New Jersey Pollutant Discharge Elimination System (NJPDES) regulations at N.J.A.C. 7:14A-2.13, under authority of the Water Pollution Control Act. In general, the permits require CAFOs to comply with the federal effluent limitation guidelines that prohibit discharge to state waters. (*New Jersey Discharger*)

The New Jersey Department of Agriculture, State Soil Conservation Committee, Natural Resources Conservation Service and New Jersey Soil Conservation Districts have partnered with NJDEP to implement the general permit as part of a statewide strategy to control pollution from CAFOs. (*New Jersey Discharger*)

Recycling

Recycling should be an important part of natural resource conservation for the agriculture industry. Recycling saves natural resources, and can also save farmers money through creative reuse, such as using leaves and grass clippings to mulch and fertilize farm fields, and saving on solid waste disposal costs. Recycling reduces the amount of refuse finding its way to limited landfill space. Corn and hay, the dominant farm product by acreage in Warren County, use limited products which can be recycled, and as such limit recycling opportunities.

However, the expanding nursery and greenhouse business in the County does offer some recycling opportunities for such items as nursery film, and potting and pesticide containers. Neighboring Sussex County's Municipal Utilities Authority (MUA) is currently working with the NJDA to develop a program for recycling nursery film in the county. The source for recycling materials would be plastic film coverings for greenhouses, which have to be replaced often, and shrink wrap used to wrap supplies while shipping or storing. If the program is successful, potting and pesticide containers may be added at a later date. The Sussex County MUA is hoping to establish the program by the end of 2007. As a natural resource conservation measure, the Warren County agriculture community may attempt to develop a similar recycling initiative, or approach the Sussex County MUA to potentially partner with them on their recycling initiative. In addition, the Warren County agriculture community can contact the Warren County Recycling Coordinator and the Warren County Pollution Control Financing Authority for possible recycling markets.

Energy Conservation

Energy conservation makes economic sense for Warren County agriculture businesses. The less energy a farmer uses, the less money spent on energy, and the more money that can be invested elsewhere, or realized as profit. However, energy conservation and the use of alternate technologies also make environmental sense. They help keep the air, water and soil clean, and minimize or eliminate further pollution to these critical agricultural

resources. Also, with the impending threat of global warming due to excessive carbon dioxide emissions into the atmosphere, energy conservation and the use of alternate energy sources can help to slow this warming trend.

This goal of reducing greenhouse gases is indicated in the Regional Greenhouse Gas Initiative (RGGI), a compact signed by the Governors of 10 states, including New Jersey. As part of RGGI, the potential trading of carbon credits between energy companies and farmers can offer financial incentives for farmers to utilize processes that minimize carbon dioxide production. (*David Dech*)³⁷

In its 2006 “*Agricultural Smart Growth Plan*”, the New Jersey Department of Agriculture emphasizes the importance of energy conservation and alternative energy use. The Plan indicates that it is important to:

“Promote the use of innovative technologies, recycling, energy conservation and renewable energy systems on New Jersey’s farms” and to “Promote, provide technical assistance for and inform the agricultural community about new and existing energy conservation and renewable energy programs by promoting the financial and environmental benefits of implementing these programs.” Also, the NJDA indicates that *“Through (these) numerous efforts coordinated between the state and federal levels, New Jersey’s agricultural community is proving itself to be an important player in protecting our state’s natural resources. Clearly, there is more work to be done, and the agricultural community has shown initiative in pursuing alternative energy sources, such as solar, wind and bio-gas in running farm operations, and by being a leader in the pursuit of ethanol and bio-diesel fuel markets.”* (2006 *Agricultural Smart Growth Plan*)

The SADC does not have a formal policy for the use of wind and solar energy on commercial farms. However, discussions with the SADC indicate:

- SADC is supportive of solar and wind energy use on commercial farms as long as the main purpose of the produced energy is for use on the farm. This does not preclude the sale of excess energy production back to the power grid; and,
- Installation of solar panels, wind turbines and other appurtenant equipment must not negatively impact production of the agricultural land, and agricultural land must not be taken out of production.

(*Steve Bruder*)³⁸

At present, there is only minimal effort to initiate energy conservation at the county level. The EQIP natural resource conservation program pays for some energy production programs, such as the aforementioned replacement of older, dirty polluting diesel engines, with newer, more efficient, cleaner burning engines. EQIP also pays rebates to farmers for the use of bio-diesel, and is also used to rebate farmers who have installed solar panels. (*Kent Hardmeyer and/or Ron Phelps*) The preserved Gene Makarevich farm in Knowlton Township has installed solar panels. (*Bob Resker*) Energy conservation and renewable energy is one area that the Warren CADB and the county agricultural community can explore to assist farmers in saving money, and subsequently provide ecological benefit.

Solar Energy

Solar energy can be harnessed via the installation of solar panels. This harnessed or stored energy can then be used to create electricity and provide heat. If excess electricity is generated, it can be sold back to the electric grid for a profit. The overall use of solar panels has greatly increased in New Jersey. (*Agriculture and Green Energy*)³⁹ EQIP does provide some funding for solar panels, and farmers interested in using this alternate energy source can contact the local NRCS office in Hackettstown for more information.

Other programs available to help agricultural producers take advantage of this technology include U.S. Department of Energy, “Solar Energy Technology Program”, <http://www1.eere.energy.gov/solar/> and the “Solar Energy for New Jersey Agriculture” work and information sheet at <http://www.state.nj.us/agriculture/pdf/solarenergyguide.pdf>. Solar energy is one of the fastest growing sectors in the alternative energy market, and Warren County farmers can take advantage of this money and energy saving technology.

Wind Energy

The power of a strong wind can be captured by turbines or windmills, turning such power into electricity. Expanding and evolving technology is making this option more attractive to farmers as a way to cut energy costs. According to the NJDA the northwest part of New Jersey, which includes Warren County, has ample and consistent enough wind power to make turbine energy feasible. (*2006 Agricultural Smart Growth Plan*) One possible roadblock to use of wind turbines is that few, if any, municipal ordinances allow the use of wind turbines. If this is indeed the case, then the Warren County CADB can work with the county planning department, and local towns, to study and approve wind turbines as an allowed use.

Ethanol and Pelletized Switchgrass

Ethanol is a renewable fuel “made by distilling the starch and sugar in a variety of plants.” (*Agriculture and Green Energy*) It can then be blended into gasoline as an “oxygenate”, reducing air pollution. Its use also reduces dependence on foreign oil, and the harmful environmental effects of oil drilling. Also, unlike the gasoline additive MTBE, ethanol will not contaminate groundwater. (*Agriculture and Green Energy*) Corn, the dominant field crop in Warren County (along with hay), could position Warren County farmers to financially capitalize on the spreading movement towards ethanol-blended fuels. More study would need to be done on whether this would be profitable for county farmers, and how it would affect other local agriculture industries (for instance, how it would affect the dairy industry’s supply of, and price for, feed corn).

In addition, interest has been shown in utilizing switchgrass to make energy producing pellets. This could be an additional market for Warren County farmers, and another source of clean energy.

Bio-diesel

Petroleum diesel is an emitter of sulfur emissions, a major air pollutant. Bio-diesel, made from the oils of soybeans, is an alternative to petroleum diesel. This organic fuel can be blended and used in diesel engines without modification. The result is a significant reduction of the harmful fumes produced by pure petroleum diesel. (*Agriculture and Green Energy*) As of 2004, there were 5,768 acres of soybeans that were farmland assessed. Bio-diesel may be a potential viable market for the County's soybean farmers.

Renewable Energy Grant Programs

The NJDA provides the following information on renewable energy grant programs, which can help encourage the use of these energy sources:

New Jersey Clean Energy Program: Administered by the New Jersey Board of Public Utilities, this program provides financial incentives to install clean energy systems, including fuel cells, solar energy, small wind and sustainable biomass equipment. Financial incentives are in the form of rebates, grants and loans. Additional information is at www.njcep.com/.

Renewable Energy Systems and Energy Efficiency Improvements Program: As part of the 2002 Farm Bill, this program "funds grants and loan guarantees to agricultural producers for assistance with purchasing renewable energy systems and making energy efficiency improvements". Final rules for loans and grants were adopted by the U.S. Department of Agriculture in July 2005. The proposed 2007 Farm Bill would continue this funding. Additional information can be found at www.rurdev.usda.gov/rbs/farmland/index.html.

Biomass Research and Development Initiative Grants: The United States Departments of Agriculture and Energy support development of biomass energy. Grants are available for research, development and demonstrations on bio-based products, bio-energy, bio-fuels, bio-power and additional related processes. In the recent past, grants have focused on development and demonstration projects that lead to greater commercialization. Additional information is available at:

<http://www.state.nj.us/agriculture/news/hottopics/topics060222.html>.

(*Agriculture and Green Energy*)

¹ United States Department of Agriculture, Natural Resources Conservation Service, Information For Farmers. <http://www.nj.nrcs.usda.gov/farmers.html>. Accessed April 9, 2007.

² Personal communication with Kent Hardmeyer and/or Ron Phelps, United States Department of Agriculture, Natural Resources Conservation Service, May 15 and 16, 2007. June 6, 2007.

³ Personal Communication with Ken Bingham, United States Department of Agriculture, Farm Service Agency. June 11, 2007.

⁴ United States Department of Agriculture, Natural Resources Conservation Service, New Jersey. <http://www.nj.nrcs.usda.gov/>. Accessed March 26, 2007.

⁵ New Jersey Department of Agriculture, Agricultural and Natural Resources. <http://www.state.nj.us/agriculture/divisions/anr/>. Accessed April 10, 2007.

⁶ New Jersey Agricultural Experiment Station, Rutgers Cooperative Extension of Warren County. <http://njaes.rutgers.edu/county/quickinfo.asp?Warren>. Accessed April 15, 2007.

⁷ Personal Communication with Bill Tietjen, Rutgers Cooperative Extension of Warren County. May 30, 2007.

⁸ New Jersey Department of Environmental Protection, Division of Parks and Forestry, Private Lands Management Program. http://www.nj.gov/dep/parksandforests/forest/njfs_private_lands_mgt.html. Accessed April 13, 2007.

⁹ Personal Communication with Jim Barresi, Assistant Director, New Jersey Department of Environmental Protection, Division of Parks and Forestry. June 12, 2007.

¹⁰ New Jersey Department of Treasury, Division of Taxation. Farmland Assessment Act of 1964, Chapter 48, Laws of 1964, Revised, Thirty Eighth Report Of Data From FA-1 Forms For 2006 Tax Year. December 2006.

¹¹ New Jersey Department of Agriculture, State Agriculture Development Committee, Warren County Agricultural Profile, April 13, 2007.

¹² Personal communication with Kim Korth, New Jersey Department of Environmental Protection, Non-game Endangered Species Program. July 24, 2007.

¹³ Personal communication with Jim Haase, New Jersey Department of Environmental Protection, New Jersey Forest Service. July 20, 2007.

¹⁴ North Jersey Resource Conservation and Development Council. <http://www.northjerseyrcd.org/>. Accessed November 5, 2007.

¹⁵ United States Department of Agriculture, Conservation Programs Offered In New Jersey, Programs Available in 2006. ftp://ftp-fc.sc.egov.usda.gov/NJ/programs/Conservation_Programs_Offered_in_New_Jersey.pdf. Accessed April 13, 2007.

¹⁶ United States Department of Agriculture, Fact Sheet, USDA'S 2007 Farm Bill Proposals. http://www.usda.gov/wps/portal/ut/p/_s.7_0_A/7_0_1UH?contentidonly=true&contentid=2007/01/0019.xml. Accessed April 14, 2007.

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- ¹⁷ American Farmland Trust, The Farm, Nutrition and Community Investment Act. http://www.farmland.org/programs/states/me/documents/AFT_FNCIA_S-D-G_Northeast_WebApr07.pdf. Accessed June 9, 2007.
- ¹⁸ Personal communication with Jim Baird, Mid-Atlantic Region Director, American Farmland Trust. June 26, 2007.
- ¹⁹ Personal communication with Jennifer Morrill, Director of Media Relations, American Farmland Trust. October 29, 2007.
- ²⁰ United States Department of Agriculture, New Jersey Natural Resources Conservation Service Conservation Programs. <http://www.nj.nrcs.usda.gov/programs/>. Accessed April 9, 2007.
- ²¹ Personal communication with John Parke, New Jersey Audubon Society. September, 7, 2007.
- ²² AG Choice, LLC. <http://www.ag-choice.com/index.html>. Accessed June 24, 2007.
- ²³ Personal communication with Janice Reid, Assistant State Conservationist, United States Department of Agriculture, Natural Resources Conservation Service. June 26, 2007.
- ²⁴ Personal communication with Tim Dunne, United States Department of Agriculture, Natural Resources Conservation Service. June 25, 2007.
- ²⁵ Personal communication with Dave Schaaf, District Manager, Warren County Soil Conservation District. June 13, 2007.
- ²⁶ New Jersey Department of Agriculture, Soil and Water Conservation Grants. <http://www.state.nj.us/agriculture/grants/soil.html>. Accessed April 14, 2007.
- ²⁷ Warren County Planning Department, Warren County Strategic Growth Plan. October 2005. http://www.co.warren.nj.us/planning/county_strategic_growth_plan.html. Accessed April 15, 2007.
- ²⁸ Warren County Planning Department. Warren County Open Space Plan, 1999.
- ²⁹ *New Jersey State Development and Redevelopment Plan*. New Jersey Department of Community Affairs, Office of Smart Growth. New Jersey State Development and Redevelopment Plan. <http://www.nj.gov/dca/osg/plan/stateplan.shtml>. Accessed June 24, 2007.
- ³⁰ New Jersey Department of Agriculture, 2006 Agricultural Smart Growth Plan. <http://www.state.nj.us/agriculture/pdf/smartgrowthplan.pdf>. Accessed April 9, 2007.
- ³¹ Warren County Environmental Commission. Aquifers of Warren County, Robert Canace, Acting Section Chief, Bureau of Groundwater Resources Evaluation, New Jersey Geological Survey. <http://76.162.120.189/enviro/aquifers.html>. Accessed September 18, 2007.
- ³² Warren County Agriculture Development Board, Long Range Plan. 1998. Page 2.
- ³³ Personal communication with Bob Resker, Warren County Land Preservation Office. May 9, 2007.
- ³⁴ New Jersey Department of Environmental Protection, New Jersey Discharger, Volume 11, No. 2, Fall 2003. New Storm water General Permit for Concentrated Animal Feeding Operations. <http://www.state.nj.us/dep/dwq/discharg/v11n2h.htm>. Accessed April 17, 2007.

³⁵ Personal communication with Everett Chamberlain, Rutgers Cooperative Extension of Warren County. June 20, 2007.

³⁶ E-mail correspondence with Monique Purcell, New Jersey Department of Agriculture, Division of Agriculture and Natural Resources. April 18, 2007.

³⁷ Personal communication with David Dech, Warren County Planning Director. October 12, 2007.

³⁸ Personal communication with Steve Bruder, SADC. August 23, 2007.

³⁹ New Jersey Department of Agriculture, Agriculture and Green Energy.
<http://www.state.nj.us/agriculture/news/hottopics/topics060222.html>. Accessed April 2, 2007.

CHAPTER 8: AGRICULTURAL INDUSTRY SUSTAINABILITY, RETENTION AND PROMOTION



Existing Agricultural Industry Support

Right to Farm

To ensure farmers have the ability to practice accepted agricultural operations, the Right to Farm Act (RFA) was enacted by the State Legislature in 1983 and amended in 1998. The Act provides “protection of commercial farm operations from nuisance action, where recognized methods and techniques of agricultural production are applied, while, at the same time, acknowledging the need to provide a proper balance among the varied and conflicting interests of all lawful activities in New Jersey.” (*SADC Right to Farm Program*)¹ Another critical piece of legislation to support agriculture was the 1983 Agriculture Retention and Development Act. This Act created the State Agriculture Development Committee (SADC), and eighteen County Agriculture Development Boards (CADB’s). Both the SADC and CADB implement the RFA on the State and local levels. (*New Jersey’s Great Northwest Skylands*)²

The SADC works to maximize protection for commercial farmers under the RFA by developing Agricultural Management Practices, tracking right to farm cases, offering a conflict resolution process, and reviewing rules proposed by other state agencies for the impact they may have on agriculture. In order to qualify for right to farm protection a farm must meet the definition of a “commercial farm” in the RFA; be operated in conformance with federal and state law; comply with agricultural management practices recommended by the SADC or site specific agricultural management practices; must not be a direct threat to public health and safety; and, must be located in an area where agriculture was a permitted use under municipal zoning ordinances as of December 31, 1997, or thereafter; or, must have been an operating farm as of December 31, 1997. (*Eligibility Criteria for RTF Act Protection*)³

All right to farm complaints or issues that are brought before the Warren CADB are first handled with fact finding and efforts to resolve differences between the parties. The mediation can be informal or, if the parties agree, the SADC will provide mediation or conflict resolution at no cost to the participants through its Agricultural Mediation Program. If a formal complaint is filed with the Warren CADB, it is sent to the SADC for a determination as to whether the farm falls within the parameters established by the RFA for

right to farm protection. Once the complaint is returned to the Warren CADB from the SADC, additional fact finding and technical review occurs and the issue is given a public, quasi-judicial hearing at the county level. After all information has been considered, the Warren CADB will make a determination as to whether the agricultural activity is protected by the RFA or whether changes to the operation will be required. If the issue is not resolved by the Warren CADB determination, either party in the dispute may take the matter for a subsequent appeal and determination to the New Jersey Office of Administrative Law. (*Resolving Agricultural-Related Conflicts*)⁴

Municipalities can and should limit the number of right to farm complaints and encourage farming as an industry by:

- Adopting comprehensive right to farm ordinances as outlined by the SADC.
- Making agriculture a permitted use in all appropriate zones.
- Requiring notification of homeowners purchasing a home in a new subdivision that active agriculture occurs on adjacent property.

Fourteen of the twenty two municipalities in Warren County have established a Right to Farm Ordinance. The following Table lists municipalities within Warren County that have Right to Farm ordinances, along with summary information on the ordinance. The model ordinance, as developed by the State Agriculture Development Committee, is included in the *Appendix*. (*Model*)⁵

Right to Farm Ordinances are a necessary item if a municipality, or property owner, wishes to enter into the farmland preservation program. Therefore, all municipalities within Warren County with commercial farms are encouraged to adopt a Right to Farm Ordinance, and to update their existing ordinances to be consistent with the SADC model ordinance.

While each of these Right to Farm Ordinances provides basic protection of the farmer, they are generally not as comprehensive as the SADC model. The Warren CADB will annually request each municipality to review their ordinance and consider compliance with the State model.

Municipal Right to Farm Ordinances

<i>Township</i>	<i>Code#</i>	<i>RTFO</i>
Allamuchy Township	77-1 to 77-4	The right to farm is recognized as a right of the farmer so as to pursue his livelihood. Some agricultural activities covered by this right to farm protection include use of large irrigation pumps, use of large tractors and customary farm equipment, and grazing of animals. Farming operations may be conducted on holidays, Sundays and weekdays, in the evening and during the day. Intensive livestock operations are subject to other county, state and federal law.

<i>Township</i>	<i>Code#</i>	<i>RTFO</i>
Blairstown Township	153-1 to 153-6, and 19-607	The right to farm is recognized as a natural right. Six items are given right to farm protection such as use of farm equipment and methods, farming on Sundays, holidays, weekends, in the evening and during the day. Notice must be given to all real estate buyers in agriculture zones of right to farm protections.
Franklin Township	15	The right to farm is recognized as a right of the farmer so as to pursue his livelihood. Some agricultural activities covered by this right to farm protection include fertilizing and spraying, use of large tractors and customary farm equipment, and grazing of animals. Farming operations may be conducted on holidays, Sundays and weekdays, in the evening and during the day.
Frelinghuysen Township	15-1.1 to 15-1.4	The right to farm is recognized as a right of the farmer so as to pursue his livelihood. These rights include use of irrigation pumps and equipment, use of large tractors and customary farming equipment, and grazing of animals. The right to conduct agricultural operations on Sundays and holidays, or in the evening, is also included.
Greenwich Township	16-20.4 to 16-20.5	Property owners in new subdivisions must be given notice of right to farm protections. The right to conduct agricultural operations on Sundays and holidays, or in the evening, is also included.
Harmony Township	165-20.1	The right to farm is recognized as a right of the farmer so as to pursue his livelihood. These rights include use of irrigation pumps and equipment, use of large tractors and customary farming equipment, and grazing of animals. The right to conduct agricultural operations on Sundays and holidays, or in the evening, is also included. Intensive livestock operations are subject to other county, state and federal law. The ordinance also recognizes use of necessary farm laborers.

<i>Township</i>	<i>Code#</i>	<i>RTFO</i>
Hope Township	20-29	13 agricultural activities are protected, including use of irrigation pumps and equipment, on-site distribution of organic agricultural wastes, use of farming equipment, use of farm labor, processing and packaging of farm output, and grazing of animals. The right to conduct agricultural operations on Sundays and holidays, or in the evening, is also included.
Independence Township	97-1 to 97-4	The right to farm is recognized as a right of the farmer so as to pursue his livelihood. Recognized agricultural activities include use of irrigation pumps and equipment, spraying and fertilizing, and grazing of animals. The right to conduct agricultural operations on Sundays and holidays, or in the evening, is also included.
Knowlton Township	97-13	The right to farm is recognized as a right of the farmer so as to pursue his livelihood. 11 agricultural activities are recognized, including use of irrigation pumps and equipment, use and housing of farm laborers, grazing of animals, and marketing of produce on site. The right to conduct agricultural operations on Sundays and holidays, or in the evening, is also included.
Liberty Township	2000	Nine agricultural activities are recognized as a “natural right”, including processing and packaging of farm output, operation of farm markets, on-site distribution of organic agricultural wastes, and control of pests. Farming is exempt from time operation restrictions.
Mansfield Township	2000-8	Nine agricultural activities are recognized as a “natural right”, including on-site distribution of organic agricultural wastes, processing and packaging of farm output, farm based recreational and educational activities, and control of pests and predators. Farming is exempt from time operation restrictions.
Pohatcong Township	285-31	The right to farm is recognized as a right of the farmer so as to pursue his livelihood. Eight agricultural activities are recognized, including use of irrigation pumps and equipment, use of necessary farm labor, construction of fences, and grazing of animals. The right to conduct agricultural operations on Sundays and holidays, or in the evening, is also included.

<i>Township</i>	<i>Code#</i>	<i>RTFO</i>
Washington Township	99-14	Grants the right to engage in agriculture, and presumes it does not constitute a public or private nuisance. Real estate purchasers in agriculture zones must be notified of the Right to Farm Ordinance.
White Township	65-1 to 65-6	Grants the right to engage in agriculture, and presumes it does not constitute a public or private nuisance. The right to conduct agricultural operations on Sundays and holidays, or in the evening, is also included. Property owners in new subdivisions must be given notice of right to farm protections.

Farmland Assessment

The Farmland Assessment program is a tax incentive which reduces property taxes on active commercial farmed land, thereby assisting farmers with a critical financial aspect in helping to keep land in farms. This tax incentive is made possible by the Farmland Assessment Act of 1964, N.J.S.A. 54:4-23.1 et seq.

Basic eligibility requirements include:

- The applicant must own the land;
- The property owner must apply annually for Farmland Assessment on or before August 1 of the year immediately preceding the tax year;
- Land must be devoted to agricultural and/or horticultural uses for at least two years prior to the tax year;
- Land must consist of at least five contiguous farmed and/or woodland management plan acres. Land under or adjoining a farmhouse is not counted towards the minimum five acres;
- Gross sales of products from the land must average at least \$500 per year for the first five acres, plus an average of \$5.00 per acre for each acre over five. In the case of woodland or wetland, the income requirement is \$.50 per acre for any acreage over five. Dependent on the agricultural or horticultural products being produced, the farmer can also offer clear evidence of anticipated yearly gross sales, payments, or fees within a reasonable period of time; and,
- The property owner must represent that the land will continue in agricultural or horticultural use to the end of the tax year.

*(New Jersey's Farmland Assessment Act)*⁶

The Farmland Assessment program does not, however, apply to farm structures, such as barns and storage facilities. It has been proposed that additional tax incentives which encourage farmers to maintain their buildings in good working order as part of active farm operations, and which do not financially penalize them for renovating or replacing old or unsafe structures, are necessary. Maintained buildings are not only critical to the farmer

but also add to farm “aesthetics” for the larger community, helping to support Agritourism, an element of agricultural sustainability in Warren County.

Warren County is 364 square miles, or 229,035 acres (total does not include 3,940 acres of water, and 194 acres of unconsolidated shore). Of this, 110,599 acres (or 48.3 percent of the County) are under farmland assessment. General trends indicate:

- An upward trend in overall farmland assessed acreage since 1983, though much of the increase is not in actual farmed acres, but rather in woodlands that are part of farmland assessed acres;
- Harvested cropland was 49,033 acres in 1983, which steadily increased until 2001 to 50,117 acres, but has since decreased to 47,689 acres in 2004;
- Pastured cropland was at 5,865 acres in 1983, decreasing to 4,968 acres in 2002, but since then increasing to 5,170 acres in 2004;
- Permanent pasture acreage decreased from the 1983 to 2003 time period, from 13,513 acres to 12,001 acres, before increasing to 13,887 acres in 2004;
- Equine acreage has had an overall increase since it was first measured in 2000, from 403 acres to 412 acres in 2004. However, from 2001 to 2003 equine acreage had been less than 350 acres;
- The total county acreage (for active agricultural use, woodlands and equine) in farmland assessment mirrors these overall upward trends. In 1983 there were 100,213 acres, while in 2004 there were 110,599 acres, a nearly 10 percent increase of farmland assessed acreage. Though, as previously stated, much of the increase was due to woodland acres; and,
- Overall active agricultural acreage in farmland assessment decreased from 68,411 acres in 1983 to 66,746 acres in 2004.
(*Warren County Agricultural Profile*)⁷

It is important to sustain and expand tax incentives such as Farmland Assessment to keep land in farms, and to encourage the development or extension of other tax incentives for the agricultural industry. By making agriculture more profitable and viable, tax incentives will help to ensure a steady, permanent source of agricultural lands for the county’s farmland preservation efforts.

Additional Strategies to Sustain, Retain, and Promote Agriculture in Warren County

Regulatory Flexibility

Municipalities play a key role in the preservation of farming as an industry. In municipalities with a sizable acreage of assessed farmland, zoning powers can be utilized to require buffers between agriculture and other uses to minimize conflict. The Right to Farm Ordinances are an active example of municipalities’ support for agriculture. Such actions create an atmosphere favorable to agriculture, its economics and profitability.

The viability of farming in New Jersey is impacted by many issues, including government regulation, development pressures, and the economics of the marketplace. While land preservation is vital for maintaining a sufficient land base suitable for farming, sustaining Warren County's strong agricultural base requires support on many fronts, one of which is flexibility in government regulation. (*Agricultural Smart Growth Plan 2006*)⁸ It is essential that the Warren CADB, Land Use Preservation Office, Board of Agriculture, County Freeholders, Soil Conservation District, Natural Resource Conservation Service, Rutgers Cooperative Extension of Warren County, municipal planning and zoning boards, chambers of commerce, private farm preservation groups, and other interested entities and individuals, work together to present a united front in issues regarding government regulation and permits as they relate to agriculture. The 2006 *Agricultural Smart Growth Plan* for New Jersey identified the following as important relative to regulatory flexibility and priority, and which the aforementioned entities must work to ensure proper advantage for agriculture in Warren County:

- *Positive and supportive public policy:* This includes legal protection (right to farm), priority in decisions on taxation (farmland assessment), regulation exemptions, and financial incentives (planning incentive grants). These need to be strengthened and modified if, and when, necessary;
- *Exemptions:* State, county, and municipal regulations must be responsive to the needs of farmers. Minor changes to, or exemptions from, certain local and state regulations, rules, and ordinances help to buffer agricultural operations from burdensome costs, creating a farmer-friendly environment. Pertinent examples are the strong Right to Farm Ordinances in fourteen of the twenty two municipalities within the county. At a state level, the Department of Environmental Protection's "Freshwater Wetlands Protection Act Rules" (N.J.A.C. 7:7A-et. seq.) and the "Flood Hazard Area Control Act Rules" (N.J.A.C. 7:13) grant exemptions, permits by rule, or general permits for agricultural activities. In addition, for the Department of Environmental Protection's "Highlands Water Protection and Planning Act Rules" (N.J.A.C. 7:38), exemptions are allowed for activities conducted in accordance with an approved Woodland Management Plan issued pursuant to the Farmland Assessment Act. The Warren County agriculture community must work to ensure that exemptions are adequate and reasonable;
- *Flexibility:* State agencies such as the Department of Environmental Protection, Department of Transportation, Department of Community Affairs, Department of Labor, and New Jersey Commerce Commission, should consider the NJDA Agricultural Smart Growth Plan when making important decisions regarding existing and proposed infrastructure, developing and amending regulations and programs, and protecting environmental and historical resources. These agencies should coordinate with NJDA to ensure that regulations, programs, etc. are attuned to the needs of Warren County farmers;
- *Agriculture-Friendly Zoning:* This refers to a comprehensive land use practice that coordinates zoning and land use policy in a proactive way. The desired result is that it encourages agribusiness, while at the same time reducing the incidence of farmer-homeowner nuisance issues. In other words, it seeks to harmonize

potentially conflicting land use policies. This strategy would be done mostly at the local and county levels.

(Agricultural Smart Growth Plan 2006)

Farm Labor

An adequate labor supply is integral to harvesting vegetables, fruits, and berries. Measured in farmed acreage, Warren County has a relatively small industry for these products compared with field crops such as corn and hay, and also dairy, goat, sheep, and nursery products. Harvesting of the latter farm products is more mechanized, and/or not as labor intensive as produce, with most work being done by farm family members. *(Kent Hardmeyer)*⁹ Fruits, berries, and vegetables occupy approximately 95% less land in Warren County than field crops and nursery products. As of 2004, 2,398 acres were devoted to fruits, berries, and vegetables, while 46,324 acres were devoted to field crops and nursery products. *(Warren County Agricultural Profile)* Much of the fruit, berry, and vegetable growing is concentrated in the Great Meadows Area, a fertile valley area of a former glacial lake. The Great Meadows' fertile soils and adequate water supply make it more amenable to fruit and vegetable farming. *(Bob Resker)*¹⁰ The limited amount of farm labor in Warren County generally lives on the farm where they work. *(Kent Hardmeyer)* Since the overall acreage devoted to labor intensive farming is minimized in the county, farm labor housing, a large issue in counties with high farm labor populations is, for the most part, not of high concern in Warren County.

The U.S. Census of Agriculture reports that hired farm labor costs in New Jersey totaled \$115.2 million in 1992 and rose to \$142.9 million in 1997, representing 26.7 % and 27.8 % of total farm production costs respectively, a rise of 1.1%. In Warren County hired farm labor costs for 1992 were \$6.7 million, which decreased in 1997 to \$6 million, representing 18.1% and 14.9% of total farm production costs respectively, a decrease of 3.2% (more recent county figures are not available). *(U.S. Census of Agriculture)*¹¹ Rising farm labor costs in Warren County are not currently impacting agriculture sustainability. However, as this trend may change over time, a brief discussion of the topic is warranted.

Hired farm workers continue to be one of the most economically disadvantaged groups in the United States due to low wages, seasonal employment, and limited participation in the non-farm labor market. Therefore, as an important statewide resource to the agricultural industry, the New Jersey Department of Labor recommends that more must be done to ensure a well-trained, educated farm labor workforce, that has adequate living and working conditions, and is trained in worker safety. *(Agricultural Smart Growth Plan 2006)*

The New Jersey Department of Labor recommends the following:

- Work with the U.S. Department of Agriculture's Rural Development program to reexamine program criteria to enable New Jersey's rural communities to qualify for more programs. The current focus of the program, such as rural area infrastructure, is not applicable to Warren County (and New Jersey).

- Link neighborhood revitalization efforts with housing opportunities for farm workers and, where appropriate, establish on-site housing, to ensure a safe and stable workforce.
- Develop and promote comprehensive and ongoing training opportunities for farm workers.
- Work with the New Jersey Department of Labor, Rutgers Cooperative Extension and others to provide farm safety training.
- Join other agricultural stakeholders in supporting ongoing efforts at the federal level to streamline and modernize the immigration process.

(Agricultural Smart Growth Plan 2006)

In January 2006, the “Agriculture Transition Policy Group” (Group), composed of government and agriculture industry representatives, submitted a report to then Governor-elect Jon Corzine, with recommendations to keep agriculture strong and viable in the Garden State. The Group reported many serious problems facing New Jersey farm employers. Two of these are the impacts of the new state minimum wage (now \$7.15 per hour), and the ever looming issue before the U.S. Congress regarding immigration and undocumented workers. The Group reports that the sponsor of the minimum wage legislation (name not provided) has promised to “re-visit the issue for agriculture to find some off-sets that will protect farm viability and keep the industry at a competitive level.” *(Report of the Agriculture Transition Policy Group)*¹²

The New Jersey Department of Agriculture has specified the identification and posting of new markets as a specific strategy in its 2007 *Economic Development Strategies* report. This effort is a necessary outgrowth of the report’s finding that due to the State’s high labor rates (in addition to high land values and property taxes) production costs in New Jersey are higher than in most other areas. With commodity prices based on national production costs, yields and demand, it is less profitable to produce commodity items in New Jersey than elsewhere. *(Economic Development Strategies)*¹³

Finally, agriculture labor education and training funding may be available through the New Jersey Department of Labor and Workforce Development programs. These programs can help to assist in upgrading the skills and productivity of the agricultural workforce. *(Training)*¹⁴ Some of the programs which may be applicable include Customized Training Initiative, Basic Skills Program, and Occupational Safety and Health Training Program.

Agriculture Labor Training and Farmer Education

To sustain a modern, diverse and stable food and agricultural industry, education and progressive, ongoing training for workers will promote a more efficient and productive business environment. This includes programs covering “farmer risk management education, labor education including worker safety, agricultural leadership training, secondary school and college agricultural education.” *(Agricultural Smart Growth Plan 2006)*

One educational link for Warren County agricultural land owners and operators is to collaborate with the Rutgers Cooperative Extension (RCE) of Warren County (associated with the School of Environmental and Biological Sciences [formerly Cook College], Rutgers University). The size of the farm to which RCE lends assistance can vary greatly, from small one to five acre farms, to farms consisting of many hundreds of acres. During the growing season, RCE of Warren County provides one on one, on-site consultations with farmers to assist with control of insect infestations and plant diseases for fruits, vegetables, greenhouse nurseries and ornamentals, and also for field crops. Similar farm animal consultation is provided on a year round basis. During these one-on-one consultations, technical scientific research is relayed to the farmer in a useful and applicable manner. During the growing season, RCE of Warren County also conducts “twilight meetings” for fruits and vegetables at local farms, to discuss a wide range of issues relative to these agricultural products. In August of every year a twilight meeting is held locally to discuss sustainable horticulture. (*Bill Tietjen*)¹⁵

In the winter months, regional and local classes are conducted by RCE of Warren and Hunterdon Counties on a diverse set of agriculture topics. Two classes of special significance are conducted with the North Jersey Vegetable and Fruit Growers Association. A class on vegetable growing is conducted at the Snyder Farm in Pittstown, Hunterdon County, while a similar class on fruit growing is held at the Warren Grange in Franklin Township, Warren County. (*Bill Tietjen*)

RCE of Warren County also provides practical assistance to farmers. Examples are assistance in obtaining pesticide application licenses (necessary to buy and apply pesticides), and also to obtain water certification and registration permits from the New Jersey Department of Environmental Protection, for groundwater and/or surface water allocations. Finally, the RCE of Warren County performs applied research on area farms to further knowledge on a wide range of issues pertaining to agricultural plants and animals. Results of any research are used to advise local farmers on an as needed basis. (*Bill Tietjen*) All of the aforementioned available programs and assistance offer an individual farm operator the opportunity to gain the latest information on numerous and pertinent agriculture topics, which are important to agricultural sustainability.

Discussions with Warren County Community College indicate that at present agriculture education courses are not offered at the College. However, the College would be willing to explore the possibility of setting up college level or continuing education course(s) if requested to do so by the Warren County Agriculture Development Board, or the wider agriculture community. (*Lisa Summins*)¹⁶ The Warren County Agriculture Development Board can inquire among Warren County farmers, and also coordinate with CADB’s from neighboring counties, on the interest level for agricultural college and continuing education courses. If enough interest is found, the CADB can contact Warren County Community College to discuss agriculture education opportunities that may be developed.

Through its Division of Agriculture and Natural Resources’, Natural Resource Conservation Program, the New Jersey Department of Agriculture offers technical, financial, and regulatory assistance, and provides educational outreach to landowners

throughout the state. The Department also offers, in conjunction with the U.S. Department of Agriculture, farm risk management and crop insurance education programs to assist farmers in understanding what assistance is available to reduce agricultural risks. (*Agricultural Smart Growth Plan 2006*)

Finally, as a form of “education”, government agencies at the federal, state and county level can provide continuous outreach information to farmers, and survey for farmer education needs, to ensure farmers take full advantage of all federal and state loan, grant, education, and technical assistance programs. This is especially important since these programs are meant to aide the farming business to thrive and survive. Due to the complexity and vast array of the programs, they may be unknown to many farmers.

Youth Farmer Education Programs

Due to the aging farmer population in Warren County (50.3 years in 1982, as compared to 55.8 years in 2002) (*Warren County Agricultural Profile*) the next generation of the county’s farmers needs to become interested in and exposed to the business of agriculture, and be prepared to enter the industry. Educational programs in agriculture offered as an optional and viable opportunity for the youth of Warren County will assist those who are interested in pursuing such careers. Creating new opportunities via secondary and post secondary education programs in Agriculture, Food and Natural Resources will reassure students that opportunities exist for them in Warren County. (*Agricultural Smart Growth Plan 2006*)

The National Future Farmers of America (FFA) Organization “operates under a Federal Charter granted by the 81st Congress of the United States, and is an integral part of public instruction in agriculture.” (*National FFA Organization*)¹⁷ The National FFA Organization was founded in 1928, and currently has 7,242 chapters and nearly 500,000 members. (*National FFA Organization*) Through the local FFA and New Jersey Department of Agriculture’s Office of Agriculture, Food and Natural Resource Education, Warren County offers youth agriculture education at Belvidere High School for Agriculture Business Management and Horticulture; at Hackettstown Regional High School for Floriculture and Floristry, and Operation and Management of Horticulture; at North Warren Regional High School for Horticulture; at Phillipsburg High School for Agriculture Business Management, Horticulture, and Landscaping & Groundskeeping; and, at Warren Hills Regional High School for Horticulture. (*Office of Agriculture*)¹⁸ These same high schools also have local FFA chapters. Robin McLean is the local FFA representative and can be contacted at 1-877-243-3332 for further information.

Youth agriculture education classes or programs are not offered at any elementary schools within the County, but are an opportunity to cultivate young people’s interest in the field of agriculture.

The national Agriculture in the Classroom program helps K-12 students become aware of the importance of agriculture. 4-H is an informal, practical educational program for youth, which assists young people interested in farm animals through livestock projects. The New

Jersey Agricultural Society's Agriculture Leadership Program provides young professionals in agriculture with leadership development skills and opportunities. (*Agricultural Smart Growth Plan 2006*)

In addition, the New Jersey Department of Agriculture offers an "Agricultural Education" program. This is "a systematic program of instruction available to students desiring to learn about the science, business, and technology of plant and animal production and/or about the environmental and natural resources systems. A complete Agricultural Education program is composed of three components: class/lab instruction, supervised agricultural experience (SAE), and FFA, which provide a well-rounded and practical approach to student learning." (*Agricultural Education*)¹⁹

Public outreach

Over the last 50 years, New Jersey has transformed away from a largely rural and agricultural landscape, to a more urban and suburban landscape. However, farming remains strong and viable in many portions of the state, especially within Warren County. If the county's remaining agricultural areas are to survive and prosper, the non-farming public needs to be aware of the continuing financial, cultural, scenic and agricultural contributions made by Warren County.

Methods to expand public outreach efforts in Warren County are through increased signage, events, and opportunities for "on the ground" solicitation of farming operations including pick-your-own operations and local farm stands. Public outreach efforts can also be regionally coordinated. A good example of such regional coordination is a brochure entitled "Enjoy Four Seasons of Agriculture in the New Jersey Skylands". This brochure lists names, addresses, and telephone numbers of farms within the seven counties of Bergen, Hunterdon, Morris, Passaic, Somerset, Sussex and Warren. The brochure is available at www.njskylands.com. As competing uses impact farmers in Warren County, education, outreach and regional coordination will become more and more integral to the success of farming operations.

Management of nuisance and crop damaging wildlife

Management of nuisance and crop damaging wildlife is critical to the short and long term sustainability of Warren County's agriculture industry. Crop damage from wildlife leads to economic loss for the farmer and/or land owner, and is an extremely serious problem in Warren County, causing 75% or more crop loss in certain instances. Most damage is caused by a multitude of insects, as well as deer, bear, turkey, and other wildlife. It is important to not only control and manage damage to crops, but to also do it in a manner which causes the least amount of collateral natural resource damage (i.e. limit pesticide use to the greatest extent possible, using natural pest control). State, county, and local government units must be sensitive to the negative economic impacts caused by crop damage, and support efforts to control it through education, technical and financial assistance, and regulatory flexibility.

One key way for Warren County farmers to control damage from deer, bear, and turkey is through hunting of crop damaging animals. This hunting is allowed through depredation permits, issued by the New Jersey Department of Environmental Protection's (NJDEP) Fish and Wildlife Program. In many instances, this is the only short term solution to control crop damage by what is widely considered an excessive deer population in the County. Warren County farmers continue to work with the NJDEP and NJDA, as well as other counties and municipalities, to implement wildlife control strategies on privately and publicly owned land. (*Agricultural Smart Growth Plan 2006*)

The New Jersey Department of Agriculture's Division of Plant Industry works to safeguard New Jersey's plant resources from injurious insect and disease pests. The Division implements several programs for detection, inspection, eradication and control of insect pests, which helps to ensure that the public can enjoy high quality, pest-free agricultural products. (*Division of Plant Industry*)²⁰ In addition, "the Division oversees programs that certify plant stock for interstate and international shipments, protects forested communities from tree loss caused by the gypsy moth and Asian longhorned beetle, inspects honeybees for harmful bee diseases and pests, regulates the quality of plant seeds, and produces and releases beneficial insects to reduce crop and environmental damage, and decrease dependence on chemical pesticides." (*Division of Plant Industry*) Protection of forest resources is important to Warren County farmers who harvest wood as part of Woodland Management Plans on their farmland assessed properties.

One important example of the Division of Plant Industry's work is in control of the gypsy moth. The gypsy moth is considered the most destructive defoliation forest insect pest in New Jersey. The Division's Gypsy Moth Suppression Program is a voluntary cooperative program involving local governments, county and state agencies, as well as the USDA Forest Service. The Division promotes an integrated pest management approach, which "encourages natural controls to reduce gypsy moth feeding and subsequent tree loss." (*Division of Plant Industry*)²¹ However, aerial spray treatments of *Bacillus thuringiensis*, are utilized when gypsy moth cycles are at a peak and natural controls are not sufficient to control defoliation. (*Division of Plant Industry*) Warren County has not required any aerial spraying in 2007, but may require such in the future.

Agriculture vehicle movement

In recent years, as many portions of the rural New Jersey landscape have become developed with residential subdivisions and shopping malls, the sometimes conflicting lifestyles of farmers and suburban residents clash. Warren County farmers need to move heavy, slow moving agricultural equipment over local, county and sometimes state roads to access unconnected fields and barns. The county's residents also need to commute to workplaces, or drive to area destinations for shopping, town sports and social activities, at a pace much faster than the slow moving agricultural equipment. These different paces can, and do, cause conflict between Warren County's farmers and suburban dwellers, while creating unsafe road conditions as residents and farmers "compete" for road space.

Since many farm vehicles travel over local municipal roads, municipalities should continue to support local agricultural business' right to do so. The SADC model Right to Farm ordinance recognizes as a specific right the operation and transportation of large, slow moving farm equipment over roads. However, of the fourteen Warren County municipalities with Right to Farm Ordinances, only Harmony, Hope, Knowlton, and Pohatcong specifically protect the right to transport tractors and slow moving farm equipment on local roads. The remaining ten towns with Right to Farm Ordinances should consider changing their ordinances to specifically protect the movement of farm equipment on local roads.

Signage alerting fast moving cars as to the possible movement and road crossing of slow moving farm vehicles is an additional, effective tool to protect farmer (and automobile passenger) safety. Signage also informs the public at large that agriculture is an important, equal and permanent fixture of Warren County life. Where absent or inadequate, appropriate signage can be posted. Local Warren County governments may consult with farmers as to what adequate signage is, and where it should be posted.

If local non-agriculture residents are to enjoy the scenic vistas, fresh produce, clean air and limited traffic congestion that Warren County's agriculture provides, they must be more tolerant of the farming community. Local, county and state government can advertise the contributions of the farming community via public outreach at local schools and various community activities. The annual Warren County Fair, held yearly in Harmony Township, is a prime example of advertising the importance and permanence of agriculture in Warren County.

The federal government is an important partner in supporting Warren County agriculture. There are several federal programs that support, or could support, the agricultural industry in Warren County.

USDA Rural Development Program

Known as the Rural Development Program, the United States Department of Agriculture (USDA) has an extensive array of loans and grants to assist residents in rural areas of the country to support essential public facilities and services such as water and sewer systems, housing, health clinics, emergency service facilities, and electric and telephone service. Through the program, the USDA offers technical assistance and information to agricultural cooperatives, as well as to communities for empowerment programs. With a multi-billion dollar portfolio of loans, loan guarantees, and grants, the USDA can be an effective partner to assist with agriculture sustainability. (*Rural Development*)²²

Grants and loans are available in three key areas: Rural Business-Cooperative Service, Rural Housing Service, and Rural Utilities Service. Unfortunately, many of New Jersey's rural municipalities may not qualify for many of the program's loans and grants because most are unavailable to cities with more than 50,000 residents, or municipalities with more than 10,000 residents. While the population criteria for these programs may make sense in

a large portion of the country, they do not make sense for New Jersey. (*Agricultural Smart Growth Plan 2006*)

The New Jersey Department of Agriculture, State Agriculture Development Committee, and Warren County Agriculture Development Board, along with other relevant Warren County agriculture entities, can work with and lobby the USDA to reexamine program criteria to enable New Jersey's rural communities to qualify for more program dollars.

Income Averaging for Farmers

The U.S. Taxpayer Relief Act of 1997, administered by the U.S. Department of Treasury's Internal Revenue Service, is meant to smooth out economic disparities that farmers experience from year to year due to the cyclical nature of agriculture. Known as Farm Income Averaging, qualified farmers can average all or part of their current year farm income over the previous three years. Substantial tax dollars can be saved by income averaging. (*United States Department of the Treasury*)²³

In the New Jersey Legislature, New Jersey Senate Bill 1425 is presently being considered by the Senate Economic Growth Committee, while Assembly Bill 1692 is being considered by the Assembly's Agriculture and Natural Resources, and Appropriations Committees. (*Ben Kurtzman*)²⁴ These bills would provide income averaging similar to the federal program described above. The New Jersey Department of Agriculture, State Agriculture Development Committee, Warren County Freeholders, and Warren County Agriculture Development Board can work with, and encourage, the New Jersey Legislature to adopt income averaging legislation. This would greatly assist Warren County farmers, and farmers statewide, to remain economically viable.

USDA Farm Service Agriculture Program

Farming is a business which can be extremely cyclical and unpredictable, with factors, such as weather and market conditions, out of the farmer's control. As such, farmers often need assistance to make ends meet, to stay profitable, and to stay in business. Many times federal government programs are available, and Warren County farmers can take advantage of these loans as a tool in running their farm business.

The United States Department of Agriculture (USDA), Farm Service Agency (FSA) makes " ... *guaranteed farm ownership and operating loans to (beginning farmers), family-size farmers and ranchers who cannot obtain commercial credit from a bank, Farm Credit System institution, or other lender*", often due to financial setbacks from natural disasters, or whose resources are too limited to maintain profitable farming operations. FSA loans can be used for most agriculture necessities such as purchasing land, livestock, equipment, feed, seed, supplies, and also for construction of buildings, or to make farm improvements. (*Farm Service Agency*)²⁵

The FSA also makes "Direct" farm loans. These loans include supervision and credit counseling for farmers so they have a better chance for success. Under this program, farm

ownership, operating, emergency and youth loans are the main types of loans available, but there are also minority applicant and beginning farmer loans. (*Farm Service Agency*) In Warren County farm loans have been as follows:

- Fiscal year 2007 had three loans, with an average loan of \$300,000. They were used to buy farms and livestock, and to refinance debt.
- Fiscal year 2006 had four loans, with an average loan of \$140,000. They were used to buy equipment and cows, and to refinance operating debt.
- Fiscal year 2005 had seven loans, with an average loan of \$120,000. They were used to buy cows and equipment, and to refinance debt.

(*Virginia Brophy, Farm Service Agency*)²⁶

The FSA office for Warren County is located at 101 Bilby Road, Suite 1H in Hackettstown, at the same location as the NRCS office discussed in Chapter 7. The County Executive Agent is Ken Bingham, and he may be reached at (908) 852-2576, ext. 109, or at Kenneth.Bingham@nj.usda.gov for assistance. This FSA office also administers the financial aspect of the CREP program, which was discussed in *Chapter 7*.

Warren County's Vision for Farmland Preservation

The Mission Statement of the Warren CADB:

Our mission is told in our title, "Agriculture Development Board." We are dedicated to the preservation of farmland, farms, and farmers. To that end the CADB will actively seek to expand our base of preserved farms and provide support to our farming community.

The Goals of the Warren CADB:

Warren County has 814 farms and almost 80,000 acres of land in farming. As of June 2007, over 150 of those farms and over 15,000 acres are in farmland preservation. While this represents a significant achievement, it is the goal of the CADB, working with municipalities and the State Agriculture Development Committee to increase preserved acreage to over 20,000 by 2010.

The CADB will continue to support and develop programs to encourage economically successful farming.

The Mission and Goals Statement of the Warren CADB were approved and adopted at their August 2007 CADB meeting.

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- ¹ New Jersey Department of Agriculture. New Jersey State Agriculture Development Committee (SADC). "Right to Farm Program." <http://www.state.nj.us/agriculture/sadc/rtfprogram.htm>. Accessed March 11, 2007.
- ² New Jersey's Great Northwest Skylands, Farmland Preservation. <http://www.njskylands.com/fmpres.htm>. Accessed May 28, 2007.
- ³ New Jersey Department of Agriculture, State Agriculture Development Committee, Right to Farm (RTF) Program: Eligibility Criteria for RTF Act Protection <http://www.state.nj.us/agriculture/sadc/rtfcriteria.htm>. Accessed March 25, 2007.
- ⁴ New Jersey Department of Agriculture, State Agriculture Development Committee, Right to Farm Program: Resolving Agricultural-Related Conflicts <http://www.state.nj.us/agriculture/sadc/rtfconflictres.htm>. Accessed March 25, 2007.
- ⁵ New Jersey Department of Agriculture, State Agriculture Development Committee, Model Right to Farm Ordinance <http://www.state.nj.us/agriculture/sadc/modelrtfordinance.pdf>. Accessed March 27, 2007.
- ⁶ New Jersey Department of Agriculture, New Jersey's Farmland Assessment Act, An Informational Guide on Basic Requirements. July 2006.
- ⁷ New Jersey Department of Agriculture, State Agriculture Development Committee, Warren County Agricultural Profile, April 13, 2007.
- ⁸ New Jersey Department of Agriculture, Agricultural Smart Growth Plan 2006. <http://www.state.nj.us/agriculture/pdf/smartgrowthplan.pdf>. Accessed March 27, 2007.
- ⁹ Personal communication with Kent Hardmeyer, United States Department of Agriculture, Natural Resources Conservation Service. May 15, 2007.
- ¹⁰ Personal communication with Bob Resker, County of Warren, Land Preservation office. May 9, 2007.
- ¹¹ United States Census of Agriculture, 1987, 1992, 1997, Ag Census. [http://agcensus.mannlib.cornell.edu/county.php?st\[\]=34&imgmap=agri_state](http://agcensus.mannlib.cornell.edu/county.php?st[]=34&imgmap=agri_state). Accessed May 26, 2007.
- ¹² Report of the Agriculture Transition Policy Group, Final Report, January 10, 2006. <http://www.state.nj.us/governor/home/pdf/agriculture.pdf>. Accessed March 11, 2007.
- ¹³ New Jersey Department of Agriculture, Economic Development Strategies, January 2007.
- ¹⁴ New Jersey Department of Agriculture, Training. <http://www.state.nj.us/agriculture/grants/training.html>. Accessed April 4, 2007.
- ¹⁵ Personal communication with Bill Tietjen, Rutgers Cooperative Extension of Warren County, May 30, 2007.
- ¹⁶ Personal Communication with Lisa Summins, Academic Dean, Warren County Community College. June 5, 2007.
- ¹⁷ National FFA Organization, Agricultural Science Education. <http://www.ffa.org/>. Accessed May 27, 2007.

-
- ¹⁸ New Jersey Department of Agriculture, Office of Agriculture, Food and Natural Resource Education, 2006-2007 Directory of New Jersey Agriculture, Food & Natural Resources Education Programs and Related Organizations, <http://www.jerseyageducation.nj.gov/0607dir.pdf>. Accessed May 27, 2007.
- ¹⁹ New Jersey Department of Agriculture, Agricultural Education. <http://www.jerseyageducation.nj.gov/>. Accessed April 1, 2007.
- ²⁰ New Jersey Department of Agriculture, Division of Plant Industry, Programs. <http://www.state.nj.us/agriculture/divisions/pi/prog/>. Accessed April 1, 2007.
- ²¹ New Jersey Department of Agriculture, Division of Plant Industry, Gypsy Moth Suppression. <http://www.nj.gov/agriculture/divisions/pi/prog/gypsymoth.html>. Accessed April 1, 2007.
- ²² United States Department of Agriculture, Rural Development, About Us. <http://www.rurdev.usda.gov/rd/index.html>. Accessed April 3, 2007.
- ²³ United States Department of the Treasury, Internal Revenue Service, Farmers May Harvest Lower Taxes by Averaging Income. <http://www.irs.gov/businesses/small/article/0,,id=123985,00.html>. Accessed April 3, 2007.
- ²⁴ American Farmland Trust, Ben Kurtzman, Legislative Specialist. e-mail communication. April 4, 2007.
- ²⁵ United States Department of Agriculture, Farm Service Agency, Farm Loan Programs, Background. <http://www.fsa.usda.gov/FSA/webapp?area=home&subject=fmlp&topic=landing>. Accessed April 3, 2007.
- ²⁶ Personal Communication with Virginia Brophy, United States Department of Agriculture, Farm Service Agency. July 31, 2007.

Literature Cited

- AG Choice, LLC. <http://www.ag-choice.com/index.html>. Accessed June 24, 2007.
- Agricultural Marketing Resource Center, Mission and Goals.
<http://www.agmrc.org/agmrc/About+mission++goals.htm>. Accessed May 20, 2007.
- Agriculture Transition Policy Group, Final Report, January 10, 2006.
<http://www.state.nj.us/governor/home/pdf/agriculture.pdf>. Accessed March 11, 2007.
- Alba Vineyard, <http://www.albavineyard.com/>. Accessed September, 16, 2007
- American Farmland Trust, The Farm, Nutrition and Community Investment Act.
http://www.farmland.org/programs/states/me/documents/AFT_FNCIA_S-D-G_Northeast_WebApr07.pdf. Accessed June 9, 2007.
- Buy Fresh, Buy Local. <http://www.buyfreshnwj.org/WebPages/OurCampaign.htm>.
Accessed June 30, 2007.
- The Daily Record, Hackettstown: A Day in the Life - April 16, 2002.
<http://www.dailyrecord.com/news/dayinthelife/hackettstown/bidders.htm>. Accessed July 8, 2007.
- Food Shed Alliance.
<http://www.foodshedalliance.org/Foodshed%20WebPages/Foodshed%20Pages/whatwewereabout.htm>. Accessed June 30, 2007.
- Four Sisters Winery at Matarazzo Farms. <http://foursisterswinery.com/>. Accessed July 8, 2007.
- Highlands Sustainable Agriculture Technical Report. January 2007.
- Lathrop, R. Land Use / Land Cover Update to Year 2000/2001. Center for Remote Sensing and Spatial Analysis – Cook College, Rutgers University. 2004.
- National FFA Organization, Agricultural Science Education. <http://www.ffa.org/>. Accessed May 27, 2007.
- New Jersey Agricultural Experiment Station, Rutgers Cooperative Research & Extension of Warren County. <http://njaes.rutgers.edu/county/quickinfo.asp?Warren>. Accessed April 15, 2007.
- New Jersey Christmas Tree Growers Association, 2006 Choose & Cut Christmas Tree Guide, <http://www.njchristmastrees.org/>. Accessed May 28, 2007.

- New Jersey Department of Agriculture, Agricultural Development Services.
<http://www.state.nj.us/agriculture/divisions/md/prog/agriculturaleconomic.html#top>. Accessed July 8, 2007.
- New Jersey Department of Agriculture, Agricultural Education.
<http://www.jerseyageducation.nj.gov/>. Accessed April 1, 2007.
- New Jersey Department of Agriculture, Agriculture and Green Energy.
<http://www.state.nj.us/agriculture/news/hottopics/topics060222.html>. Accessed April 2, 2007.
- New Jersey Department of Agriculture, Agricultural and Natural Resources.
<http://www.state.nj.us/agriculture/divisions/anr/>. Accessed April 10, 2007.
- New Jersey Department of Agriculture, Agricultural Smart Growth Plan 2006.
<http://www.state.nj.us/agriculture/pdf/smartgrowthplan.pdf>. Accessed March 27, 2007; April 9, 2007.
- New Jersey Department of Agriculture. Agricultural Smart Growth Tool Kit “Planning for Agriculture”. *<http://www.state.nj.us/agriculture/toolkit.htm>*. Accessed June 2006.
- New Jersey Department of Agriculture, Division of Plant Industry, Gypsy Moth Suppression. *<http://www.nj.gov/agriculture/divisions/pi/prog/gypsymoth.html>*. Accessed April 1, 2007
- New Jersey Department of Agriculture, Division of Plant Industry, Programs.
<http://www.state.nj.us/agriculture/divisions/pi/prog/>. Accessed April 1, 2007.
- New Jersey Department of Agriculture, Economic Development Strategies. January 2007.
- New Jersey Department of Agriculture. “New Jersey Agriculture 2006 Annual Report.”
www.state.nj.us/agriculture/pdf/06AnnualReport.pdf
- New Jersey Department of Agriculture, New Jersey Equine Advisory Board. “Directory of Equine Facilities.” 2006
- New Jersey Department of Agriculture, New Jersey’s Farmland Assessment Act, An Informational Guide on Basic Requirements. July 2006.
- New Jersey Department of Agriculture, Office of Agriculture, Food and Natural Resource Education, 2006-2007 Directory of New Jersey Agriculture, Food & Natural Resources Education Programs and Related Organizations,
<http://www.jerseyageducation.nj.gov/0607dir.pdf>. Accessed May 27, 2007.

- New Jersey Department of Agriculture, Roadside Markets, Pick Your Own Farms and Community Farmers Markets,
<http://www.state.nj.us/jerseyfresh/searches/index.html>. Accessed May 28, 2007.
- New Jersey Department of Agriculture, Soil and Water Conservation Grants.
<http://www.state.nj.us/agriculture/grants/soil.html>. Accessed April 14, 2007.
- New Jersey Department of Agriculture, State Agriculture Development Committee, Agriculture Census Data, Warren County Agricultural Profile. April 13, 2007.
- New Jersey Department of Agriculture. New Jersey State Agriculture Development Committee (SADC). "Right to Farm Program."
<http://www.state.nj.us/agriculture/sadc/rtfprogram.htm>. Accessed March 11, 2007.
- New Jersey Department of Agriculture, State Agriculture Development Committee. Model Right to Farm Ordinance
<http://www.state.nj.us/agriculture/sadc/modelrtfordinance.pdf>. Accessed March 27, 2007.
- New Jersey Department of Agriculture, State Agriculture Development Committee, Right to Farm (RTF) Program: Eligibility Criteria for RTF Act Protection
<http://www.state.nj.us/agriculture/sadc/rtfcriteria.htm>. Accessed March 25, 2007.
- New Jersey Department of Agriculture, State Agriculture Development Committee, Right to Farm Program: Resolving Agricultural-Related Conflicts
<http://www.state.nj.us/agriculture/sadc/rtfconflictres.htm>. Accessed March 25, 2007.
- New Jersey Department of Agriculture, State Agriculture Development Committee, Warren County Agricultural Profile, April 13, 2007.
- New Jersey Department of Agriculture. State Agriculture Development Committee.
Warren County Farmland Assessment 2004.
- New Jersey Department of Agriculture, Sustainable Agriculture Research and Education (SARE). <http://www.state.nj.us/agriculture/grants/sare.html>. Accessed May 20, 2007.
- New Jersey Department of Agriculture, Training.
<http://www.state.nj.us/agriculture/grants/training.html>. Accessed April 4, 2007
- New Jersey Department of Environmental Protection, Division of Parks and Forestry, Private Lands Management Program.
http://www.nj.gov/dep/parksandforests/forest/njfs_private_lands_mgt.html. Accessed April 13, 2007.

- New Jersey Department of Environmental Protection, New Jersey Discharger, Volume 11, No. 2, Fall 2003. New Storm water General Permit for Concentrated Animal Feeding Operations. <http://www.state.nj.us/dep/dwq/discharg/v11n2h.htm>. Accessed April 17, 2007.
- New Jersey Department of Treasury, Division of Taxation. Farmland Assessment Act of 1964, Chapter 48, Laws of 1964, Revised, Thirty Eighth Report Of Data From FA-1 Forms For 2006 Tax Year. December 2006.
- New Jersey Farm Bureau, <http://www.njfb.org/>. Accessed September 16, 2007.
- New Jersey Farmland Assessment 2004, Tax Year 2005 – County Summary, County=Warren.
- New Jersey’s Great Northwest Skylands, Farmland Preservation. <http://www.njskylands.com/fmpres.htm>. Accessed May 28, 2007.
- New Jersey Highlands Council. Draft Highlands Regional Master Plan. November 2006.
- New Jersey Office National Agriculture Statistics Service. http://www.nass.usda.gov/Statistics_by_State/New_Jersey/index.asp. Accessed June 1, 2007.
- New Jersey State Planning Commission. New Jersey State Development and Redevelopment Plan. March 2001.
- New Jersey Statutes Annotated 40:55D: Municipal Land Use Law.
- North Jersey Resource Conservation and Development Council. <http://www.northjerseyrcd.org/>. Accessed November 5, 2007.
- Northeast Sustainable Agriculture Research and Education. http://www.uvm.edu/~nesare/what_is.html. Accessed July 8, 2007.
- Star Ledger. Ethanol Plant proposed in Warren County. December 11, 2007.
- United States Census of Agriculture, 1987, 1992, 1997, Ag Census. [http://agcensus.mannlib.cornell.edu/county.php?st\[\]=34&imgmap=agri_state](http://agcensus.mannlib.cornell.edu/county.php?st[]=34&imgmap=agri_state). Accessed May 26, 2007.
- United States Census Bureau. American Factfinder – Warren County, New Jersey. www.factfinder.census.gov . Accessed 05 July 2007.
- United States Department of Agriculture, Conservation Programs Offered In New Jersey, Programs Available in 2006. <ftp://ftp->

fc.sc.egov.usda.gov/NJ/programs/Conservation_Programs_Offered_in_New_Jersey.pdf. Accessed April 13, 2007.

United States Department of Agriculture, Fact Sheet, USDA'S 2007 Farm Bill Proposals. http://www.usda.gov/wps/portal/!ut/p/_s.7_0_A/7_0_1UH?contentidonly=true&contentid=2007/01/0019.xml. Accessed April 14, 2007.

United States Department of Agriculture, Farm Service Agency, Farm Loan Programs, Background. <http://www.fsa.usda.gov/FSA/webapp?area=home&subject=fmlp&topic=landing> Accessed April 3, 2007

United States Department of Agriculture, National Agricultural Library, Alternative Farming Systems Information Center, Community Supported Agriculture. <http://www.nal.usda.gov/afsic/pubs/csa/csa.shtml>. Accessed June 30, 2007.

United States Department of Agriculture: National Agricultural Statistic Service, 2002 Census of Agriculture. http://www.nass.usda.gov/Census_of_Agriculture/index.asp. Accessed June 2007.

United States Department of Agriculture, Natural Resources Conservation Service, Information For Farmers. <http://www.nj.nrcs.usda.gov/farmers.html>. Accessed April 9, 2007.

United States Department of Agriculture, Natural Resources Conservation Service, New Jersey. <http://www.nj.nrcs.usda.gov/>. Accessed March 26, 2007.

United States Department of Agriculture, New Jersey Natural Resources Conservation Service Conservation Programs. <http://www.nj.nrcs.usda.gov/programs/>. Accessed April 9, 2007.

United States Department of Agriculture, Rural Development, About Us. <http://www.rurdev.usda.gov/rd/index.html>. Accessed April 3, 2007.

United States Department of Agriculture: Soil Conservation Service. *Soil Survey of Warren County, New Jersey*. April 1979.

United States Department of the Treasury, Internal Revenue Service, Farmers May Harvest Lower Taxes by Averaging Income. <http://www.irs.gov/businesses/small/article/0,,id=123985,00.html>. Accessed April 3, 2007.

Warren County Agriculture Development Board, Long Range Plan. 1998.

Warren County Environmental Commission. Aquifers of Warren County, Robert Canace, Acting Section Chief, Bureau of Groundwater Resources Evaluation, New Jersey

- Geological Survey. <http://76.162.120.189/enviro/aquifers.html>. Accessed September 18, 2007.
- Warren County Farmer's Fair. <http://www.warrencountyfarmersfair.org/>. Accessed July 8, 2007.
- Warren County Planning Department. *1999 Warren County Open Space Plan*.
- Warren County Planning Department. Warren County Strategic Growth Plan. October 2005. http://www.co.warren.nj.us/planning/county_strategic_growth_plan.html. Accessed April 15, 2007.
- Warren County Tax Assessors Office. Crop Data by Warren County Municipality for 2007 Tax Year
- Washington Borough Business Improvement District. <http://www.washingtonbid.org/>. Accessed July 8, 2007.
- Workforce New Jersey Public Information Network. Labor Market Information Website: <http://www.wnjpin.net/OneStopCareerCenter/LaborMarketInformation/lmi01/poptrd6.htm>. Accessed 05 July 2007.
- Personal Communication:***
- Jim Baird, Mid-Atlantic Region Director, American Farmland Trust. June 26, 2007.
- Jim Barresi, Assistant Director, New Jersey Department of Environmental Protection, Division of Parks and Forestry. June 12, 2007.
- Ken Bingham, United States Department of Agriculture, Farm Service Agency. June 11, 2007.
- Virginia Brophy, United States Department of Agriculture, Farm Service Agency. July 31, 2007.
- Steve Bruder, SADC. August 23, 2007.
- Everett Chamberlain, Rutgers Cooperative Research and Extension of Warren County. June 20, 2007.
- David Dech, Warren County Planning Director. October 12, 2007.
- Tim Dunne, United States Department of Agriculture, Natural Resources Conservation Service. June 25, 2007.
- Peter Furey, New Jersey Farm Bureau. June 18, 2007.

Paul Glietz. Copy of e-mail provided by Bob Resker on May 9, 2007.

Jim Haase, New Jersey Department of Environmental Protection, New Jersey Forest Service. July 20, 2007.

Kent Hardmeyer, United States Department of Agriculture, Natural Resources Conservation Service. May 15, 2007.

Kent Hardmeyer and/or Ron Phelps, United States Department of Agriculture, Natural Resources Conservation Service, May 15 and 16, 2007. June 6, 2007.

Steve Komar, Rutgers Cooperative Research & Extension of Sussex County. May 30, 2007.

Kim Korth, New Jersey Department of Environmental Protection, Non-game Endangered Species Program. July 24, 2007.

Ben Kurtzman, Legislative Specialist, American Farmland Trust. e-mail communication. April 4, 2007.

Jennifer Morrill, Director of Media Relations, American Farmland Trust. October 29, 2007.

John Parke, New Jersey Audubon Society. September, 7, 2007.

Monique Purcell, New Jersey Department of Agriculture, Division of Agriculture and Natural Resources. April 18, 2007.

Janice Reid, Assistant State Conservationist, United States Department of Agriculture, Natural Resources Conservation Service. June 26, 2007.

Bob Resker, Warren County Land Preservation Office. May 9, 2007.

Dave Schaaf, District Manager, Warren County Soil Conservation District. June 13, 2007.

Lisa Summins, Academic Dean, Warren County Community College. June 5, 2007.

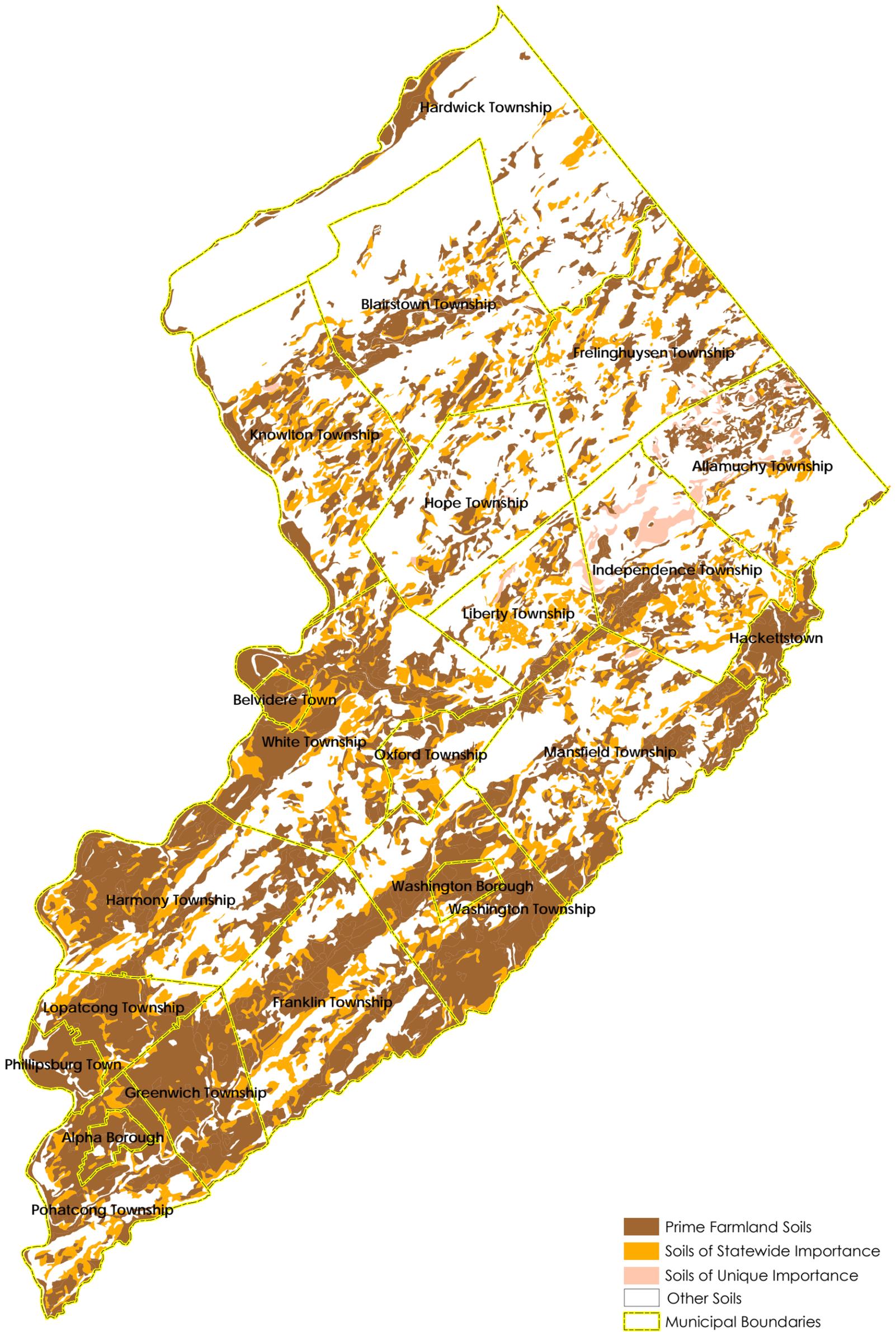
Bill Tietjen, Rutgers Cooperative Research and Extension of Warren County. May 30, 2007.

MAPS

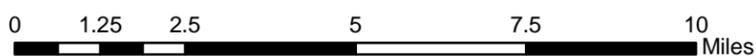
- a. Agricultural Soils Categories
- b. Farmland Map
- c. Agricultural Development Area
- d. Project Areas
- e. Farm Parcels that meet SADC Criteria for Agricultural Soils
- f. Farm Parcels that meet SADC Criteria for Tillable Land
- g. Farm Parcels that meet SADC Criteria for both Tillable Land and Soils

Agricultural Soil Categories

Warren County, New Jersey



- Prime Farmland Soils
- Soils of Statewide Importance
- Soils of Unique Importance
- Other Soils
- Municipal Boundaries

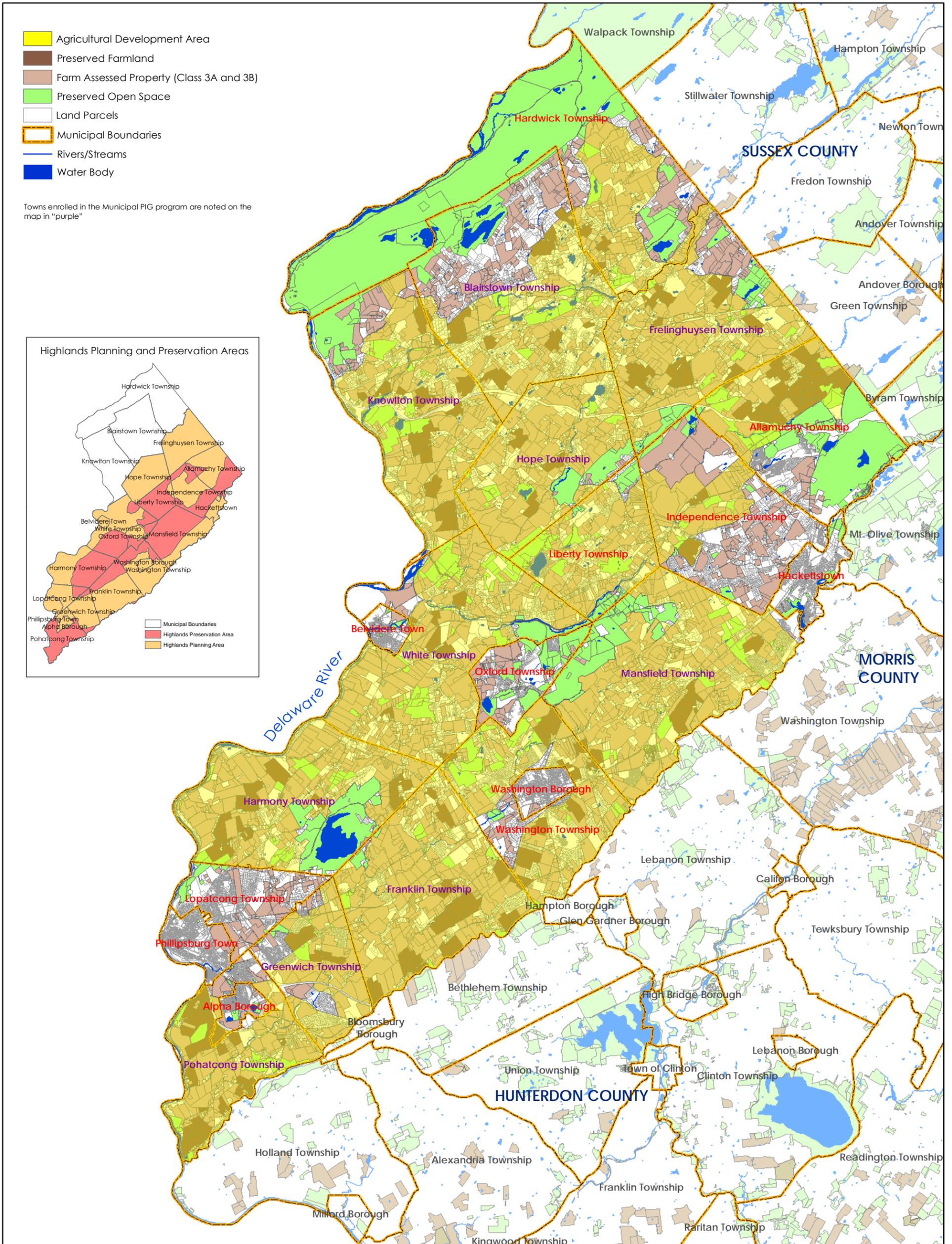
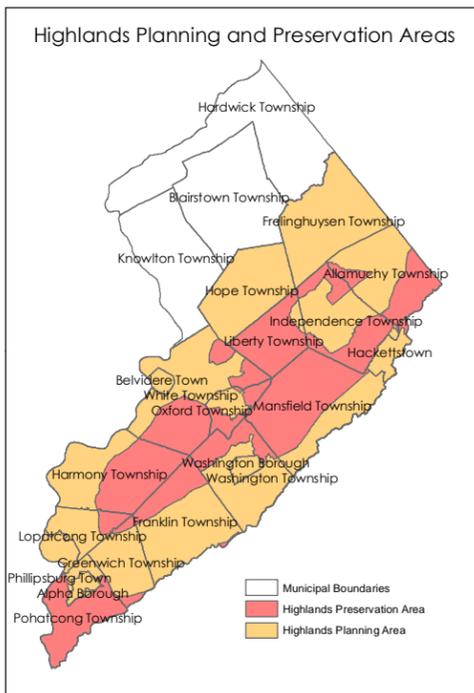


Agricultural Development Area

Warren County, New Jersey

- Agricultural Development Area
- Preserved Farmland
- Farm Assessed Property (Class 3A and 3B)
- Preserved Open Space
- Land Parcels
- Municipal Boundaries
- Rivers/Streams
- Water Body

Towns enrolled in the Municipal PIG program are noted on the map in "purple"

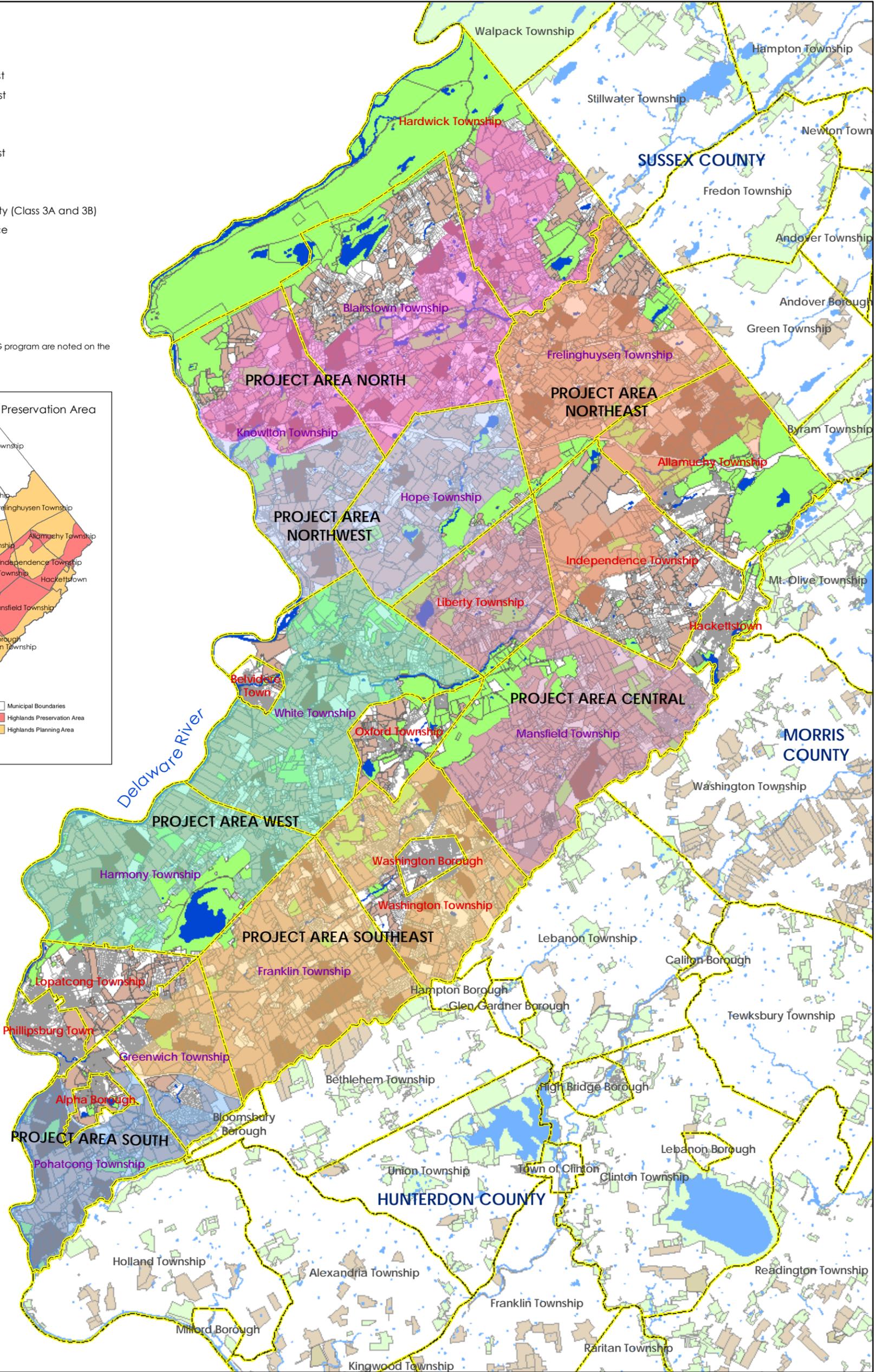
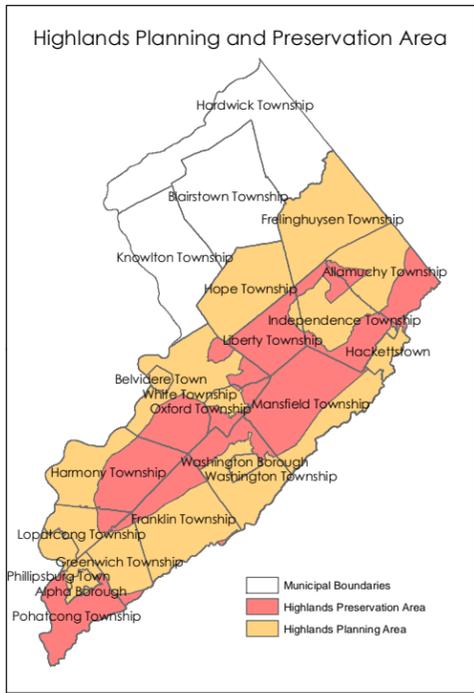


Project Areas

Warren County, New Jersey

- Project Area North
- Project Area Northeast
- Project Area Northwest
- Project Area West
- Project Area Central
- Project Area Southeast
- Project Area South
- Preserved Farmland
- Farm Assessed Property (Class 3A and 3B)
- Preserved Open Space
- Land Parcels
- Municipal Boundaries
- Rivers/Streams
- Water Body

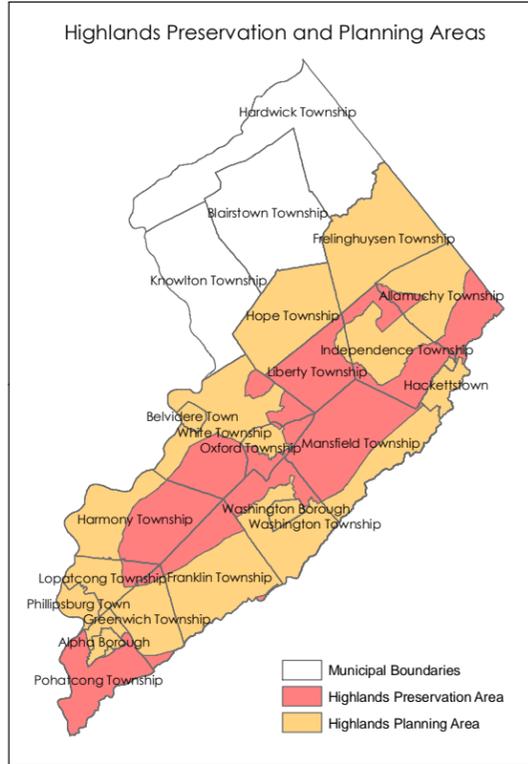
Towns enrolled in the Municipal PIG program are noted on the map in "purple"



Farm Parcels that meet SADC Criteria for Tillable Land

Warren County, New Jersey

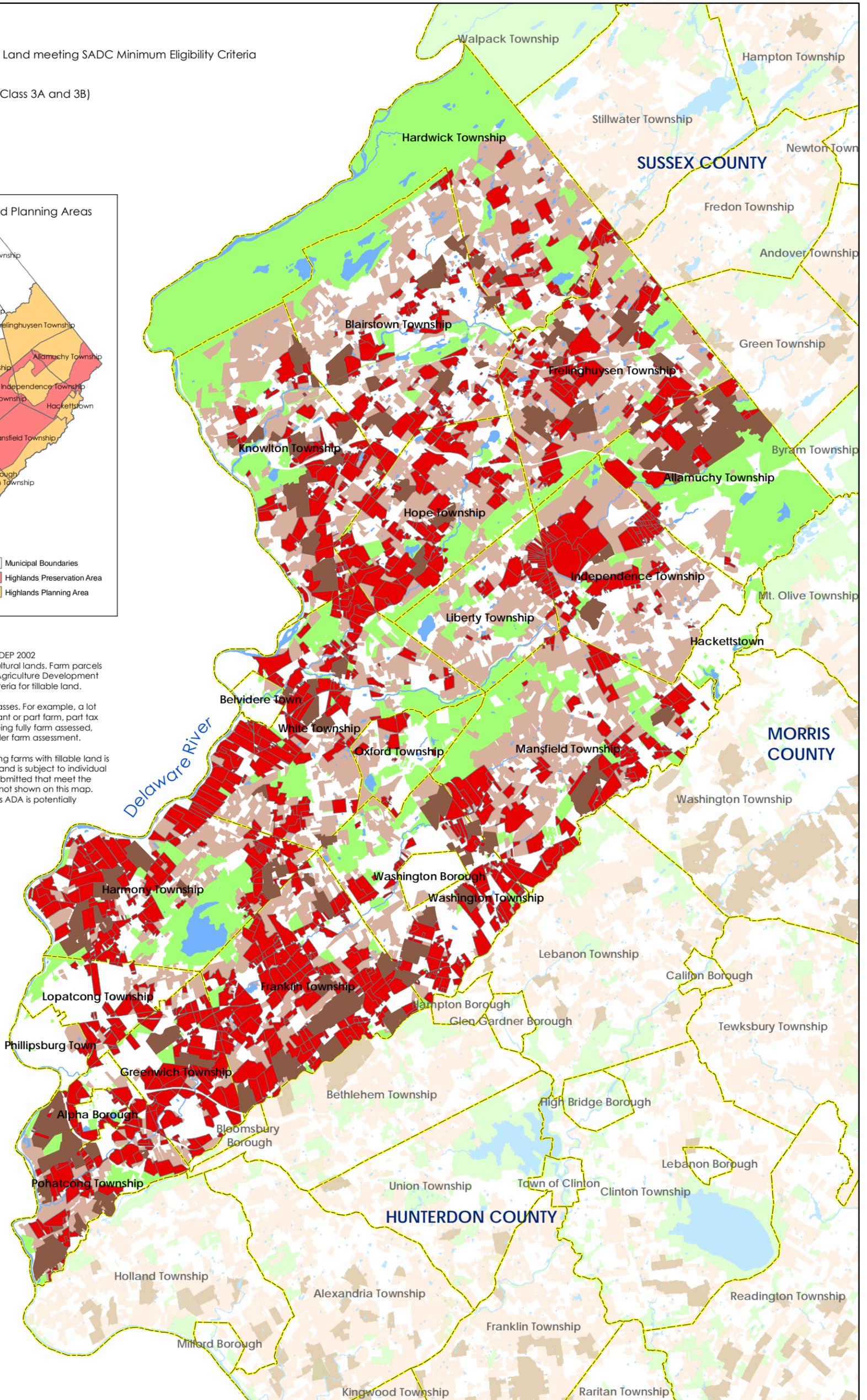
- Farm Parcels with Tillable Land meeting SADC Minimum Eligibility Criteria
- Preserved Farmland
- Farm Assessed Property (Class 3A and 3B)
- Preserved Open Space
- Municipal Boundaries
- Rivers/Streams
- Water Body



Tillable acreage determined using the NJDEP 2002 Land Use/Land Cover mapping for agricultural lands. Farm parcels are sorted on size based upon the State Agriculture Development Committee (SADC) Minimum Eligibility Criteria for tillable land.

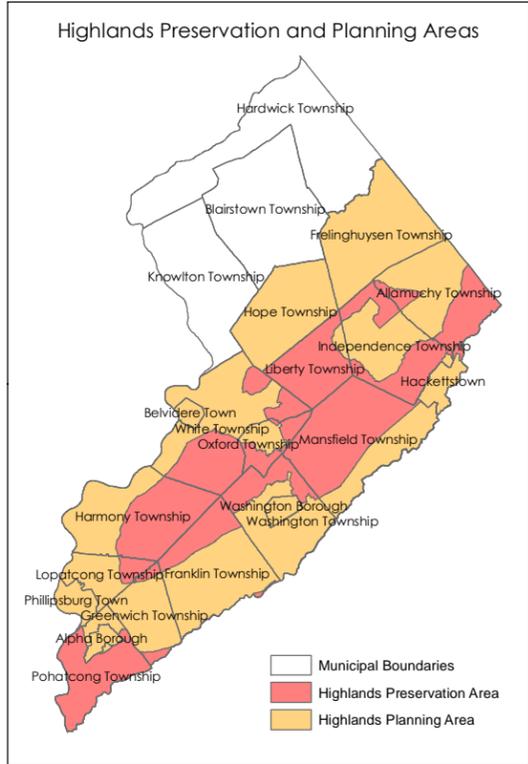
Some farm assessed lots have dual tax classes. For example, a lot might be assessed as part farm, part vacant or part farm, part tax exempt. Although all lots are shown as being fully farm assessed, some may have only partial acreage under farm assessment.

Information on this Map and Plan regarding farms with tillable land is a representation of the GIS data analysis and is subject to individual site review. Farm applications may be submitted that meet the SADC Minimum Eligibility Criteria that are not shown on this map. Any property included within the County's ADA is potentially eligible for preservation.



Farm Parcels that meet SADC Criteria for both Tillable Land and Soils Warren County, New Jersey

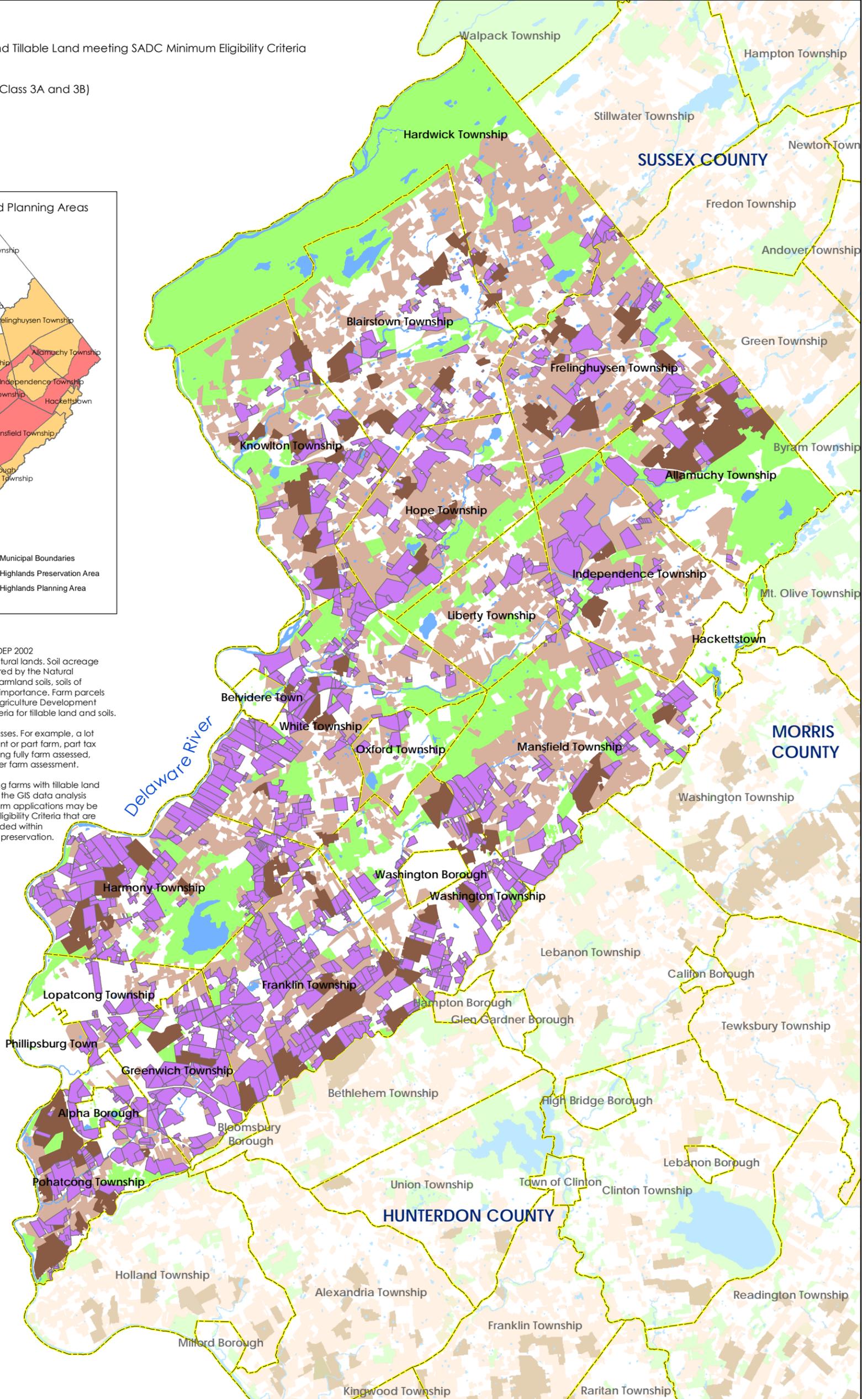
- Farm Parcels with Soils and Tillable Land meeting SADC Minimum Eligibility Criteria
- Preserved Farmland
- Farm Assessed Property (Class 3A and 3B)
- Preserved Open Space
- Municipal Boundaries
- Rivers/Streams
- Water Body



Tillable acreage determined using the NJDEP 2002 Land Use/Land Cover mapping for agricultural lands. Soil acreage determined using the Soil Survey as prepared by the Natural Resource Conservation Service for prime farmland soils, soils of statewide importance and soils of unique importance. Farm parcels are sorted on size based upon the State Agriculture Development Committee (SADC) Minimum Eligibility Criteria for tillable land and soils.

Some farm assessed lots have dual tax classes. For example, a lot might be assessed as part farm, part vacant or part farm, part tax exempt. Although all lots are shown as being fully farm assessed, some may have only partial acreage under farm assessment.

Information on this Map and Plan regarding farms with tillable land and agricultural soils is a representation of the GIS data analysis and is subject to individual site review. Farm applications may be submitted that meet the SADC Minimum Eligibility Criteria that are not shown on this map. Any property included within the County's ADA is potentially eligible for preservation.



APPENDICES

- a. Public Hearing #1 – April 19, 2007 – Invitation and Agenda
- b. Public Hearing #2 – June 21, 2007 – Invitation, Agenda
- c. Public Hearing #3 – October 18, 2007 – Notice, Agenda
- d. Warren County FY09 Minimum Score Report
- e. Warren County Ranking Criteria
- f. Directory of Warren County Farm Markets and Farm Stands, Tree Farms
- g. Equine Facilities in Warren County
- h. SADC Model Right-to-Farm Ordinance
- i. SADC Deed of Easement
- j. Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land
- k. Farmland Property Value Analysis

April 1, 2007

The Warren County Agriculture Development Board (CADB) invites you to a meeting of municipal agricultural representatives and farmland owners to discuss the Farmland Preservation Plan for Warren County. The County is in the process of writing their Farmland Plan and looks to you for guidance and direction for the future of agriculture and agricultural preservation in the County.

While developing the Farmland Plan the CADB will be seeking information from municipal officials and farmers concerning agriculture and farmland preservation. This may include land use trends, planning and zoning issues, right-to-farm ordinances, and effectiveness of the farmland preservation program. The CADB wants the plan to complement existing programs and meet the preservation needs of the municipalities.

As part of this effort we are hosting a public meeting on **Thursday, April 19th**. The meeting will be held in the Meeting Room at the Warren County Department of Land Preservation, 500 Mt. Pisgah Avenue in Oxford, beginning at **7:00 p.m.** We look to you, or your representative, to attend this meeting and help us coordinate our planning initiatives.

Please respond to Bob Resker, Warren County Department of Land Preservation at (908) 453-3252 and let him know who will be attending this meeting with the CADB. Thank you for your assistance and we look forward to working with you on the Comprehensive Farmland Plan.

Sincerely,

Joel Schnetzer
Chairman
Warren County Agriculture Development Board

County of Warren

Farmland Preservation Plan

Public Meeting:

A Vision for Farmland Preservation in Warren County

Meeting Room
Warren County Department of Land Preservation
500 Mt. Pisgah Avenue, Oxford

Thursday, April 19, 2007
7:00 pm

Hosted by Warren County Board of Chosen Freeholders, and
the Warren County Agriculture Development Board

AGENDA

7:00 Flag Salute
Welcome and Introductions
Joel Schnetzer, Warren County Agricultural Development Board

The Farmland Preservation Plan:
What is it and why is Warren County doing it?
Barbara Heskins Davis, Morris Land Conservancy

7:15 The Farmland Preservation Program in Warren County:
A Conversation
Barbara Heskins Davis, Morris Land Conservancy

8:30 Concluding Remarks
Joel Schnetzer, County Agricultural Development Board

Why draft a Farmland Preservation Plan?

The primary purpose of developing a Farmland Preservation Plan for Warren County is to provide a vision and strategy for the preservation of our agricultural resources. This Plan will prioritize farmland for preservation based upon input from local farmland owners, residents, municipal officials, county board and committees. The Plan will conform to the updated State Agriculture Development Committee (SADC) guidelines and can be used by Warren County to apply for a Planning Incentive Grant from the SADC. The Plan is a requirement for eligibility into this Program.

The Farmland Preservation Plan will result in the protection of farmland and will include an action plan to preserve agricultural resources within the County. The Plan will recommend a systematic program of farmland preservation that will result in an efficient use of County funds and will promote partnerships with other governmental and private agencies, to protect existing regional assets. The Plan will result in the preservation of the health and integrity of existing agricultural resources and the protection of the industry of agriculture in Warren County.

Anticipated Timeline:

April 19 2007: Public Meetings #1 – Farmland Owners and Residents

June 21, 2007: Public Meeting #2: Focus on Municipal Officials

July 19, 2007: Draft Farmland Preservation Plan delivered to County

September 20, 2007: Draft Farmland Preservation Plan released to the public

October 18, 2007: *Public Meeting #3: Public Comments on the Draft Plan*

November 15, 2007: Final Farmland Preservation Plan delivered to County

December 15, 2007: SADC deadline for submittal of County Plan

For further information please contact:



Morris Land Conservancy
19 Boonton Avenue
Boonton, NJ 07005
(973) 541-1010
Fax (973) 541-1131
www.morrislandconservancy.org

Warren County
Department of Land Preservation
500 Mt. Pisgah Avenue
Oxford, NJ
(908) 453-3252

To be addressed to: Clerk/Administrator
Mayor and members of governing body
Planning Board Chair
Agriculture Advisory Committee Chair

June 1, 2007

You are cordially invited to a meeting of Warren County municipal leaders. Your participation and vision for Warren County's farmland preservation program are needed for the development of the County's Farmland Preservation Plan.

The purpose of this meeting is to gather municipal leaders together with representatives of the Warren County Agriculture Development Board so that we may better understand your views on farmland preservation in Warren County. At this meeting please share with us the areas of special interest in your community. Your comments and thoughts on the prioritization of various initiatives will also be appreciated. Additionally, we will plan to review the farmland mapping we have produced for the County thus far. Please bring along any maps, materials, or photographs that you feel may be relevant to this discussion. Your support and participation will be noted in the final draft of the Warren County Farmland Preservation Plan.

The meeting will be held on **Thursday, June 21st** at the Department of Land Preservation office at the end of Mt. Pisgah Road in Oxford, and will begin at **7:00 p.m.** Please call or email Barbara Heskins Davis at Morris Land Conservancy (bhdavis@morrislandconservancy.org), (973) 541-1010, or Bob Resker at the Warren County Department of Land Preservation (908-453-3252) with any questions. We have enclosed a meeting agenda and directions for your information. If you cannot attend, please send a representative of the municipality, such as municipal staff and agriculture advisory committee members, to represent your views.

We would like to learn more about your community's plans and ongoing efforts to protect land in Warren County; we hope that you will share with us your vision and your expertise. The Plan must represent the views of the people of Warren County and can only be developed with the input of all who participate in land conservation in the County.

It is our hope that the Warren County Farmland Preservation Plan will serve as a catalyst for communities interested in actively pursuing farmland preservation. We are excited about this opportunity and expect that a number of important preservation initiatives will be identified as a result of this effort.

The participation of local leaders is a key element in producing a comprehensive Farmland Plan that reflects County interests and will successfully guide the County of Warren in their land preservation efforts. We hope you will come and share your knowledge and enthusiasm.

Sincerely,

Warren County Board of Chosen Freeholders

Warren County Agriculture Development Board

County of Warren

Farmland Preservation Plan Public Meeting: Farmland Preservation in Warren County

Meeting Room
Warren County Department of Land Preservation
500 Mt. Pisgah Avenue, Oxford

Thursday, June 21, 2007
7:00 pm

Hosted by Warren County Board of Chosen Freeholders, and
the Warren County Agriculture Development Board

AGENDA

- 7:00 Flag Salute
Welcome and Introductions
Joel Schnetzer, Warren County Agricultural Development Board
- 7:10 Review of the Farmland Program – The Municipal Perspective
Moderator: Barbara Heskins Davis, Morris Land Conservancy
- ✓ Review of the County Farmland Planning Process
 - ✓ Review of the Proposed Project Areas
 - ✓ Issues and Needs Discussion
 - ✓ What does your community need to accomplish this vision?
 - ✓ What does your community need to accelerate its efforts?
 - ✓ How can the County help the community address those needs?
 - ✓ Wrap up: What do you want the Plan to include that has not been discussed?
- 8:30 Concluding Remarks
Joel Schnetzer, County Agricultural Development Board

Why draft a Farmland Preservation Plan?

The primary purpose of developing a Farmland Preservation Plan for Warren County is to provide a vision and strategy for the preservation of our agricultural resources. This Plan will prioritize farmland for preservation based upon input local farmland owners, residents, municipal officials, county board and committees. The Plan will conform to the updated State Agriculture Development Committee (SADC) guidelines and can be used by Warren County to apply for a Planning Incentive Grant from the SADC. The Plan is a requirement for eligibility into this Program.

What are some of the numbers?

Total County Land:	229,035 acres
Preserved Farmland:	13,826 acres
Farms in the 8-Year program:	1,126 acres
Total Assessed Farmland:	113,196 acres
Preserved Open Space:	53,228 acres
Land in Farms (Ag Census):	78,042 acres
Number of Farms (Ag Census):	814
Percent of the County Assessed as Farmland:	49%
Percent of the County Preserved Open Space:	23%
Percent of the County Preserved Farmland:	6%
Percent of Farmland Assessed Land Preserved:	12%
Percent of Land in Farms Preserved (Ag Census):	18%

Anticipated Timeline:

April 19 2007: Public Meetings #1 – Farmland Owners and Residents

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Morris Land Conservancy
19 Boonton Avenue
Boonton, NJ 07005
(973) 541-1010
Fax (973) 541-1131
www.morrislandconservancy.org



Warren County
Department of Land Preservation
500 Mt. Pisgah Avenue
Oxford, NJ
(908) 453-3252

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 By

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 NEW CHARGES THIS MONTH: 28.50
 PAYMENTS RECEIVED THIS MONTH [24]: 0.00
 DEBIT ADJUSTMENTS THIS MONTH [25]: 0.00
 CREDIT ADJUSTMENTS THIS MONTH [26]: 0.00

29	TERMS OF PAYMENT	30	TOTAL AMOUNT DUE
	CURRENT CHARGES DUE 20TH OF THE MONTH FOLLOWING PUBLICATION. PAST DUE ITEMS DUE UPON RECEIPT.		\$28.50

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Legal Notices

October 3, 2007 Public Hearing of the Warren County Agriculture Development Board will be held on October 18, 2007 at 7:00 PM, at the office of the Department of Land Preservation, 600 Mt. Pisgah Avenue, Oxford, New Jersey. This meeting will be for final approval of the County's new Comprehensive Farmland Preservation Plan and the Agriculture Development Area Plan. Copies of plan available to purchase or copied electronically for free when inquirer brings own CD to Department of Land Preservation; also available on Warren County's web site. \$28.50

Published in The Star Ledger on 10/08

Warren County Agricultural Development Board

Invites the Public

To Provide Comment on the

Draft Warren County Comprehensive Farmland Preservation Plan

Thursday, October 18, 2007
7:30 pm

Meeting Room
Warren County Department of Land Preservation
500 Mt. Pisgah Avenue, Oxford

Agenda

- Goals of Preservation Plan and Public Meeting
- Overview of the Warren County Farmland Plan and Maps
- Identification of Project Areas and Land Preservation Goals
- Issues impacting Warren County's Farmland Initiative
- Public Comment on Draft Plan and Maps

Hosted by:

Joel Schnetzer, Chair, Warren County Agriculture Development Board

Freeholder Liaison:

Richard D. Gardner, Warren County Board of Chosen Freeholders

State Representatives: *(invited)*

Tim Brill, State Agriculture Development Committee

Steve Bruder, State Agriculture Development Committee

Meeting Facilitated by Morris Land Conservancy

New Jersey Farmland Preservation Program
Calculated Minimum Rank Score For "Eligible Farm" Status - FY09
Farms Granted Preliminary SADC Approval Through County EP Program in FY06, FY07, FY08

Warren County FY09 Minimum Score for Eligible Farm: 38

Applicant / Owner	Net Acres	Total Score	Round
Allamuchy Twp.			
Warren Co/Van Horn Estate	102	72.41	2006A
Nevins, Iris	53	53.82	2008A
Warren Co/Van Horn Estate	102	70.99	2007A
Blairstown Twp.			
Warren Co./Pehowski, Linda M.	170	65.14	2007A
Petterson, Juanita & Tamara	10	44.62	2008A
DePietro, Ann	90	49.57	2007A
Franklin Twp.			
Bungert, Mary Lou	42	56.08	2006A
Convey, Frank H. & Helen M.	132	53.14	2008A
Sigler, Carl & Barbara #2	84	44.67	2008A
Sigler, Carl & Barbara #1	83	56.92	2008A
Riewerts, Henry	36	45.88	2008A
Petty, Jason	29	65.03	2008A
Miller, John S. & Wendy E.	49	64.12	2008A
Sigler, Earl & Alberta #2	28	58.40	2007A
Owens, Albert H.	55	51.94	2007A
Sigler, Earl & Alberta #1	50	62.37	2007A
Miller, John S. & Wendy E.	49	59.99	2006A
Frelinghuysen Twp.			
Gurba, Stephen Revocable Trust	127	53.77	2006A
Parker, Newton A.	106	41.35	2007A
Kumetz, Divina	74	46.50	2007A
Jensen, Christian J. & Renae	55	52.78	2007A
Peck, Harry B.	44	53.91	2006A
Greenwich Twp.			
Matuch, Walter & Mary Susan	53	55.53	2007A
Hardwick Twp.			
Morris Land Conservancy/Paans	57	34.48	2007A
Harmony Twp.			
Jansen, Peter C.	76	75.37	2007A
Fisher-Bigelow, B. & Schanzlin, R.	84	44.27	2007A
Duckworth, Robert #3	25	67.23	2008A
Duckworth, Robert #2	78	65.31	2008A
Duckworth, Robert #1	70	59.24	2008A
Venner, Estate of Charles	48	66.42	2007A
Hope Twp.			
White Oak Farm Greenhouse & Nursery, LLC	47	61.13	2006A
Grochowicz, Estate of Katherine (T.& L.)	128	67.20	2007A
Hayter, Larry & Mary Anne	77	42.42	2008A

Minimum Score for Eligible Farm is determined at 70% of County Average

March 1, 2007

Page 23 of 25

ADC_FLP score24.rdf

New Jersey Farmland Preservation Program
Calculated Minimum Rank Score For "Eligible Farm" Status - FY09
Farms Granted Preliminary SADC Approval Through County EP Program in FY06, FY07, FY08

Applicant / Owner	Net Acres	Total Score	Round
Hope Twp.			
May, Robert C & Diane L.	37	56.39	2008A
Independence Twp.			
Kasharian, John & Jean	9	44.59	2007A
McCloskey, Anne	46	43.20	2007A
Knowlton Twp.			
Fritz, Estate of Walter & Gladys	13	60.66	2007A
Demers, Doake & Smith Mary J.	77	65.72	2008A
Liberty Twp.			
Pryslak Farms Partnership	60	55.93	2006A
Kurnath, Albert & Jacqueline	74	40.28	2006A
Quick, Alan & Gail	51	34.37	2007A
Topoleski, Robert & Maurine	11	42.04	2007A
Mansfield Twp.			
Sams, Terry L. & Brenda C.	57	54.23	2008A
Terhune Farm Partnership, LP #3	72	66.95	2008A
Terhune Farm Partnership, LP #2	64	52.21	2008A
Terhune Farm Partnership, LP #1	77	60.93	2008A
Warren Co (Smith Estate)	161	61.51	2007A
Getto, Lawrence P.	42	57.46	2007A
Particari, Anthony F. & Mari Ann	65	63.65	2007A
Washington Twp.			
Heath, Joseph J. & Marilyn M.	9	66.55	2007A
McFadden, Thomas & Ruth	14	47.21	2008A
Rigoletti, Martin J. & Jean A.	36	70.00	2007A
White Twp.			
Matthews, Ivan M. & Betty S.	39	54.29	2006A
Bullock, Clarence & Carol	109	50.22	2008A
Steinhardt, Joseph	51	42.09	2008A
White Twp (Crossroads Farm)	109	60.06	2006A
Steinhardt, Therese	77	58.51	2008A
War/Pequest Development LLC	59	71.44	2008A
Matthews, Timothy I. & Lynda K.	88	40.74	2007A
County Total/Averages	59	3,820	55.60

Minimum Score for Eligible Farm is determined at 70% of County Average
 March 1, 2007

RANKING SHEET

Applicants Name
 Project Area
 SADC ID #
 POINTS AWARDED 15.04
 COUNTY RANKING

Ranking Date
 Previous Ranking Date

SOILS

Total Acres	1			
0 # Acres Prime	0.00%	X	15.00	0.00
0 # Acres Statewide	0.00%	X	10.00	0.00
0 # Acres Unique	0.00%	X	12.50	0.00
0 # Acres Local	0.00%	X	5.00	0.00

TOTAL SOILS SCORE 0.00

TILLABLE ACRES

0.00 ACRES OF CROPLAND HARVESTED	0.00%	X15	0.00
0.00 ACRES OF CROPLAND PASTURED	0.00%	X15	0.00
0.00 ACRES OF PERMANENT PASTURE	0.00%	X02	0.00

TOTAL ACRES TILLABLE BY PERCENT 0.00% 0.00

TOTAL TILLABLE ACRES SCORE 0.00

BUFFERS AND BOUNDRIES

Total linear distance of Boundries(TAX Map) 1

0 Deed restricted Farmlands	0.000%	X	20.00 =	0.00
0 Deed restricted wildlife areas	0.000%	X	18.00 =	0.00
0 8 year and/or E.P. Applications.	0.000%	X	13.00 =	0.00
0 Farmland Unrestricted	0.000%	X	6.00 =	0.00
0 Streams or Wetlands	0.000%	X	18.00 =	0.00
0 Limited Access Parks	0.000%	X	14.00 =	0.00
0 High Use Parks	0.000%	X	5.00 =	0.00
0 Military Installations	0.000%	X	14.00 =	0.00
0 Highways and Railroads	0.000%	X	10.00 =	0.00
0 Residential Developments	0.000%	X	0.00 =	0.00
0 Other	0.000%	X	0.00 =	0.00

TOTAL BDRY SCORE 0.00

LOCAL COMMITMENT

Yes=1 point No = 0 point

Is current zoning in the area 3 acres or more?	1
Does the zoning offer clustering or buffering?	0
Does the zoning offer TDR or other preservation options	0
Does the zoning offer protection from conflicts?	1
Is Agriculture a permitted use in the area?	1

TOTAL ZONING SCORE 3

No = 1 pt. Yes = 0 pt.

Is this land currently served by sewers?	1
Is this land currently served by" city water"?	1
Is this land currently served by natural gas?	1

TOTAL GROWTH INFRASTRUCTURE 3

Does the municipality have a liaison to the CADB?
 Name 1
 Has the local planning board supported Farmland Pres. 1
 Have Municipal actions shown a support for Farmland Pres.? 1
 Has the municipality approved any 8 yr. programs? 0
 Have any Easements been purchased in the Municipality? 1
 Is there currently an application before the Twp. for
 a preliminary major subdivision or is a major subdivision
 currently approved?(deduct 5% x acreage) 0

TOTAL MUNICIPAL COMMITMENT 4

Is the application consistant with local and county zoning? 2 MAX 2 pts.
 Is the application consistant with state and Reg. zoning? 2 MAX 2 pts.
 Does right to farm require buyer notification? 0 Max 1 pt.

Total other Commitments 4

Total local committed dollars 1
 State equalized valuation divided by 1000 1290839

INDEX 7.7469E-07

Index> 10 = 5
 Index> 7 < 10 4
 Index=5<7 3
 Index>2<5 2
 Index<2 1

TOTAL FINANCIAL COMMITMENT 1

Total acres of the Application 1
 County average Farm size 114
 Maximum points allowed 20

Total Size Score 0.04 MAX SCORE

TOTAL SOILS SCORE 0.00 MAX 15
 TOTAL TILLABLE ACRES SCORE 0.00 MAX 15
 TOTAL BDRY SCORE 0.00 MAX 20
 TOTAL ZONING SCORE 3.00 MAX 5
 TOTAL GROWTH INFRASTRUCTURE 3.00 MAX 3
 TOTAL MUNICIPAL COMMITMENT 4.00 MAX 5
 Total other Commitments 4.00 MAX 5

TOTAL FINANCIAL COMMITMENT
Total Size Score

1.00 MAX 5
0.04 MAX 20

TOTAL POINTS

15.04 OUT OF A MAXIMUM 93 POINTS

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

Vegetables, Fruit, Berries, Corn		
<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Apgar's Cider Press, Phillipsburg</i>	Roadside Market: Apples, peaches, sour cherries Apple Varieties: Fuji, Golden Delicious, Ida Red, Jonagold, Macoun, McIntosh, Red Delicious, Winesap. Also Available: In season cider, jellies, crafts, eggs, gifts	352 Harmony Brass Castle Rd., Phillipsburg Directions: 1.7 mi. off County Rt. 519 on Harmony Brass Castle Rd. (Rt. 647) in Harmony. Phone: (908) 859-2988
<i>Asbury's Natural Village Farm, Asbury</i>	Open: Saturdays 10 am - 6 pm Roadside Market: Organic produce	10 Bloomsbury Road, Asbury Phone: (908) 537-2846. Web site: www.asburyfarm.org
<i>Asbury Raspberry Farm, Asbury</i>	Open: July 10 - August 8, Daily, dawn - dusk Pick Your Own: Raspberries, blueberries	211 Asbury-Broadway Rd., (Rt. 643), Asbury Directions: Rt. 78 W, Exit 7, right at exit ramp, 1/4 mi. make right onto Rt. 632, 5 miles to stopsign, make left, 1.5 miles on right. Phone: (908) 689-8182
<i>Best's Fruit Farm, Hackettstown</i>	Open: Year Round, 9 AM - 6:30 PM, Weekends 9 AM - 5 PM Roadside Market: Apples; vegetable; peaches Apple Varieties: Cortland, Empire, Gala, Golden Delicious, Jonagold, Jonathan, Macoun, McIntosh, Red Delicious, Stayman/Winesap. Also Available: Jersey Fresh Cooks cookbook; full bakery: donuts - pies; deli; apple pies; cider; bedding plants; mums	West Rt. 46, Hackettstown Directions: I-80 Exit 19, Rt. 517 S to Rt. 46, 1 mi. W Phone: (908) 852-3777
<i>Bohacz Farm, Allamuchy</i>	Open: In Season, 10 AM - Dusk Roadside Market: White Sweet Corn (Silver Queen), Tomatoes, Squash, Eggplant, Pumpkins Also Available: Corn Stalks	Rt. 517 & Cat Swamp Rd., Allamuchy Directions: Rt. 80 Exit 19 to Rt. 517 S, or Rt. 46 to Hackettstown, Rt. 517 N past M & M Candy Factory
<i>Brook Hollow Farm, Hainesburg</i>	Open: August - October, December for trees only Roadside Market: Apples, peaches Pick Your Own: Apples. Apple Varieties: 14 varieties of apples including McIntosh, Rome & Stayman . Also Available: Cut your own Christmas trees	52 Frog Pond Rd., Hainesburg Directions: Rt. 80 W to Exit 4, Rt. 94, 3 1/2 mi. N to Frog Pond Rd. Phone: (908) 496-4577
<i>Country Fresh Farms, Hampton</i>	Open: April - November, Daily 9:30 am - 6 pm Roadside Market: Fruits, vegetables Pick Your Own: Pumpkins Apple Varieties: Full line of apples Also Available: Flowers, shrubs, trees, eggs, pies, crafts, mulch, top soil, mums, pumpkin patch, full line of fall accessories, straw, hay	70 W Asbury Anderson Road, Hampton Directions: From Clinton Rt. 31 N to light at A & P, at Hampton turn left onto Rt. 632, second farm on right Phone: (908) 537-9009, Fax: (908) 537-9009 Email: mjbylicki@earthlink.net

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Denville Farms in Warren County, Knowlton</i>	Open: May 1 - Oct. 31 Pick Your Own: Strawberries; apples; pumpkins	10 Knowlton Rd., Knowlton Phone: (908) 459-9869 Web site: www.denvillefarms.com
<i>Donaldson Farms, Hackettstown</i>	Open: April - November, Daily 8 am - 7 pm Roadside Market: Sweet corn, tomatoes, peaches, melons, asparagus, potatoes, apples, grapes, herbs Pick Your Own: Strawberries, field-grown flowers, pumpkins, gourds, ornamental corn, herbs Apple Varieties: Cortland, Jonagold, Macoun, McIntosh, Mutsu, Paula Red, Winesap Also Available: Jersey Fresh Cooks cookbook, milk, ice cream, honey, jelly dressings, pies, bread, coffee, soup	345 Allen Rd., Hackettstown Directions: Rt. 80, exit 19, Rt 31 N to Rt. 57 E or Rt. 78, exit 24, Rt. 523 N to Rt. 517 N Phone: (908) 852-9122 Web site: www.donaldsonfarms.net
<i>Four Sisters Winery at Matarazzo Farms, Belvidere</i>	Open: Year Round, 9 AM to 6 PM, Clid Wednesday. Jan. - Mar.	Farms Rt. 519, Belvidere Directions: From East Rt. 80 Exit 12, follow signs to Hope, Straight thru 4-way stop 5 mi. Winery/Market on Right Phone: (908) 475-3671 Web site: www.matarazzo.com
<i>Glenview Farm, Blairstown</i>	Open: October - December, Daily 11 am - 5 pm Roadside Market: Pumpkins, gourds, squash, Indian corn Pick Your Own: Pumpkins, squash, Indian corn, gourds Also Available: Christmas trees, wreaths, roping	2 Glenview Lane, Blairstown Directions: Rt. 80 Exit 12, Rt. 521 to Rt. 94, S Rt. 94 to Mohagan Rd. (1 mi.), 4 mi. to Gaisler Rd. Right 1 mi. Phone: (908) 362-6904, Fax: (908) 362-6194 Web site: www.glenviewfarm.com
<i>Godlewsky Farms and Greenhouses, Great Meadows</i>	Pick Your Own: Strawberries; pumpkins; produce; herbs; flowers; bedding plants Also Available: Hanging baskets; potted flowers; Christmas trees; sod; wetland plants; trees; shrubs; ground covers; fruit trees & shrubs	196 Alphano Rd., Great Meadows Directions: Off Rt. 46 or Rt. 80, 3 1/2 mi. on Alphano Rd. Phone: (908) 637-4927
<i>Greenwood Farms, Washington</i>	Open: June 1 - October, Saturdays & Sundays 9am - 5 pm Roadside Market: Variety of produce Also Available: WIC and Senior FMNP checks accepted	135 Port Colden Rd, Washington Directions: Rt. 78 W to Rt. 31 N to Rt. 57 E, bear left at the fork, second left onto port Colden Rd. Phone: (908) 689-2227, Fax: (908) 689-3638

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<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>H.A. Race and Son (Sam Race), Belvidere</i>	Open: June, Daily 8 am - 6 pm Pick Your Own: Strawberries	388 Hazen-Oxford Rd. (Rt. 624), Belvidere Directions: 2.5 mi west of Rt. 31 on Rt. 624 at Oxford; one mile SE of Rt. 519 at Hazen Phone: (908) 453-2374 Email: srrace@earthlink.net
<i>Hensler Farms, Belvidere</i>	Open: Daily, July - Aug., 9 AM - 6 PM Roadside Market: Sweet Corn, Peaches	446 Buckhorn Dr, Belvidere Directions: 3 mi. S of Hazen Blinker; Rt 519 S Phone: (908) 475-2151
<i>Kash Farm, Hackettstown</i>	Open: Year Round, 10 AM - 6 PM Thursday - Sunday Roadside Market: Squash (yellow, green), Lima Beans, Herbs, Eggplant, Cherry Tomatoes, Other Vegetables Pick Your Own: Eggplant, Peppers (Red, Green, Hot), Beans, Lima Beans, Squash (Acorn, Butternut, Spring, Green, Yellow, Scallop), Tomatoes (Grape, Cherry), Brussel Sprouts, Red Cabbage, Flowering Kale, Basil, Mint, Parsley (Curly, Italian), Pumpkins Also Available: Greenhouse, Petting zoo; pot belly pigs; goats. Retail & Wholesale	181 Petersburg Rd., Hackettstown Directions: 3 mi NW of Hackettstown; off Rt. 46 Phone: (908) 852-0570
<i>Kimball's Upick, Belvidere</i>	Pick Your Own: Hot peppers (100+ varieties); herbs; salad greens; lettuce; tomatoes; green peppers; cucumbers; zucchini; sunflowers; green beans; various other vegetables Assisted picking on weekends & evenings; call for alternate times	110 Sarepta Road, Belvidere Directions: Rt. 46 W, approx. 1 1/2 mi. after Rt. 519, make right on Sarepta Rd., 1 mi. N on left side Phone: (908) 475-4473 Email: kimballsupick@earthlink.net Web site: www.kimballsupick.com
<i>Landis End Farm, Allamuchy</i>	Open: April - November, Daily, 9 am - 6 pm Roadside Market: Asparagus, blueberries, strawberries, corn, peaches, eggs, zuchinni, peppers, potatoes, tomatoes, pumpkins, squash, apples Also Available: Hay, wreaths, jams, jellies, fall decorations	46 Gibbs Road, Allamuchy Directions: Off Rt. 517 into Allamuchy, left onto Alphano, right on Long Bridge, left on Gibbs, 3/4 miles on left Phone: (908) 850-1891
<i>Longmeadow Farm, Hope</i>	Open: Weekends Sept. & Oct., 9 am - 5 pm Pick Your Own: Apples (10 Varieties); pumpkins; raspberries; flowers Also Available: Our own honey	561 Blairstown Rd., (Rt. 521), Hope Directions: 1 mi. N of Rt. 80 at Exit 12 Phone: (908) 459-5351 Email: burke@accessgate.net

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Mackey's Orchards, Belvidere</i>	<p>Open: April - Christmas Eve., 7 Days a week</p> <p>Roadside Market: Apples; peaches; pears; plums; nectarines; apricots; cherries; raspberries; tomatoes; peppers; corn; lettuce</p> <p>Pick Your Own: Apples; pumpkins</p> <p>Apple Varieties: Cortland, Empire, Fuji, Gala, Granny Smith, Golden Delicious, Jonagold, Jonathan, Macoun, McIntosh, Red Delicious, Stayman/Winesap</p> <p>Also Available: Jams; Jellies; Basket Goods and Ice Cream</p>	<p>284 CR 519, Belvidere</p> <p>Directions: 78W to 22W to 519 North appr. 10 miles. 80W to exit 12 to 519 South Approx 10 miles. Detailed directions on our website.</p> <p>Phone: (908) 475-1507, Fax: (908)475-1118</p> <p>Email: cider@fast.net</p> <p>Web site: www.mackeyorchard.com</p>
<i>Marshall's Farm Market, Delaware</i>	<p>Open: Year-round, Daily, closed Christmas Day only</p> <p>Roadside Market: Strawberries, sweet corn, tomatoes, herbs, peppers, eggplant, apples, pumpkins, squash, all other fruits & vegetables</p> <p>Pick Your Own: Strawberries</p> <p>Apple Varieties: Approximately 18 varieties of locally grown apples</p> <p>Also Available: Apple cider, bedding plants, fresh-cut flowers, jams, jellies, relishes, meats, baked goods, apple butter, gifts</p>	<p>Rt. 46, Delaware</p> <p>Phone: (908) 475-1989 or (908) 475-2661</p> <p>Email: marsfarm@earthlink.net</p>
<i>Matarazzo Farms, Belvidere</i>	<p>Open: Oct. 1 - 31, 9 am - 5 pm</p> <p>Roadside Market: Pumpkins</p> <p>Pick Your Own: Pumpkins</p> <p>Also Available: Hay rides; fall items; bakery</p>	<p>783 Rt. 519, Belvidere</p> <p>Directions: Exit 12 off I-80, 5 mi. S of Hope</p> <p>Phone: (908) 475-3671, Fax: (908) 475-3555</p> <p>Email: matty@goes.com</p> <p>Web site: www.matarazzo.com</p>
<i>Maxwell's Farm, Changewater</i>	<p>Open: May - Oct.</p> <p>Roadside Market: Vegetables (spring, summer, fall)</p> <p>Also Available: Popcorn, Herbs, Dry Beans, Ornamental Corn, Gourds</p>	<p>Changewater Rd., Changewater</p> <p>Directions: From Rt. 31 N, Right on Asbury-Anderson Rd. (Rt. 632), approx. 2 mi., Right on Changewater Rd. (Rt. 645)</p> <p>Phone: (908) 689-5200 Email:</p>
<i>Penny Toss Farm, Washington</i>	<p>Open: May - Oct. 31, Monday - Saturday 7 AM - 5:30 PM, Sunday 9 AM - 1 PM</p> <p>Roadside Market: Seasonal Produce, Home-grown Vegetables, Pumpkins, Apples Also Available: Our Own Mums, Vegetable Plants, Hanging Baskets, Annuals, Perennials, Fall Products, Landscape Supplies, Shrubs, Trees, Top Soil, Mulch, Stone, Halloween Crafts</p>	<p>661 Rt. 57 East, Washington</p> <p>Directions: Rt. 31 to Rt. 57 towards Hackettstown, 1 mi. from Rt. 31/Rt. 57 intersection, located on the right side</p> <p>Phone: (908) 689-4934</p>

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Piazza Farms & Greenhouses, Phillipsburg</i>	<p>Open: Daily, Apr. 1 - Oct 31, 9:30 am - 6 pm</p> <p>Roadside Market: Sweet corn; tomatoes; peppers; hot peppers; eggplant; cabbage; broccoli; cauliflower; beans; pumpkins</p> <p>Also Available: Gourds; Indian corn; geraniums; bedding plants; vegetable plants; hanging plants (spring); WIC and Senior FMNP checks accepted</p>	<p>71 Rt. 57, Phillipsburg</p> <p>Directions: I-78 to Exit 3 (alt Rt. 22 W) to Rt. 57 W 3/4 mi on Left</p> <p>Phone: (908) 859-3228</p>
<i>Race Farm, Blairstown</i>	<p>Open: Daily, Apr. 1 - Nov. 30, 9 am - 6 pm</p> <p>Roadside Market: Apples; pumpkins; vegetables</p> <p>Pick Your Own: Apples; broccoli; cabbage; pumpkins; beans (lima, snap); peppers; tomatoes; raspberries; eggplant; greens; Brussel sprouts; sunflowers</p> <p>Apple Varieties: Cortland; Empire; Gala; Golden Delicious; Jonagold; Jonathan; Macoun; McIntosh; Red Delicious; Stayman/Winesap</p> <p>Also Available: Nursery stock; bedding plants; baked goods; pottery; WIC and Senior FMNP checks accepted</p>	<p>93 Belcher Rd., Blairstown</p> <p>Directions: I-80 Exit 12, N on Rt. 521 go 2.2 mi., left onto Union Brick Rd., follow directional signs</p> <p>Phone: (908) 362-8151</p> <p>Web site: www.racefarm.com</p>
<i>Silver Lake Farm & Greenhouses, Blairstown</i>	<p>Open: April - October, Daily, 9 am - 6 pm</p> <p>Roadside Market: Vegetables, fruits</p> <p>Also Available: Bedding plants, perennials, cut flowers, WIC and Senior FMNP checks accepted</p>	<p>Silver Lake Farm & Greenhouses 161 Silver Lake Rd., Blairstown</p> <p>Directions: Rt. 80 W to Exit 12, right off ramp onto Rt. 521, second right onto Rt. 608, farm is 3.5 mi.</p> <p>Phone: (908) 362-8107, Fax: (908) 362-6384</p>
<i>Simon Griskonis, Blairstown</i>	<p>Open: Daily Apr. - Christmas, 12 pm - 8 pm</p> <p>Roadside Market: Variety of fruits & vegetables</p> <p>Also Available: WIC and Senior FMNP checks accepted</p>	<p>49 Belcher Rd., Blairstown</p> <p>Phone: (908) 362-5934</p>
<i>Skytop Farm, Port Murray</i>	<p>Open: Year Round</p> <p>Roadside Market: Organic Vegetables & Herbs</p> <p>Also Available: Herbal Vinegar, Free Range Turkeys</p> <p>Organic Produce. Home Delivery</p>	<p>Skytop Farm 49 Fishers Mine Rd., Port Murray</p> <p>Directions: Rt. 517 to Schooley's Mountain</p> <p>Phone: (908) 850-8216</p>
<i>Starbrite Farm, Hardwick</i>	<p>Open: Call Farm Site, Monday - Saturday, 8 AM - 6 PM</p> <p>Roadside Market: Tomatoes, Potatoes, Peppers, Eggplant, Melons, Onions, Pumpkins, Cucumbers, Squash (winter, summer), Lettuce Varieties, Oriental Greens, Cabbage, Broccoli, Arugula, Raab, Chard, Garlic, Beets, Carrots</p> <p>NOFA Certified Organic; WIC and Senior FMNP checks accepted</p>	<p>4 Old Orchard Rd., Hardwick</p> <p>Directions: Approx. 4 mi. N of Blairstown off Rt. 521</p> <p>Phone: (908) 362-7595</p>

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<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Stoneyfield Orchards, Belvidere</i>	<p>Open: Year round , Daily, 9 am - 5:30 pm</p> <p>Roadside Market: Apples, peaches, pears, plums, grapes, cherries, potatoes, tomatoes, sweet corn, strawberries</p> <p>Pick Your Own: Sour cherries, peaches, apples, pears</p> <p>Apple Varieties: Baldwin, Cortland, Empire, Fuji, Gala, Ginger Gold, Golden Delicious, Jersey Mac, Jersey Red, Jonagold, Jonathan, Macoun, McIntosh, Mutsu, Northern Spy, Paula Red, Red Delicious, Rome, Stayman/Winesap & others</p> <p>Also Available: Cider, brown eggs, jelly, preserves, relishes, salad dressing, Vermont cheeses, maple syrup, WIC and Senior FMNP checks accepted</p>	<p>5 Orchard St., Belvidere</p> <p>Directions: From Rt. 80, Exit 12, S on Rt. 521 to Hope, Rt. 519 to Rt. 46, turn right, go west on Rt. 46 to Belvidere sign, left on Rt. 620, go S to first left (Orchard St.), on left side</p> <p>Phone: (908) 475-5209</p>
<i>Tree-Licious Orchards, Port Murray</i>	<p>Open: Weekends (Friday - Sunday), July 15 - Oct. 15, 9 am - 5 pm, by appointment</p> <p>Roadside Market: Apples - all varieties; tomatoes; peaches; pears; quince</p> <p>Pick Your Own: Sweet corn; tomatoes; peaches; plums; apples; pumpkins</p> <p>Also Available: Fresh-baked fruit pies; muffins; WIC and Senior FMNP checks accepted</p>	<p>135 Karrville Rd., Port Murray</p> <p>Directions: Rt. 80 W, Exit 26, Rt. 46 Hackettstown, Rt. 629S Port Murray (Grand Ave), Rt. 628 W, 1.5 mi. (908) 689-2906</p> <p>Phone: (908) 852-7191 (Bakery)</p> <p>Email: jkesler@hotmail.com</p>
<i>Vienna Hill Farm, Hackettstown</i>	<p>Open: September & October</p> <p>Roadside Market: Sweet corn, tomatoes, cucumbers, zucchini, squash, pumpkins, gourds, green peppers, apples, potatoes</p> <p>Also Available: Mums, corn stalks, straw, pansies, flowering kale & cabbage, eggs - available year round</p>	<p>3 Asbury Road, Hackettstown</p> <p>Directions: Independence Twp. Corner of Rt. 46 W & Asbury Rd., 2 mi. W of Center of Hackettstown</p> <p>Phone: (908) 852-3596</p>
<i>Washington Borough Farmers Market, Washington Borough</i>	<p>Open: June 22 - October 5, Fridays, 3pm - 7pm</p> <p>Community Farmers Market: Variety of fruits & vegetables</p> <p>WIC & Senior FMNP vouchers accepted by some farmers</p>	<p>Rt. 31 & Rt. 57 , Washington Borough</p> <p>Directions: Next to Mobil Station, Methodist Church parking lot</p> <p>Phone: (908) 689-4800 - Kathy Cannon</p>

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

Bedding Plants, Nursery, Fire Wood		
Farm	Description	Address
<i>Best's Fruit Farm, Hackettstown</i>	<p>Open: Year Round, 9 AM - 6:30 PM, Weekends 9 AM - 5 PM</p> <p>Roadside Market: Apples; vegetable; peaches</p> <p>Apple Varieties: Cortland, Empire, Gala, Golden Delicious, Jonagold, Jonathan, Macoun, McIntosh, Red Delicious, Stayman/Winesap</p> <p>Also Available: Jersey Fresh Cooks cookbook; full bakery: donuts - pies; deli; apple pies; cider; bedding plants; mums</p>	<p>West Rt. 46, Hackettstown</p> <p>Directions: I-80 Exit 19, Rt. 517 S to Rt. 46, 1 mi. W</p> <p>Phone: (908) 852-3777</p>
<i>Country Fresh Farms, Hampton</i>	<p>Open: April - November, Daily 9:30 am - 6 pm</p> <p>Roadside Market: Fruits, vegetables</p> <p>Pick Your Own: Pumpkins</p> <p>Apple Varieties: Full line of apples</p> <p>Also Available: Flowers, shrubs, trees, eggs, pies, crafts, mulch, top soil, mums, pumpkin patch, full line of fall accessories, straw, hay</p>	<p>70 W Asbury Anderson Road, Hampton</p> <p>Directions: From Clinton Rt. 31 N to light at A & P, at Hampton turn left onto Rt. 632, second farm on right</p> <p>Phone: (908) 537-9009, Fax: (908) 537-9009</p> <p>Email: mjbylicki@earthlink.net</p>
<i>Godlewsky Farms and Greenhouses, Great Meadows</i>	<p>Pick Your Own: Strawberries; pumpkins; produce; herbs; flowers; bedding plants</p> <p>Also Available: Hanging baskets; potted flowers; Christmas trees; sod; wetland plants; trees; shrubs; ground covers; fruit trees & shrubs</p>	<p>196 Alphano Rd., Great Meadows</p> <p>Directions: Off Rt. 46 or Rt. 80, 3 1/2 mi. on Alphano Rd.</p> <p>Phone: (908) 637-4927</p>
<i>Kash Farm, Hackettstown</i>	<p>Open: Year Round, 10 AM - 6 PM Thursday - Sunday</p> <p>Roadside Market: Squash (yellow, green), Lima Beans, Herbs, Eggplant, Cherry Tomatoes, Other Vegetables</p> <p>Pick Your Own: Eggplant, Peppers (Red, Green, Hot), Beans, Lima Beans, Squash (Acorn, Butternut, Spring, Green, Yellow, Scallop), Tomatoes (Grape, Cherry), Brussel Sprouts, Red Cabbage, Flowering Kale, Basil, Mint, Parsley (Curly, Italian), Pumpkins</p> <p>Also Available: Greenhouse, Petting zoo; pot belly pigs; goats</p> <p>Retail & Wholesale</p>	<p>181 Petersburg Rd., Hackettstown</p> <p>Directions: 3 mi NW of Hackettstown; off Rt. 46</p> <p>Phone: (908) 852-0570</p>

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<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Marshall's Farm Market, Delaware</i>	<p>Open: Year-round, Daily, closed Christmas Day only</p> <p>Roadside Market: Strawberries, sweet corn, tomatoes, herbs, peppers, eggplant, apples, pumpkins, squash, all other fruits & vegetables</p> <p>Pick Your Own: Strawberries</p> <p>Apple Varieties: Approximately 18 varieties of locally grown apples Also Available: Apple cider, bedding plants, fresh-cut flowers, jams, jellies, relishes, meats, baked goods, apple butter, gifts</p>	<p>Rt. 46, Delaware</p> <p>Phone: (908) 475-1989 or (908) 475-2661</p> <p>Email: marsfarm@earthlink.net</p>
<i>Penny Toss Farm, Washington</i>	<p>Open: May - Oct. 31, Monday - Saturday 7 AM - 5:30 PM, Sunday 9 AM - 1 PM</p> <p>Roadside Market: Seasonal Produce, Home-grown Vegetables, Pumpkins, Apples</p> <p>Also Available: Our Own Mums, Vegetable Plants, Hanging Baskets, Annuals, Perennials, Fall Products, Landscape Supplies, Shrubs, Trees, Top Soil, Mulch, Stone, Halloween Crafts</p>	<p>661 Rt. 57 East, Washington</p> <p>Directions: Rt. 31 to Rt. 57 towards Hackettstown, 1 mi. from Rt. 31/Rt. 57 intersection, located on the right side</p> <p>Phone: (908) 689-4934</p>
<i>Piazza Farms & Greenhouses, Phillipsburg</i>	<p>Open: Daily, Apr. 1 - Oct 31, 9:30 am - 6 pm</p> <p>Roadside Market: Sweet corn; tomatoes; peppers; hot peppers; eggplant; cabbage; broccoli; cauliflower; beans; pumpkins</p> <p>Also Available: Gourds; Indian corn; geraniums; bedding plants; vegetable plants; hanging plants (spring); WIC and Senior FMNP checks accepted</p>	<p>71 Rt. 57, Phillipsburg</p> <p>Directions: I-78 to Exit 3 (alt Rt. 22 W) to Rt. 57 W 3/4 mi on Left</p> <p>Phone: (908) 859-3228</p>
<i>Race Farm, Blainstown</i>	<p>Open: Daily, Apr. 1 - Nov. 30, 9 am - 6 pm</p> <p>Roadside Market: Apples; pumpkins; vegetables</p> <p>Pick Your Own: Apples; broccoli; cabbage; pumpkins; beans (lima, snap); peppers; tomatoes; raspberries; eggplant; greens; Brussel sprouts; sunflowers</p> <p>Apple Varieties: Cortland; Empire; Gala; Golden Delicious; Jonagold; Jonathan; Macoun; McIntosh; Red Delicious; Stayman/Winesap Also Available: Nursery stock; bedding plants; baked goods; pottery; WIC and Senior FMNP checks accepted</p>	<p>93 Belcher Rd., Blainstown</p> <p>Directions: I-80 Exit 12, N on Rt. 521 go 2.2 mi., left onto Union Brick Rd., follow directional signs</p> <p>Phone: (908) 362-8151</p> <p>Web site: www.racefarm.com</p>
<i>Silver Lake Farm and Greenhouses, Blainstown</i>	<p>Open: April - October, Daily, 9 am - 6 pm</p> <p>Roadside Market: Vegetables, fruits</p> <p>Also Available: Bedding plants, perennials, cut flowers, WIC and Senior FMNP checks accepted</p>	<p>Silver Lake Farm & Greenhouses 161 Silver Lake Rd., Blainstown</p> <p>Directions: Rt. 80 W to Exit 12, right off ramp onto Rt. 521, second right onto Rt. 608, farm is 3.5 mi. Phone: (908) 362-8107,</p>

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<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Well Sweep Herb Farm, Port Murray</i>	Open: Year Round, Monday - Saturday, 9 AM - 5 PM Available: Herb Plants, Perennials, Dried Flowers	205 Mt Bethel Rd., Port Murray

Dairy, Meats, Hay, Farm Animals, Eggs		
<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Apagar's Cider Press, Phillipsburg</i>	Open: Daily, 10 am - 5 pm Roadside Market: Apples, peaches, sour cherries Apple Varieties: Fuji, Golden Delicious, Ida Red, Jonagold, Macoun, McIntosh, Red Delicious, Winesap Also Available: In season cider, jellies, crafts, eggs, gifts	352 Harmony Brass Castle Rd., Phillipsburg Directions: 1.7 mi. off County Rt. 519 on Harmony Brass Castle Rd. (Rt. 647) in Harmony Phone: (908) 859-2988
<i>Country Fresh Farms, Hampton</i>	Open: April - November, Daily 9:30 am - 6 pm Roadside Market: Fruits, vegetables Pick Your Own: Pumpkins Apple Varieties: Full line of apples Also Available: Flowers, shrubs, trees, eggs, pies, crafts, mulch, top soil, mums, pumpkin patch, full line of fall accessories, straw, hay	70 W Asbury Anderson Road, Hampton Directions: From Clinton Rt. 31 N to light at A & P, at Hampton turn left onto Rt. 632, second farm on right Phone: (908) 537-9009, Fax: (908) 537-9009 Email: mjbylicki@earthlink.net
<i>Donaldson Farms, Hackettstown</i>	Open: April - November, Daily 8 am - 7 pm Roadside Market: Sweet corn, tomatoes, peaches, melons, asparagus, potatoes, apples, grapes, herbs Pick Your Own: Strawberries, field-grown flowers, pumpkins, gourds, ornamental corn, herbs Apple Varieties: Cortland, Jonagold, Macoun, McIntosh, Mutsu, Paula Red, Winesap Also Available: Jersey Fresh Cooks cookbook, milk, ice cream, honey, jelly dressings, pies, bread, coffee, soup	345 Allen Rd., Hackettstown Directions: Rt. 80, exit 19, Rt 31 N to Rt. 57 E or Rt. 78, exit 24, Rt. 523 N to Rt. 517 N Phone: (908) 852-9122 Web site: www.donaldsonfarms.net

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Kash Farm, Hackettstown</i>	<p>Open: Year Round, 10 AM - 6 PM Thursday - Sunday</p> <p>Roadside Market: Squash (yellow, green), Lima Beans, Herbs, Eggplant, Cherry Tomatoes, Other Vegetables</p> <p>Pick Your Own: Eggplant, Peppers (Red, Green, Hot), Beans, Lima Beans, Squash (Acorn, Butternut, Spring, Green, Yellow, Scallop), Tomatoes (Grape, Cherry), Brussel Sprouts, Red Cabbage, Flowering Kale, Basil, Mint, Parsley (Curly, Italian), Pumpkins</p> <p>Also Available: Greenhouse, Petting zoo; pot belly pigs; goats</p> <p>Retail & Wholesale</p>	<p>181 Petersburg Rd., Hackettstown</p> <p>Directions: 3 mi NW of Hackettstown; off Rt. 46</p> <p>Phone: (908) 852-0570</p>
<i>Landis End Farm, Allamuchy</i>	<p>Open: April - November, Daily, 9 am - 6 pm</p> <p>Roadside Market: Asparagus, blueberries, strawberries, corn, peaches, eggs, zuchinni, peppers, potatoes, tomatoes, pumpkins, squash, apples</p> <p>Also Available: Hay, wreaths, jams, jellies, fall decorations</p>	<p>46 Gibbs Road, Allamuchy</p> <p>Directions: Off Rt. 517 into Allamuchy, left onto Alphano, right on Long Bridge, left on Gibbs, 3/4 miles on left</p> <p>Phone: (908) 850-1891</p>
<i>Marshall's Farm Market, Delaware</i>	<p>Open: Year-round, Daily, closed Christmas Day only</p> <p>Roadside Market: Strawberries, sweet corn, tomatoes, herbs, peppers, eggplant, apples, pumpkins, squash, all other fruits & vegetables</p> <p>Pick Your Own: Strawberries</p> <p>Apple Varieties: Approximately 18 varieties of locally grown apples Also Available: Apple cider, bedding plants, fresh-cut flowers, jams, jellies, relishes, meats, baked goods, apple butter, gifts</p>	<p>Rt. 46, Delaware</p> <p>Phone: (908) 475-1989 or (908) 475-2661</p> <p>Email: marsfarm@earthlink.net</p>
<i>Piteo Poultry Farm, Hackettstown</i>	<p>Open: Year Round, 8 AM - 8 PM</p> <p>Available: Eggs</p> <p>Self Service, Retail & Wholesale, Delivery</p>	<p>RD#4, 3 Asbury Rd, Hackettstown</p> <p>Directions: Corner of Rt. 46 & Asbury Rd. Phone: (908) 852-3596 Open: Year Round, 8 AM - 8 PM</p>
<i>Skytop Farm, Port Murray</i>	<p>Open: Year Round</p> <p>Roadside Market: Organic Vegetables & Herbs</p> <p>Also Available: Herbal Vinegar, Free Range Turkeys</p> <p>Organic Produce. Home Delivery</p>	<p>Skytop Farm 49 Fishers Mine Rd., Port Murray</p> <p>Directions: Rt. 517 to Schooley's Mountain</p> <p>Phone: (908) 850-8216</p>

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Stoneyfield Orchards, Belvidere</i>	<p>Open: Year round , Daily, 9 am - 5:30 pm</p> <p>Roadside Market: Apples, peaches, pears, plums, grapes, cherries, potatoes, tomatoes, sweet corn, strawberries</p> <p>Pick Your Own: Sour cherries, peaches, apples, pears</p> <p>Apple Varieties: Baldwin, Cortland, Empire, Fuji, Gala, Ginger Gold, Golden Delicious, Jersey Mac, Jersey Red, Jonagold, Jonathan, Macoun, McIntosh, Mutsu, Northern Spy, Paula Red, Red Delicious, Rome, Stayman/Winesap & others</p> <p>Also Available: Cider, brown eggs, jelly, preserves, relishes, salad dressing, Vermont cheeses, maple syrup, WIC and Senior FMNP checks accepted</p>	<p>5 Orchard St., Belvidere</p> <p>Directions: From Rt. 80, Exit 12, S on Rt. 521 to Hope, Rt. 519 to Rt. 46, turn right, go west on Rt. 46 to Belvidere sign, left on Rt. 620, go S to first left (Orchard St.), on left side</p> <p>Phone: (908) 475-5209</p>
<i>Vienna Hill Farm, Hackettstown</i>	<p>Open: September & October</p> <p>Roadside Market: Sweet corn, tomatoes, cucumbers, zucchini, squash, pumpkins, gourds, green peppers, apples, potatoes</p> <p>Also Available: Mums, corn stalks, straw, pansies, flowering kale & cabbage, eggs - available year round</p>	<p>3 Asbury Road, Hackettstown</p> <p>Directions: Independence Twp. Corner of Rt. 46 W & Asbury Rd., 2 mi. W of Center of Hackettstown</p> <p>Phone: (908) 852-3596</p>

Certified Organic, Specialty Foods		
<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Asbury's Natural Village Farm, Asbury</i>	<p>Open: Saturdays 10 am - 6 pm</p> <p>Roadside Market: Organic produce</p>	<p>10 Bloomsbury Road, Asbury</p> <p>Phone: (908) 537-2846</p> <p>Web site: www.asburyfarm.org</p>
<i>Skytop Farm, Port Murray</i>	<p>Open: Year Round</p> <p>Roadside Market: Organic Vegetables & Herbs</p> <p>Also Available: Herbal Vinegar, Free Range Turkeys</p> <p>Organic Produce. Home Delivery</p>	<p>Skytop Farm 49 Fishers Mine Rd., Port Murray</p> <p>Directions: Rt. 517 to Schooley's Mountain</p> <p>Phone: (908) 850-8216</p>

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Starbrite Farm, Hardwick</i>	<p>Open: Call Farm Site, Monday - Saturday, 8 AM - 6 PM</p> <p>Roadside Market: Tomatoes, Potatoes, Peppers, Eggplant, Melons, Onions, Pumpkins, Cucumbers, Squash (winter, summer), Lettuce Varieties, Oriental Greens, Cabbage, Broccoli, Arugula, Raab, Chard, Garlic, Beets, Carrots</p> <p>NOFA Certified Organic; WIC and Senior FMNP checks accepted</p>	<p>4 Old Orchard Rd., Hardwick</p> <p>Directions: Approx. 4 mi. N of Blairstown off Rt. 521</p> <p>Phone: (908) 362-7595</p>

Pumpkins, Harvest, Halloween, Hayrides

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Bohacz Farm, Allamuchy</i>	<p>Open: In Season, 10 AM - Dusk</p> <p>Roadside Market: White Sweet Corn (Silver Queen), Tomatoes, Squash, Eggplant, Pumpkins Also Available: Corn Stalks</p>	<p>Rt. 517 & Cat Swamp Rd., Allamuchy</p> <p>Directions: Rt. 80 Exit 19 to Rt. 517 S, or Rt. 46 to Hackettstown, Rt. 517 N past M & M Candy Factory</p>
<i>Country Fresh Farms, Hampton</i>	<p>Open: April - November, Daily 9:30 am - 6 pm</p> <p>Roadside Market: Fruits, vegetables</p> <p>Pick Your Own: Pumpkins</p> <p>Apple Varieties: Full line of apples Also Available: Flowers, shrubs, trees, eggs, pies, crafts, mulch, top soil, mums, pumpkin patch, full line of fall accessories, straw, hay</p>	<p>70 W Asbury Anderson Road, Hampton</p> <p>Directions: From Clinton Rt. 31 N to light at A & P, at Hampton turn left onto Rt. 632, second farm on right</p> <p>Phone: (908) 537-9009, Fax: (908) 537-9009 Email: mjbylicki@earthlink.net</p>
<i>Denville Farms in Warren County, Knowlton</i>	<p>Open: May 1 - Oct. 31</p> <p>Pick Your Own: Strawberries; apples; pumpkins</p>	<p>10 Knowlton Rd., Knowlton</p> <p>Phone: (908) 459-9869 Web site: www.denvillefarms.com</p>
<i>Donaldson Farms, Hackettstown</i>	<p>Open: April - November, Daily 8 am - 7 pm</p> <p>Roadside Market: Sweet corn, tomatoes, peaches, melons, asparagus, potatoes, apples, grapes, herbs</p> <p>Pick Your Own: Strawberries, field-grown flowers, pumpkins, gourds, ornamental corn, herbs</p> <p>Apple Varieties: Cortland, Jonagold, Macoun, McIntosh, Mutsu, Paula Red, Winesap Also Available: Jersey Fresh Cooks cookbook, milk, ice cream, honey, jelly dressings, pies, bread, coffee, soup</p>	<p>345 Allen Rd., Hackettstown</p> <p>Directions: Rt. 80, exit 19, Rt 31 N to Rt. 57 E or Rt. 78, exit 24, Rt. 523 N to Rt. 517 N</p> <p>Phone: (908) 852-9122</p> <p>Web site: www.donaldsonfarms.net</p>

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Glenview Farm, Blirstown</i>	<p>Open: October - December, Daily 11 am - 5 pm</p> <p>Roadside Market: Pumpkins, gourds, squash, Indian corn</p> <p>Pick Your Own: Pumpkins, squash, Indian corn, gourds</p> <p>Also Available: Christmas trees, wreaths, roping</p>	<p>2 Glenview Lane, Blirstown</p> <p>Directions: Rt. 80 Exit 12, Rt. 521 to Rt. 94, S Rt. 94 to Mohagan Rd. (1 mi.), 4 mi. to Gaisler Rd. Right 1 mi.</p> <p>Phone: (908) 362-6904, Fax: (908) 362-6194</p> <p>Web site: www.glenviewfarm.com</p>
<i>Godlewsky Farms and Greenhouses, Great Meadows</i>	<p>Pick Your Own: Strawberries; pumpkins; produce; herbs; flowers; bedding plants</p> <p>Also Available: Hanging baskets; potted flowers; Christmas trees; sod; wetland plants; trees; shrubs; ground covers; fruit trees & shrubs</p>	<p>Greenhouses 196 Alphano Rd., Great Meadows</p> <p>Directions: Off Rt. 46 or Rt. 80, 3 1/2 mi. on Alphano Rd.</p> <p>Phone: (908) 637-4927</p>
<i>Kash Farm, Hackettstown</i>	<p>Open: Year Round, 10 AM - 6 PM Thursday - Sunday</p> <p>Roadside Market: Squash (yellow, green), Lima Beans, Herbs, Eggplant, Cherry Tomatoes, Other Vegetables</p> <p>Pick Your Own: Eggplant, Peppers (Red, Green, Hot), Beans, Lima Beans, Squash (Acorn, Butternut, Spring, Green, Yellow, Scallop), Tomatoes (Grape, Cherry), Brussel Sprouts, Red Cabbage, Flowering Kale, Basil, Mint, Parsley (Curly, Italian), Pumpkins</p> <p>Also Available: Greenhouse, Petting zoo; pot belly pigs; goats</p> <p>Retail & Wholesale</p>	<p>181 Petersburg Rd., Hackettstown</p> <p>Directions: 3 mi NW of Hackettstown; off Rt. 46</p> <p>Phone: (908) 852-0570</p>
<i>Landis End Farm, Allamuchy</i>	<p>Open: April - November, Daily, 9 am - 6 pm</p> <p>Roadside Market: Asparagus, blueberries, strawberries, corn, peaches, eggs, zuchinni, peppers, potatoes, tomatoes, pumpkins, squash, apples</p> <p>Also Available: Hay, wreaths, jams, jellies, fall decorations</p>	<p>46 Gibbs Road, Allamuchy</p> <p>Directions: Off Rt. 517 into Allamuchy, left onto Alphano, right on Long Bridge, left on Gibbs, 3/4 miles on left</p> <p>Phone: (908) 850-1891</p>
<i>Longmeadow Farm, Hope</i>	<p>Open: Weekends Sept. & Oct., 9 am - 5 pm</p> <p>Pick Your Own: Apples (10 Varieties); pumpkins; raspberries; flowers</p> <p>Also Available: Our own honey</p>	<p>561 Blirstown Rd., (Rt. 521), Hope</p> <p>Directions: 1 mi. N of Rt. 80 at Exit 12</p> <p>Phone: (908) 459-5351</p> <p>Email: burke@accessgate.net</p>

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Mackey's Orchards, Belvidere</i>	<p>Open: April - Christmas Eve., 7 Days a week</p> <p>Roadside Market: Apples; peaches; pears; plums; nectarines; apricots; cherries; raspberries; tomatoes; peppers; corn; lettuce</p> <p>Pick Your Own: Apples; pumpkins</p> <p>Apple Varieties: Cortland, Empire, Fuji, Gala, Granny Smith, Golden Delicious, Jonagold, Jonathan, Macoun, McIntosh, Red Delicious, Stayman/Winesap</p> <p>Also Available: Jams; Jellies; Basket Goods and Ice Cream</p>	<p>284 CR 519, Belvidere</p> <p>Directions: 78W to 22W to 519 North appr. 10 miles. 80W to exit 12 to 519 South Approx 10 miles. Detailed directions on our website.</p> <p>Phone: (908) 475-1507, Fax: (908)475-1118</p> <p>Email: cider@fast.net</p> <p>Web site: www.mackeyorchard.com</p>
<i>Marshall's Farm Market, Delaware</i>	<p>Open: Year-round, Daily, closed Christmas Day only</p> <p>Roadside Market: Strawberries, sweet corn, tomatoes, herbs, peppers, eggplant, apples, pumpkins, squash, all other fruits & vegetables</p> <p>Pick Your Own: Strawberries</p> <p>Apple Varieties: Approximately 18 varieties of locally grown apples</p> <p>Also Available: Apple cider, bedding plants, fresh-cut flowers, jams, jellies, relishes, meats, baked goods, apple butter, gifts</p>	<p>Rt. 46, Delaware</p> <p>Phone: (908) 475-1989 or (908) 475-2661</p> <p>Email: marsfarm@earthlink.net</p>
<i>Matarazzo Farms, Belvidere</i>	<p>Open: Oct. 1 - 31, 9 am - 5 pm</p> <p>Roadside Market: Pumpkins</p> <p>Pick Your Own: Pumpkins</p> <p>Also Available: Hay rides; fall items; bakery</p>	<p>783 Rt. 519, Belvidere</p> <p>Directions: Exit 12 off I-80, 5 mi. S of Hope</p> <p>Phone: (908) 475-3671, Fax: (908) 475-3555</p> <p>Email: matty@goes.com</p> <p>Web site: www.matarazzo.com</p>
<i>Penny Toss Farm, Washington</i>	<p>Open: May - Oct. 31, Monday - Saturday 7 AM - 5:30 PM, Sunday 9 AM - 1 PM</p> <p>Roadside Market: Seasonal Produce, Home-grown Vegetables, Pumpkins, Apples</p> <p>Also Available: Our Own Mums, Vegetable Plants, Hanging Baskets, Annuals, Perennials, Fall Products, Landscape Supplies, Shrubs, Trees, Top Soil, Mulch, Stone, Halloween Crafts</p>	<p>661 Rt. 57 East, Washington</p> <p>Directions: Rt. 31 to Rt. 57 towards Hackettstown, 1 mi. from Rt. 31/Rt. 57 intersection, located on the right side</p> <p>Phone: (908) 689-4934</p>

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Piazza Farms and Greenhouses, Phillipsburg</i>	<p>Open: Daily, Apr. 1 - Oct 31, 9:30 am - 6 pm</p> <p>Roadside Market: Sweet corn; tomatoes; peppers; hot peppers; eggplant; cabbage; broccoli; cauliflower; beans; pumpkins</p> <p>Also Available: Gourds; Indian corn; geraniums; bedding plants; vegetable plants; hanging plants (spring); WIC and Senior FMNP checks accepted</p>	<p>71 Rt. 57, Phillipsburg</p> <p>Directions: I-78 to Exit 3 (alt Rt. 22 W) to Rt. 57 W 3/4 mi on Left</p> <p>Phone: (908) 859-3228</p>
<i>Race Farm, Blairstown</i>	<p>Open: Daily, Apr. 1 - Nov. 30, 9 am - 6 pm</p> <p>Roadside Market: Apples; pumpkins; vegetables</p> <p>Pick Your Own: Apples; broccoli; cabbage; pumpkins; beans (lima, snap); peppers; tomatoes; raspberries; eggplant; greens; Brussel sprouts; sunflowers</p> <p>Apple Varieties: Cortland; Empire; Gala; Golden Delicious; Jonagold; Jonathan; Macoun; McIntosh; Red Delicious; Stayman/Winesap Also Available: Nursery stock; bedding plants; baked goods; pottery; WIC and Senior FMNP checks accepted</p>	<p>93 Belcher Rd., Blairstown</p> <p>Directions: I-80 Exit 12, N on Rt. 521 go 2.2 mi., left onto Union Brick Rd., follow directional signs</p> <p>Phone: (908) 362-8151</p> <p>Web site: www.racefarm.com</p>
<i>Starbrite Farm, Hardwick</i>	<p>Open: Call Farm Site, Monday - Saturday, 8 AM - 6 PM</p> <p>Roadside Market: Tomatoes, Potatoes, Peppers, Eggplant, Melons, Onions, Pumpkins, Cucumbers, Squash (winter, summer), Lettuce Varieties, Oriental Greens, Cabbage, Broccoli, Arugula, Raab, Chard, Garlic, Beets, Carrots</p> <p>NOFA Certified Organic; WIC and Senior FMNP checks accepted</p>	<p>4 Old Orchard Rd., Hardwick</p> <p>Directions: Approx. 4 mi. N of Blairstown off Rt. 521</p> <p>Phone: (908) 362-7595</p>
<i>Tree-Licious Orchards, Port Murray</i>	<p>Open: Weekends (Friday - Sunday), July 15 - Oct. 15, 9 am - 5 pm, by appointment</p> <p>Roadside Market: Apples - all varieties; tomatoes; peaches; pears; quince</p> <p>Pick Your Own: Sweet corn; tomatoes; peaches; plums; apples; pumpkins Also Available: Fresh-baked fruit pies; muffins; WIC and Senior FMNP checks accepted</p>	<p>135 Karrville Rd., Port Murray</p> <p>Directions: Rt. 80 W, Exit 26, Rt. 46 Hackettstown, Rt. 629S Port Murray (Grand Ave), Rt. 628 W, 1.5 mi. (908) 689-2906</p> <p>Phone: (908) 852-7191 (Bakery)</p> <p>Email: jkesler@hotmail.com</p>
<i>Vienna Hill Farm, Hackettstown</i>	<p>Open: September & October</p> <p>Roadside Market: Sweet corn, tomatoes, cucumbers, zucchini, squash, pumpkins, gourds, green peppers, apples, potatoes</p> <p>Also Available: Mums, corn stalks, straw, pansies, flowering kale & cabbage, eggs - available year round</p>	<p>3 Asbury Road, Hackettstown</p> <p>Directions: Independence Twp. Corner of Rt. 46 W & Asbury Rd., 2 mi. W of Center of Hackettstown</p> <p>Phone: (908) 852-3596</p>

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

Christmas Trees		
<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Glenview Farm, Blairstown</i>	Open: October - December, Daily 11 am - 5 pm Roadside Market: Pumpkins, gourds, squash, Indian corn Pick Your Own: Pumpkins, squash, Indian corn, gourds Also Available: Christmas trees, wreaths, roping	2 Glenview Lane, Blairstown Directions: Rt. 80 Exit 12, Rt. 521 to Rt. 94, S Rt. 94 to Mohagan Rd. (1 mi.), 4 mi. to Gaisler Rd. Right 1 mi. Phone: (908) 362-6904, Fax: (908) 362-6194 Web site: www.glenviewfarm.com
<i>Green Farms, Broadway</i>	Open: 10-5 (daily), Nov. 21- Dec. 21 300 species of trees; Douglas fir	23 Beidleman Road Phone: (732) 735-7829 Directions: Rt. 31 to 57 W, 3.1 mi. to Beidleman. Turn left on Beidleman Road. Farm is 500 ft. on left.
<i>Hidden Hollow Farm, Washington</i>	Open: 10-5 (Friday, Sat, Sun), Dec. 1- Dec. 17 400 trees; species: Blue Spruce, Norway Spruce, White Spruce, Douglas-fir, Concolor Fir	18 Spring Lane Phone: (908) 689-5678 Directions: From Rt. 78 - Clinton to Washington - From Rt. 57, take Brass Castle Rd. 1 ½ mi. to Rt. 647 on left. Go 1 mi. up hill to Spring Lane on right. Follow green tree signs.
<i>Jolly Holly Christmas Tree Farm, Blairstown</i>	Open: 12-4 (Sat and Sun), Nov. 25- Dec. 17 200 trees; species: Blue Spruce, Norway Spruce, Douglas-fir, Concolor Fir	56 Maple Lane Phone: (908) 362-6327 Directions: Route 80 W, Exit 12, 521S. go to end, left 94S, right at light. Go straight up hill, turn right and bear left onto Rt. 602 (Millbrook Road). Third left turn onto Maple. Farm on left.
<i>Mt. Bethel Christmas Tree Farm, Port Murray</i>	Open: 9-dusk (Thu-Sun), Nov. 24- Dec 23. Labor Day on, tag anytime 500 trees; Blue Spruce, Norway Spruce, Douglas-fir, Concolor Fir, Canaan Fir	41 Mt. Bethel Road Phone: (908) 852-5811 Directions: Rt. 57 E - 4 mi. to light-left on Rt. 629 - 1 1/2 mi. - rt. on Rockport Rd. - 1/2 mi. - left on Mt. Bethel Rd.- 300 yds. to farm; From Hackettstown - Grand Ave./Rt. 629 off Rt. 46- 6 mi. - rt. on Mt. Bethel Rd.

APPENDIX F: Directory of Warren County Farm Markets and Farm Stands, Tree Farms

<i>Farm</i>	<i>Description</i>	<i>Address</i>
<i>Perfect Christmas Tree Farm, Phillipsburg</i>	Open: 10-dark (daily), Nov. 24- Dec. 23 200 trees, Douglas-fir, Fraser Fir, Scotch Pine	999 Rt. 22 Phone: (908) 835-7840 Directions: Take Rt. I-78 or U.S. 22 West, which will split at Phillipsburg. Take 22 West 2.3 mi. on right. From Hackettstown, take 57 West. Turn left on Rte. 519, second traffic light right, go 1.3 mi. on right.
<i>The Quick Farm, Great Meadows</i>	Open: 8-4:30 (Sat and Sun), Nov. 4- Dec. 17 500 trees; Blue Spruce, Douglas-fir, Concolor Fir, Fraser Fir	4 Morris Lane Phone: (908) 637-6426 Directions: Rt. 46 W in Great Meadows, turn rt. onto Hope Rd. (Rt. 611) at Sts. Peter & Paul Church, 3/4 mi. turn left onto Mt. Lake Rd., 1 mi. to farm on left. From Rt. 80, take Hope-Blairstown Exit 12, into Hope, turn left at light, go 1 block and turn right onto Hope/Great Meadows Rd. (Rt. 611). Go 4 mi. (past "Land of Make Believe"), turn rt. onto Mt. Lake Rd., 1 mi. to farm on left.
<i>Sunset Christmas Tree Farm, Blairstown</i>	Open: 9-4:15 (Fri, Sat, Sun), Nov. 24- Dec. 23 1,000 trees; Blue Spruce, Norway Spruce, Douglas-fir, Concolor Fir	21 Frontage Road Phone: (908) 459-4048 Directions: I-80 (Exit 12) towards Hope - 1/4 mi. - right on Foundry Rd. 1/2 mi. to end – right on Mt. Hermon Rd. 3 mi. to bridge over I-80 to an immed. right onto Frontage Rd.
<i>Wyckoff's Tree Farm, Belvidere</i>	Open: 8:30-4 (daily), Nov. 24-TBD 800 trees; Douglas-fir	249 County Route 519 Phone: (908) 475-4508 Directions: I-80, exit 12 to Rte. 521S to 519S (10 mi. from Rt. 80); I-78, exit 17 to Rte. 31N to Rt. 46W to Rt. 519S (mi. marker 39).

APPENDIX G. Equine Facilities in Warren County

<i>Farm</i>	<i>Description</i>	<i>Address</i>
But4Chance Horse Hotel & Farm, LLC	Boarding	28 Knowlton Rd Columbia, NJ 07832 Phone: (908) 459-5441
Double D Guest Ranch	Rentals	81 Mt. Hermon Rd Blairstown, NJ 07825 Phone: (908) 459-9044
North Wind Stables Ltd.	Training, Boarding, Lessons	6 Meadow Cliff Lane Hardwick, NJ 07825 Phone: (908) 362-7858
Phantom Brook Farm, LLC	Boarding, Lessons	203 Washburn Ave. Washington, NJ 07882 Phone: (908) 689-4428
Ridgecroft Farm	Breeding, Boarding	31 Sunset Lake Road Hardwick, NJ 07825 Phone: (908) 362-9028
Silver Fox Farm	Training, Boarding, Lessons	313 Union Brick Road Blairstown, NJ 07825 Phone: (908) 459-5662
Wind-D-Hill Farm	Breeding	33 Winters Road Phillipsburg, NJ 08865 Phone: (908) 454-7720

STATE AGRICULTURE DEVELOPMENT COMMITTEE
MODEL RIGHT TO FARM ORDINANCE

A. As used in this ordinance, the following words shall have the following meanings:

“Commercial farm” means:

1. A farm management unit of no less than five acres producing agricultural or horticultural products worth \$2,500 or more annually, and satisfying the eligibility criteria for differential property taxation pursuant to the Farmland Assessment Act of 1964, N.J.S.A. 54:4-23.1 et seq.; or
2. A farm management unit less than five acres, producing agricultural or horticultural products worth \$50,000 or more annually and otherwise satisfying the eligibility criteria for differential property taxation pursuant to the Farmland Assessment Act of 1964, N.J.S.A. 54:4-23.1 et seq.

“Farm management unit” means a parcel or parcels of land, whether contiguous or noncontiguous, together with agricultural or horticultural buildings, structures and facilities, producing agricultural or horticultural products, and operated as a single enterprise.

“Farm market” means a facility used for the wholesale or retail marketing of the agricultural output of a commercial farm, and products that contribute to farm income, except that if a farm market is used for retail marketing at least 51 percent of the annual gross sales of the retail farm market shall be generated from sales of agricultural output of the commercial farm, or at least 51 percent of the sales area shall be devoted to the sale of the agricultural output of the commercial farm, and except that if a retail farm market is located on land less than five acres in area, the land on which the farm market is located shall produce annually agricultural or horticultural products worth at least \$2,500.

“Pick-your-own operation” means a direct marketing alternative wherein retail or wholesale customers are invited onto a commercial farm in order to harvest agricultural, floricultural or horticultural products.

B. The right to farm is hereby recognized to exist in this [Township, Borough, City] and is hereby declared a permitted use in all zones of this [Township, Borough, City]. This right to farm includes, but not by way of limitation:

- (1) Production of agricultural and horticultural crops, trees, apiary and forest products, livestock, poultry and other commodities as described in the Standard Industrial Classification for agriculture, forestry, fishing and trapping.
- (2) Housing and employment of necessary farm laborers.

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- (3) Erection of essential agricultural buildings, including those dedicated to the processing and packaging of the output of the commercial farm and ancillary to agricultural and horticultural production.
- (4) The grazing of animals and use of range for fowl.
- (5) Construction of fences.
- (6) The operation and transportation of large, slow-moving equipment over roads within the [Township, Borough, City].
- (7) Control of pests, including but not limited to insects and weeds, predators and diseases of plants and animals.
- (8) Conduction of agriculture-related educational and farm-based recreational activities provided that the activities are related to marketing the agricultural or horticultural output of the commercial farm and permission of the farm owner and lessee is obtained.
- (9) Use of any and all equipment, including but not limited to: irrigation pumps and equipment, aerial and ground seeding and spraying, tractors, harvest aides, and bird control devices.
- (10) Processing and packaging of the agricultural output of the commercial farm.
- (11) The operation of a farm market with attendant signage, including the construction of building and parking areas in conformance with [Township, Borough, City] standards.
- (12) The operation of a pick-your-own operation with attendant signage.
- (13) Replenishment of soil nutrients and improvement of soil tilth.
- (14) Clearing of woodlands using open burning and other techniques, installation and maintenance of vegetative and terrain alterations and other physical facilities for water and soil conservation and surface water control in wetland areas.
- (15) On-site disposal of organic agricultural wastes.
- (16) The application of manure and chemical fertilizers, insecticides and herbicides.
- (17) Installation of wells, ponds and other water resources for agricultural purposes such as irrigation, sanitation and marketing preparation.

Commercial farm operators may engage in any other agricultural activity as determined by the State Agriculture Development Committee and adopted by rule or regulation pursuant to the provisions of the “Administrative Procedure Act,” P.L. 1968, c.410 (C.52:14B-1 et seq.).

- C. Commercial farm operators are strongly advised to adhere to generally accepted agricultural management practices that have been:
- (a) promulgated as rules by the State Agriculture Development Committee;
 - (b) recommended as site-specific agricultural management practices by the county agriculture development board;

- (c) approved by the local soil conservation district in the form of a farm conservation plan that is prepared in conformance with the United States Department of Agriculture, Natural Resources Conservation Service (NRCS) Field Office Technical Guide (FOTG), revised April 20, 1998, as amended and supplemented; or
- (d) recommended by the Rutgers Agricultural Experiment Station.

- D. The foregoing activities must be in conformance with applicable Federal and State law.
- E. The foregoing practices and activities may occur on holidays, weekdays and weekends by day or night and shall include the attendant or incidental noise, odors, dust and fumes associated with these practices.
- F. It is hereby determined that whatever nuisance may be caused to others by these foregoing uses and activities is more than offset by the benefits of farming to the neighborhood community and society in general.
- G. Any person aggrieved by the operation of a commercial farm shall file a complaint with the applicable county agriculture development board, or the State Agriculture Development Committee in counties where no county board exists, prior to filing an action in court.
- H. To help parties resolve conflicts involving the operation of commercial farms, the State Agriculture Development Committee has also established an Agricultural Mediation Program. Mediation is a voluntary process in which a trained, impartial mediator helps disputing parties examine their mutual problems, identify and consider options, and determine if they can agree on a solution. A mediator has no decision-making authority. Successful mediation is based on the voluntary cooperation and participation of all the parties.
- I. An additional purpose of this ordinance is to promote a good neighbor policy by advising purchasers and users of property adjacent to or near commercial farms of accepted activities or practices associated with those neighboring farms. It is intended that, through mandatory disclosures, purchasers and users will better understand the impacts of living near agricultural operations and be prepared to accept attendant conditions as the natural result of living in or near land actively devoted to commercial agriculture or in an Agricultural Development Area, meaning an area identified by a county agriculture development board pursuant to the provisions of N.J.S.A.4:1C-18 and certified by the State Agriculture Development Committee.

The disclosure required by this section is set forth herein, and shall be made a part of, the following disclosure form:

REAL ESTATE TRANSFER DISCLOSURE STATEMENT

This disclosure statement concerns the real property situated in the [Township, Borough, City] of [] described as Block _____, Lot _____. This statement is a disclosure of the conditions of the above described property in compliance with Ordinance No. _____ of the [Township, Borough, City] of []. It is not a warranty of any kind by the seller(s) or any agent(s) representing any principal(s) in this transaction, and is not a substitute for any inspections or warranties the principal(s) may wish to obtain.

I.

Seller's Information

The seller discloses the following information with the knowledge that even though this is not a warranty, prospective buyers may rely on this information in deciding whether and on what terms to purchase the subject property. Seller hereby authorizes any agent(s) representing any principal(s) in this transaction to provide a copy of this statement to any person or entity in connection with any actual or anticipated sale of the property. The following are representations made by the seller(s) as required by the [Township, Borough, City] of [] and are not the representation of the agents, if any. This information is a disclosure and is not intended to be part of any contract between the buyer and seller.

The [Township, Borough, City] of [] permits the operation of generally accepted

agricultural management practices within the municipality. If the property you are purchasing is located near land actively devoted to commercial agriculture or in an Agricultural Development Area, meaning an area identified by a county agriculture development board pursuant to the provisions of N.J.S.A.4:1C-18 and certified by the State Agriculture Development Committee, you may be affected by these agricultural activities or practices. The effect of these activities or practices may include, but are not limited to: noise, odors, fumes, dust, smoke, insects, operation of machinery (including aircraft) during any 24 hour period, storage and disposal of manure and compost, and the application by spraying or otherwise of fertilizers, soil amendments, herbicides and pesticides. One or more of the effects described may occur as the result of any agricultural operation which is in conformance with existing Federal and State laws and regulations and accepted customs and standards. If you live near an agricultural area, you should strive to be sensitive to the needs of commercial farm operators, as their presence is a necessary aspect of an area with a strong rural character and a strong agricultural sector. The State Agriculture Development Committee has established a formal complaint process as well as an informal Agricultural Mediation Program to assist in the resolution of any disputes which might arise between residents of the [Township, Borough, City] of [] regarding the operations of commercial farms.

Seller certifies that the information herein is true and correct to the best of seller=s knowledge as of the date signed by the seller.

Seller _____ Date _____

Seller _____ Date _____

II.

Buyer(s) and seller(s) may wish to obtain professional advice and/or inspections of the property and to provide for appropriate provisions in a contract between buyer and seller(s) with respect to any advice/inspections/defects.

I/We acknowledge receipt of a copy of this statement.

Seller _____ Date _____ Buyer _____ Date _____

Seller _____ Date _____ Buyer _____ Date _____

Agent representing seller _____ By _____ Date _____

E3-E

DEED OF EASEMENT

STATE OF NEW JERSEY AGRICULTURE RETENTION AND DEVELOPMENT PROGRAM

This Deed is made _____, 20 _____.

BETWEEN _____, whose address is _____ and is referred to as the Grantor;

AND _____, whose address is _____ and is referred to as the Grantee and/or Board.

The Grantor, Grantor's heirs, executors, administrators, personal or legal representatives, successors and assigns grants and conveys to the Grantee a development easement and all of the nonagricultural development rights and credits on the Premises, located in the Township of _____, County of _____, described in the attached Schedule A, and, for the limited purpose of the restrictions contained in Paragraph 13(b), the tract of land described in the attached Schedule C, which schedules are incorporated by reference in this Deed of Easement, for and in consideration of the sum of _____ Dollars.

Any reference in this Deed of Easement to "Premises" refers to the property described in Schedule A, and, for the limited purpose of the restrictions contained in Paragraph 13(b), to the tract of land described in Schedule C.

The tax map reference for the Premises is:

Township of _____
Block _____, Lot _____

WHEREAS, the legislature of the State of New Jersey has declared that the development of agriculture and the retention of farmlands are important to the present and future economy of the State and the welfare of the citizens of the State; and

WHEREAS, the Grantor is the sole and exclusive owner of the Premises; and

WHEREAS, the Grantee believes that the retention and preservation of agricultural lands is beneficial to the public health, safety and welfare of the citizens of _____ County;

NOW THEREFORE, THE GRANTOR, GRANTOR'S HEIRS, EXECUTORS, ADMINISTRATORS, PERSONAL OR LEGAL REPRESENTATIVES, SUCCESSORS AND ASSIGNS PROMISES that the Premises will be owned, used and conveyed subject to, and not in violation of the following restrictions:

1. Any development of the Premises for nonagricultural purposes is expressly prohibited.
2. The Premises shall be retained for agricultural use and production in compliance with N.J.S.A. 4:1C-11 et seq., P.L. 1983, c.32, and all other rules promulgated by the State Agriculture Development Committee, (hereinafter Committee). Agricultural use shall mean the use of the Premises for common farmsite activities including, but not limited to: production, harvesting, storage, grading, packaging, processing and the wholesale and retail marketing of crops, plants, animals and other related commodities and the use and application of techniques and methods of soil preparation and management, fertilization, weed, disease and pest control, disposal of farm waste, irrigation, drainage and water management and grazing.
3. Grantor certifies that at the time of the application to sell the development easement to the Grantee and at the time of the execution of this Deed of Easement the nonagricultural uses indicated on attached Schedule (B) existed on the Premises. All other nonagricultural uses are prohibited except as expressly provided in this Deed of Easement.

Prepared by: _____

4. All nonagricultural uses, if any, existing on the Premises at the time of the landowner's application to the Grantee as set forth in Section 3 above may be continued and any structure may be restored or repaired in the event of partial destruction thereof, subject to the following:

- i. No new structures or the expansion of pre-existing structures for nonagricultural use are permitted;
- ii. No change in the pre-existing nonagricultural use is permitted;
- iii. No expansion of the pre-existing nonagricultural use is permitted; and
- iv. In the event that the Grantor abandons the pre-existing nonagricultural use, the right of the Grantor to continue the use is extinguished.

5. No sand, gravel, loam, rock, or other minerals shall be deposited on or removed from the Premises excepting only those materials required for the agricultural purpose for which the land is being used.

6. No dumping or placing of trash or waste material shall be permitted on the Premises unless expressly recommended by the Committee as an agricultural management practice.

7. No activity shall be permitted on the Premises which would be detrimental to drainage, flood control, water conservation, erosion control, or soil conservation, nor shall any other activity be permitted which would be detrimental to the continued agricultural use of the Premises.

- i. Grantor shall obtain within one year of the date of this Deed of Easement, a farm conservation plan approved by the local soil conservation district.
- ii. Grantor's long term objectives shall conform with the provisions of the farm conservation plan.

8. Grantee and Committee and their agents shall be permitted access to, and to enter upon, the Premises at all reasonable times, but solely for the purpose of inspection in order to enforce and assure compliance with the terms and conditions of this Deed of Easement. Grantee agrees to give Grantor, at least 24 hours advance notice of its intention to enter the Premises, and further, to limit such times of entry to the daylight hours on regular business days of the week.

9. Grantor may use the Premises to derive income from certain recreational activities such as hunting, fishing, cross country skiing and ecological tours, only if such activities do not interfere with the actual use of the land for agricultural production and that the activities only utilize the Premises in its existing condition. Other recreational activities from which income is derived and which alter the Premises, such as golf courses and athletic fields, are prohibited.

10. Nothing shall be construed to convey a right to the public of access to or use of the Premises except as stated in this Deed of Easement or as otherwise provided by law.

11. Nothing shall impose upon the Grantor any duty to maintain the Premises in any particular state, or condition, except as provided for in this Deed of Easement.

12. Nothing in this Deed of Easement shall be deemed to restrict the right of Grantor, to maintain all roads and trails existing upon the Premises as of the date of this Deed of Easement. Grantor shall be permitted to construct, improve or reconstruct any roadway necessary to service crops, bogs, agricultural buildings, or reservoirs as may be necessary.

13(a). At the time of this conveyance, Grantor has existing single family residential buildings on the Premises and residential buildings used for agricultural labor purposes. Grantor may use, maintain, and improve existing buildings on the Premises subject to the following conditions:

- i. Improvements to agricultural buildings shall be consistent with agricultural uses;
- ii. Improvements to residential buildings shall be consistent with agricultural or single and extended family residential uses. Improvements to residential buildings for the purpose of housing agricultural labor are permitted only if the housed agricultural labor is employed on the Premises; and
- iii. Improvements to recreational buildings shall be consistent with agricultural or recreational uses.

13(b). Grantor, their heirs, executors, administrators, personal or legal representatives, successors and assigns may use and maintain the Exception Area, as described in the attached Schedule C, conditions:

sample conditions:

- a. the Exception Area shall not be severed or subdivided from the Premises
- b. the Exception area may be severed and subdivided from the Premises
- c. the Exception Area shall be limited to one residential unit
- d. (Right to Farm Language if Exception is Non-Severable)

Grantors, grantor’s heirs, executors, administrators, personal or legal representatives, successors and assigns or any person who is occupying or residing on the Exception Area as well as the heirs, executors, administrators, personal or legal representatives, successors and assigns of all such persons are hereby notified and made aware that the Exception Area is adjacent to a parcel (“Premises”) permanently deed restricted under the Agriculture Retention and Development Act, N.J.S.A. 4:1C-11 et seq. Such persons occupying or residing on the Exception Area are notified and made aware that agriculture is the accepted and preferred use of the adjacent Premises and that the adjacent Premises shall continue in agricultural use as defined in Section 2 of the Deed of Easement.

- e. (Right to Farm Language if Exception is Severable)

Grantors, grantor’s heirs, executors, administrators, personal or legal representatives, successors and assigns or any person to whom title to the Exception Area is transferred as well as the heirs, executors, administrators, personal or legal representatives, successors and assigns of all such persons are hereby notified and made aware that the Exception Area is adjacent to a parcel (“Premises”) permanently deed restricted under the Agriculture Retention and Development Act, N.J.S.A. 4:1C-11 et seq. Such persons taking title to the Exception Area are notified and made aware that agriculture is the accepted and preferred use of the adjacent Premises and that the adjacent Premises shall continue in agricultural use as defined in Section 2 of the Deed of Easement.

14. Grantor may construct any new buildings for agricultural purposes. The construction of any new buildings for residential use, regardless of its purpose, shall be prohibited except as follows:

- i. To provide structures for housing of agricultural labor employed on the Premises but only with the approval of the Grantee and the Committee. If Grantee and the Committee grant approval for the construction of agricultural labor housing, such housing shall not be used as a residence for Grantor, Grantor's spouse, Grantor's parents, Grantor's lineal descendants, adopted or natural, Grantor’s spouse’s parents, Grantor’s spouse’s lineal descendants, adopted or natural; and
- ii. To construct a single family residential building anywhere on the Premises in order to replace any single family residential building in existence at the time of conveyance of this Deed of Easement but only with the approval of the Grantee and Committee.
- iii. _____ residual dwelling site opportunity(ies) have been allocated to the Premises pursuant to the provisions of N.J.A.C. 2:76-6.17, "Residual Dwelling Site Opportunity". The Grantor's request to exercise a residual dwelling site opportunity shall comply with the rules promulgated by the Committee in effect at the time the request is initiated.

In the event a division of the Premises occurs in compliance with deed restriction No. 15 below, the Grantor shall prepare or cause to be prepared a Corrective Deed of Easement reflecting the reallocation of the residual dwelling site opportunities to the respective divided lots. The Corrective Deed shall be recorded with the County Clerk. A copy of the recorded Corrective Deed shall be provided to the Grantee and Committee.

In the event a residual dwelling site opportunity has been approved by the Grantee, the Grantor shall prepare or cause to be prepared a Corrective Deed of Easement at the time of Grantee's approval. The Corrective Deed of Easement shall reflect the reduction of residual dwelling site opportunities allocated to the Premises. The Corrective Deed shall be recorded with the

County Clerk. A copy of the recorded Corrective Deed shall be provided to the Grantee and Committee.

(OR)

- iii. No residual dwelling site opportunities have been allocated pursuant to the provisions of N.J.A.C. 2:76-6.17. No residential buildings are permitted on the Premises except as provided in this Deed of Easement.

For the purpose of this Deed of Easement:

"Residual dwelling site opportunity" means the potential to construct a residential unit and other appurtenant structures on the Premises in accordance with N.J.A.C. 2:76-6.17.

"Residual dwelling site" means the location of the residential unit and other appurtenant structures.

"Residential unit" means the residential building to be used for single family residential housing and its appurtenant uses. The construction and use of the residential unit shall be for agricultural purposes.

"Use for agricultural purposes" as related to the exercise of a residual dwelling site opportunity and the continued use of the residential unit constructed thereto, means at least one person residing in the residential unit shall be regularly engaged in common farmsite activities on the Premises including, but not limited to: production, harvesting, storage, grading, packaging, processing and the wholesale and retail marketing of crops, plants, animals and other related commodities and the use and application of techniques and methods of soil preparation and management, fertilization, weed, disease and pest control, disposal of farm waste, irrigation, drainage, water management and grazing.

15. The land and its buildings which are affected may be sold collectively or individually for continued agricultural use as defined in Section 2 of this Deed of Easement. However, no division of the land shall be permitted without the joint approval in writing of the Grantee and the Committee. In order for the Grantor to receive approval, the Grantee and Committee must find that the division shall be for an agricultural purpose and result in agriculturally viable parcels. Division means any division of the Premises, for any purpose, subsequent to the effective date of this Deed of Easement.

- i. For purposes of this Deed of Easement, "Agriculturally viable parcel" means that each parcel is capable of sustaining a variety of agricultural operations that yield a reasonable economic return under normal conditions, solely from each parcel's agricultural output.

16. In the event of any violation of the terms and conditions of this Deed of Easement, Grantee or the Committee may institute, in the name of the State of New Jersey, any proceedings to enforce these terms and conditions including the institution of suit to enjoin such violations and to require restoration of the Premises to its prior condition. Grantee or the Committee do not waive or forfeit the right to take any other legal action necessary to insure compliance with the terms, conditions, and purpose of this Deed of Easement by a prior failure to act.

17. This Deed of Easement imposes no obligation or restriction on the Grantor's use of the Premises except as specifically set forth in this Deed of Easement.

18. This Deed of Easement is binding upon the Grantor, the Grantor's heirs, executors, administrators, personal or legal representatives, successors and assigns and the Grantee; it shall be construed as a restriction running with the land and shall be binding upon any person to whom title to the Premises is transferred as well as upon the heirs, executors, administrators, personal or legal representatives, successors, and assigns of all such persons.

19. Throughout this Deed of Easement, the singular shall include the plural, and the masculine shall include the feminine, unless the text indicates otherwise.

20. The word 'Grantor' shall mean any and all persons who lawfully succeed to the rights and responsibilities of the Grantor, including but not limited to the Grantor's heirs, executors, administrators, personal or legal representatives, successors and assigns.

21. Wherever in this Deed of Easement any party shall be designated or referred to by name or general reference, such designation shall have the same effect as if the words, 'heirs, executors, administrators, personal or legal representatives, successors and assigns' have been inserted after each and every designation.

22. Grantor, Grantor's heirs, executors, administrators, personal or legal representatives, successors and assigns further transfers and conveys to Grantee all of the nonagricultural development rights and development credits appurtenant to the lands and Premises described herein. Nothing contained herein shall preclude the conveyance or retention of said rights by the Grantee as may be permitted by the laws of the State of New Jersey in the future. In the event that the law permits the conveyance of said development rights, Grantee agrees to reimburse the Committee (_____) percent of the value of the development rights as determined at the time of the subsequent conveyance.

23. That portion of the net proceeds, representing the value of the land only (and not the value of the improvements), of a condemnation award or other disposition of the Premises following termination of this Deed of Easement, as permitted pursuant to N.J.S.A. 4:1C-11 et seq., P.L. 1983, c.32, shall be distributed among the Grantor and the Grantee in shares in proportion to the fair market value of their interests in the Premises on the date of execution of this Deed of Easement. For this purpose, the Grantee's allocable share of the proceeds shall be the net proceeds multiplied by a fraction, the numerator of which is the fair market value of the development easement as certified by the Committee at the time of the initial acquisition and the denominator of which is the full fair market value of the unrestricted Premises as certified by the Committee at the time of the initial acquisition, which is identified as (/).

Furthermore, the Grantee's proceeds shall be distributed among the Grantee and the Committee in shares in proportion to their respective cost share grants on the date of execution of this Deed of Easement. The Grantee shall use its share of the proceeds in a manner consistent with the provisions of N.J.S.A. 4:1C-11 et seq., P.L. 1983, c.32.

24. No historic building or structure located on the Premises may be demolished by the grantor or any other person without the prior approval of the State Agriculture Development Committee. Historic building or structure is a building or structure that, as of the date of this Deed of Easement, has been included in the New Jersey Register of Historic Places established pursuant to N.J.S.A. 13:1B-15.128 et seq.

The Grantor signs this Deed of Easement as of the date of the top of the first page. If the Grantor is a corporation, this Deed of Easement is signed and attested to by its proper corporate officers, and its corporate seal, if any, is affixed.

_____(L.S.)

_____(L.S.)

_____(Corporate Seal)

Secretary
(For use by corporations only)

(INDIVIDUAL ACKNOWLEDGMENT)

STATE OF NEW JERSEY, COUNTY OF _____ SS.:

I CERTIFY that on _____, 20 _____,

_____ personally came before me and acknowledged under oath, to my satisfaction, this that person (or if more than one, each person):

- (a) is named in and personally signed this DEED OF EASEMENT;
- (b) signed, sealed and delivered this DEED OF EASEMENT as his or her act and deed;
- (c) made this DEED OF EASEMENT for and in consideration of mutual obligations and benefits to each party; and
- (d) the actual and true consideration paid for this instrument is \$_____.

Print name and title below signature

(CORPORATE ACKNOWLEDGMENT)

STATE OF NEW JERSEY, COUNTY OF _____ SS.:

I CERTIFY that on _____ 20 _____, the subscriber

_____, personally appeared before me, who, being by me duly sworn on his or her oath, deposes and makes proof to my satisfaction, that he or she is the Secretary of _____, the Corporation named in the within Instrument; that _____ is the President of said Corporation; that the execution, as well as the making of this Instrument, has been duly authorized by a proper resolution of the Board of Directors of the said Corporation, that deponent well knows the corporate seal of said Corporation; and that the seal affixed to said Instrument is the proper corporate seal and was thereto affixed and said Instrument signed and delivered by said President as and for the voluntary act and deed of said Corporation, in presence of deponent, who thereupon subscribed his or her name thereto as attesting witness; and that the full and actual consideration paid to purchase a development easement as evidenced by the DEED OF EASEMENT is \$ _____ and the mutual obligations and benefits contained herein.

Sworn to and subscribed before me, the date aforesaid

Print name and title below signature

(COUNTY AGRICULTURE DEVELOPMENT BOARD)

THE UNDERSIGNED, being Chairperson of the _____ County Agriculture Development Board, hereby accepts and approves the foregoing restrictions, benefits and covenants.

ACCEPTED AND APPROVED this _____ day of _____, 20 ____.

Chairperson
_____ County Agriculture Development Board

STATE OF NEW JERSEY, COUNTY OF _____ SS.:

I CERTIFY that on _____, 20 _____,

_____ personally came before me and acknowledged under oath, to my satisfaction that this person: (a) is named in and personally signed this DEED OF EASEMENT, (b) signed, sealed and delivered this DEED OF EASEMENT as the Board's act and deed; and (c) is the Chairperson of the _____ County Agriculture Development Board.

Print name and title below signature

(STATE AGRICULTURE DEVELOPMENT COMMITTEE)

The State Agriculture Development Committee has approved the purchase of the development easement on the Premises pursuant to the Agriculture Retention and Development Act, N.J.S.A. 4:1C-11 et seq., P.L. 1983, c.32, and has authorized a grant of _____% of the purchase price of the development easement to _____ County in the amount of \$ _____.

Gregory Romano, Executive Director
State Agriculture Development Committee

Date

STATE OF NEW JERSEY, COUNTY OF _____ SS.:

I CERTIFY that on _____, 20 _____,

_____ personally came before me and acknowledged under oath, to my satisfaction, that this person:

- (a) is named in and personally signed this DEED OF EASEMENT,
- (b) signed, sealed and delivered this DEED OF EASEMENT as the Committee's act and deed, and
- (c) is the Executive Director of the State Agriculture Development Committee.

Print name and title below signature

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
ALLAMUCHY TOWNSHIP	303	8.01	3B	MCGOLDRICK, PETER	16.15	10.37	64.2	10.26	63.5
ALLAMUCHY TOWNSHIP	501	9.02	3A	ROCHELLE, PETER H. AND LINDA	16.02	13.96	87.1	10.05	62.7
ALLAMUCHY TOWNSHIP	301	7	3B	MAZZAL OPERATING CO C/O F. FISH	112.78	54.68	48.5	45.51	40.4
ALLAMUCHY TOWNSHIP	901	30	3B	ARENA, GIROLAMO	14.27	14.27	100.0	11.78	82.6
ALLAMUCHY TOWNSHIP	901	29.03	3B	DIOCESE OF METUCHEN	13.31	10.82	81.3	7.49	56.3
ALLAMUCHY TOWNSHIP	303	8.02	3B	STUYVESANT TRUSTS % FLEET INV. SVS.	21.70	10.89	50.2	11.52	53.1
ALLAMUCHY TOWNSHIP	106	3	3A	RUSSO JR LAWRENCE C/O RUSSO DEVELOP	251.20	59.89	23.8	102.62	40.9
ALLAMUCHY TOWNSHIP	602.01	9	3B	KIRDZIK, JOHN & JULIA	0.45	0.39	86.5	0.45	100.0
ALLAMUCHY TOWNSHIP	106	5	3A	WEISS FAMILY LIMITED PARTNERSHIP	145.14	43.62	30.1	117.07	80.7
ALLAMUCHY TOWNSHIP	201	32	3B	GRABOVETZ, GREGORY	59.21	34.12	57.6	37.68	63.6
ALLAMUCHY TOWNSHIP	201	9	3A	SMITH, WAYNE & LAURA	6.84	5.37	78.5	5.06	74.0
ALLAMUCHY TOWNSHIP	501	8	3A	PRANT, R CHRISTOPHER	107.65	46.60	43.3	63.26	58.8
ALLAMUCHY TOWNSHIP	201	11	3A	DRAKE, DALE H & BETTY C & KEITH H	200.12	64.47	32.2	118.96	59.4
ALLAMUCHY TOWNSHIP	602	12	3A	PRYSLAK FARMS	49.60	25.52	51.4	46.34	93.4
ALLAMUCHY TOWNSHIP	602.01	13	3A	PENKOL, ALEX & VICTOR	0.76	0.76	100.0	0.76	100.0
ALLAMUCHY TOWNSHIP	301	3	3B	BECKER, JAMES M & DOLORES A	15.97	9.00	56.3	15.24	95.4
ALLAMUCHY TOWNSHIP	201	22.02	3B	BOCKBRADER, RONALD H	11.72	6.24	53.3	8.46	72.2
ALLAMUCHY TOWNSHIP	602	15	3B	LENCEWICZ, WALTER	9.06	8.03	88.6	8.73	96.3
ALPHA BOROUGH	97	5	3B	0BERLY, JACK	7.63	5.82	76.3	6.11	80.0
ALPHA BOROUGH	97	3	3A	HOMA, FRANCES	95.62	72.26	75.6	94.16	98.5
ALPHA BOROUGH	100	3	3B	ALPHA LEHIGH TOOL & MACHINE CO INC	9.02	9.02	100.0	5.52	61.2
ALPHA BOROUGH	100	10.03	3B	BIHLER OF AMERICA, INC	10.50	10.49	100.0	9.36	89.2
ALPHA BOROUGH	96	5	3B	ALPHA LAND PARTNERS	24.94	21.21	85.0	23.33	93.5
ALPHA BOROUGH	100.01	10.01	3B	JAYNE ENTERPRISES	1.41	1.41	100.0	1.14	80.9
ALPHA BOROUGH	100.01	1	3B	VARGO, ERNEST/TRUSTEE & JULIUS	8.33	8.33	100.0	7.29	87.5
ALPHA BOROUGH	98	1	3B	ALPHA LAND PARTNERS % NORBERT WALL	38.51	28.77	74.7	35.04	91.0
ALPHA BOROUGH	100	4	3B	ALPHA PRESS CO	7.59	7.59	100.0	5.51	72.6
ALPHA BOROUGH	100.01	10	3B	HEYDENREICH, MARLENE C	34.37	34.37	100.0	34.30	99.8
ALPHA BOROUGH	100	10.01	3B	ALPHA LAND, LLC	8.20	8.20	100.0	7.36	89.7
ALPHA BOROUGH	100	1	3B	RAMBO, ROY L JR & LINDA A	11.44	11.44	100.0	11.22	98.1
BELVIDERE TOWN	31	4	3A	BELBY, MICHAEL E & KATHRYN A	8.18	8.18	100.0	6.03	73.7

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
BLAIRSTOWN TOWNSHIP	1705	1	3B	LOCUST VALLEY C/O JOHN DENEUFVILLE	103.26	37.93	36.7	40.30	39.0
BELVIDERE TOWN	31	3	3A	BELBY, MICHAEL E	8.03	8.03	100.0	5.06	63.0
BELVIDERE TOWN	31	7	3A	ST PATRICKS CHURCH	12.82	12.82	100.0	6.50	50.7
BLAIRSTOWN TOWNSHIP	1701	9.06	3A	MERCHAN, JUAN	7.60	5.50	72.3	7.54	99.1
BLAIRSTOWN TOWNSHIP	2203	1	3A	ZUKOSKI, MICHAEL A & WEBER, SUSAN	23.55	18.86	80.1	14.41	61.2
BLAIRSTOWN TOWNSHIP	2002	25.01	3B	THE LAST FRONTIER, INC	6.26	5.27	84.2	5.01	80.0
BLAIRSTOWN TOWNSHIP	1501	14	3B	ROUTE 94 INC C/O HERMAN GORAB	10.45	9.83	94.0	10.40	99.5
BLAIRSTOWN TOWNSHIP	2204	2.14	3B	GRAMBERG, MICHAEL	4.03	4.03	100.0	3.86	95.9
BLAIRSTOWN TOWNSHIP	1701	13.01	3A	BARAN, FRANK & IRENE	156.58	52.24	33.4	72.65	46.4
BLAIRSTOWN TOWNSHIP	2203	3.03	3B	ZUKOSKI, THOMAS & ELIZABETH	3.11	3.11	100.0	2.96	95.1
BLAIRSTOWN TOWNSHIP	1701	18.01	3B	CAMPGAW CLUB, L.L.C. C/O SCHWARTZ	116.81	86.73	74.2	26.65	22.8
GREENWICH TOWNSHIP	15	1	3B	O'DOWDS INC	30.96	30.96	100.0	29.70	95.9
GREENWICH TOWNSHIP	3	12.01	3B	HAWRYLO, JOHN S	16.78	16.78	100.0	15.70	93.5
GREENWICH TOWNSHIP	15	2.02	3B	SUNSHINE CONCEPTS LLC	11.97	11.97	100.0	9.10	76.0
GREENWICH TOWNSHIP	28	5	3A	NEW VILLAGE ROAD LLC C/O KAPLEN	145.22	122.66	84.5	83.04	57.2
GREENWICH TOWNSHIP	27	2	3B	BEATTY, JOHN H & CAROL A	12.37	12.37	100.0	12.14	98.1
GREENWICH TOWNSHIP	20	14	3B	TECTONIC ASSOCIATES	44.36	38.14	86.0	35.50	80.0
GREENWICH TOWNSHIP	13	7	3B	JIORLE, ROBERT/GOODMAN-JIORLE, JACKI	1.57	1.57	100.0	1.57	100.0
GREENWICH TOWNSHIP	20	19	3A	BEATTY, JOHN H & CAROL A	17.35	13.19	76.0	11.64	67.1
HARMONY TOWNSHIP	44	7	3B	PETRILAK, STEPHEN & JOHN	26.38	26.38	100.0	25.67	97.3
GREENWICH TOWNSHIP	20	9	3A	NEW VILLAGE ASSOCIATES % D'ANGELO	86.46	81.28	94.0	52.34	60.5
GREENWICH TOWNSHIP	23	2	3A	LEE, NELSON A AND DONNA J	50.90	41.07	80.7	41.18	80.9
GREENWICH TOWNSHIP	31	4	3A	BARTHE, MICHAEL C/O M EGAN, ESQ	41.44	36.83	88.9	40.78	98.4
HARDWICK TOWNSHIP	1201	1	3A	MAFFENBEIER, JOHN	75.56	55.49	73.4	41.61	55.1
HARDWICK TOWNSHIP	401	29	3A	RAISCH, KENNETH LEE & SUSAN	110.41	46.77	42.4	50.25	45.5
HARDWICK TOWNSHIP	1201	5	3B	MALTON FARMS ASSOCIATES	35.32	19.08	54.0	23.35	66.1
HARDWICK TOWNSHIP	501	2.02	3B	ENGESSER, SYLVIA S	4.49	4.20	93.6	3.49	77.7
HARMONY TOWNSHIP	17	13	3A	VENNER, CHARLES LEONARD	56.03	48.29	86.2	26.63	47.5
HARMONY TOWNSHIP	9	51.02	3B	BURKE, DANA R & BARBARA DINSMORE	18.71	15.86	84.7	18.29	97.7
HARMONY TOWNSHIP	21	34.06	3B	POTTER, DIANA	6.40	6.40	100.0	6.40	100.0
HARMONY TOWNSHIP	37	4	3A	DOWEL ASSOCIATES	185.94	177.41	95.4	169.17	91.0

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
HARMONY TOWNSHIP	45	3	3B	SAKELE BROTHERS CO.	95.40	66.65	69.9	67.00	70.2
INDEPENDENCE TOWNSHIP	29	3	3B	NYKUN, ANDREW JR. & MARJORIE	17.99	14.94	83.0	9.93	55.2
FRANKLIN TOWNSHIP	42	2.05	3B	MININNI, DAVID	9.06	9.06	100.0	9.06	100.0
FRANKLIN TOWNSHIP	42	10	3B	COE-DONALDSON, ROBYN / DONALDSON, J	26.33	26.33	100.0	26.13	99.2
FRANKLIN TOWNSHIP	19	2	3B	STILLWAUGH, JAMES P & CHRISTIE L	5.15	5.15	100.0	4.97	96.5
FRANKLIN TOWNSHIP	7	15.02	3A	WOOLF, ROGER A & ROBERTA	10.22	10.15	99.3	10.17	99.6
FRANKLIN TOWNSHIP	46	27	3A	MCANALLEN CORP.% DELORENZO	108.45	77.91	71.8	51.81	47.8
FRANKLIN TOWNSHIP	16	19	3A	MILLER, JOHN S & WENDY E	49.04	49.04	100.0	42.51	86.7
FRANKLIN TOWNSHIP	8	19	3B	SCHOENWOOD FARMS, LLC	22.52	22.26	98.8	21.18	94.1
FRANKLIN TOWNSHIP	30	41.02	3B	COLALUCE, JOSEPH D.	0.92	0.92	100.0	0.72	77.4
FRANKLIN TOWNSHIP	41	13	3B	HART, MICHAEL & ALEXANDER	171.24	133.73	78.1	143.69	83.9
FRANKLIN TOWNSHIP	16.01	10.03	3B	GREENSTEIN, C SR, C JR, & DAVID	5.42	5.42	100.0	5.10	94.1
GREENWICH TOWNSHIP	28	7	3B	NEW VILLAGE ROAD, LLC C/O KAPLEN	13.19	11.35	86.1	12.68	96.1
GREENWICH TOWNSHIP	40	1	3B	BLOOMSBURY ASSOC C/O JP LEUENBERGER	25.94	25.94	100.0	25.72	99.1
GREENWICH TOWNSHIP	41	13.01	3A	SLACK, JOHN H & MARGARET M	11.60	9.33	80.4	10.82	93.2
GREENWICH TOWNSHIP	22	1	3A	TREICH, KEVIN & MAUREEN	3.74	3.14	83.9	3.45	92.3
GREENWICH TOWNSHIP	26	26	3B	DOMINGUES, JOSE	65.69	55.27	84.1	56.11	85.4
GREENWICH TOWNSHIP	44	22	3B	RYAN, MARGARET E ESTATE	8.76	6.02	68.7	5.23	59.7
HARMONY TOWNSHIP	21	34.05	3B	HAYDU, STEVEN C	6.28	6.28	100.0	6.28	100.0
HARMONY TOWNSHIP	26	42	3B	SALTER, JOHN R	39.58	27.27	68.9	34.76	87.8
HARMONY TOWNSHIP	39	4	3B	PETRILAK, STEPHEN & JOHN	19.45	19.45	100.0	18.82	96.8
HARMONY TOWNSHIP	36	1.06	3B	GERAGHTY, FRANK T & JOAN M	3.65	3.65	100.0	3.20	87.5
HARMONY TOWNSHIP	35	2	3A	SWANSON, DAVID B & SUZANNE	3.39	3.39	100.0	2.98	88.0
HARMONY TOWNSHIP	37	17.02	3B	SMITH, DONALD & RICHARD	48.34	48.34	100.0	46.26	95.7
HARMONY TOWNSHIP	33	47	3B	FARLEY, ROBERT C/O JAMES SWICK	109.55	26.33	24.0	64.51	58.9
HARMONY TOWNSHIP	21	34.02	3B	HAYDU, JOSEPH D	2.67	2.67	100.0	2.67	100.0
HARMONY TOWNSHIP	44	9	3A	DC PARTNERS, L.P.	18.85	18.85	100.0	17.77	94.2
HARMONY TOWNSHIP	8	10	3A	CROUSE, DARLA	34.45	32.74	95.0	24.96	72.5
HARMONY TOWNSHIP	26	43	3B	ROSS, LYANDRA	13.69	13.15	96.1	13.30	97.2
HARMONY TOWNSHIP	44	21	3B	MALLINCKRODT BAKER INC	57.49	49.48	86.1	37.61	65.4
LIBERTY TOWNSHIP	9	1.02	3B	CUMMINS, JUNE	1.23	1.23	100.0	1.23	99.8

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
LIBERTY TOWNSHIP	1	19	3B	PASKO,MARY,EST.C/O EDWARD PASKO SR	3.63	3.59	99.0	2.91	80.2
LIBERTY TOWNSHIP	1	20	3B	PRYSLAK FARMS	23.66	22.38	94.6	23.33	98.6
LIBERTY TOWNSHIP	9	1.01	3B	CUMMINS, JUNE	1.11	1.11	100.0	1.11	99.8
LIBERTY TOWNSHIP	1	37.02	3A	WHITE,NATALIE & GRABOWSKI,DANIEL	10.07	6.29	62.5	9.62	95.6
LIBERTY TOWNSHIP	11	6.01	3A	KEYES, KEVIN & SHERRI	6.88	6.36	92.4	5.75	83.6
LIBERTY TOWNSHIP	11	5	3A	NACCARATO, GENE & KATHY	9.66	8.37	86.6	6.47	67.0
MANSFIELD TOWNSHIP	1201	22	3B	ABKM ASSOCIATES, C/O BLACKSTONE	31.60	28.35	89.7	30.67	97.1
MANSFIELD TOWNSHIP	1203	4.01	3A	HAZEN PHILLIP JR.	17.45	12.79	73.3	13.82	79.2
POHATCONG TOWNSHIP	105	2	3A	WEEKS, ARTHUR R.	76.30	53.30	69.9	36.53	47.9
POHATCONG TOWNSHIP	98	16	3A	ANSMAN JOHN B AND NANCY J	10.73	10.42	97.1	5.51	51.3
POHATCONG TOWNSHIP	96	7.01	3A	HARTUNG, ADRAIN C/TRUST	27.08	22.15	81.8	26.23	96.9
KNOWLTON TOWNSHIP	70	2.10	3A	BICKHARDT, ALLEN P & ALLISON	6.28	6.28	100.0	5.42	86.2
KNOWLTON TOWNSHIP	71	2.02	3A	BAUMANN, CHARLES & ALICE	104.92	56.55	53.9	45.05	42.9
KNOWLTON TOWNSHIP	69	4.08	3B	ZOON, EDWARD M & JOSEPHINE	3.64	3.55	97.6	3.64	99.9
KNOWLTON TOWNSHIP	69	4.07	3B	ZOON, EDWARD M & JOSEPHINE	4.06	4.06	100.0	3.85	94.8
KNOWLTON TOWNSHIP	69	4.06	3B	PROFESSIONAL CUSTOM BUILDERS, INC	3.49	3.49	100.0	3.48	99.8
KNOWLTON TOWNSHIP	76	4	3B	COSTELLO FAMILY TRUST	5.06	5.05	99.8	4.86	96.1
KNOWLTON TOWNSHIP	71	8	3A	DEMERS, RUDOLPH	79.13	44.27	56.0	57.35	72.5
KNOWLTON TOWNSHIP	71	6	3B	MURRAY, GREGORY J & MARJORIE	21.01	21.01	100.0	20.14	95.9
BLAIRSTOWN TOWNSHIP	601	29.06	3A	PERRONE ANGELO & CAROL	11.76	10.90	92.8	8.67	73.8
BLAIRSTOWN TOWNSHIP	1803	3.06	3B	RACE, CARL S & JOYCE	2.98	2.76	92.5	2.98	100.0
BLAIRSTOWN TOWNSHIP	902	4	3A	MURRAY, PAUL & MICHELE M	23.06	16.23	70.4	22.26	96.5
BLAIRSTOWN TOWNSHIP	2204	2.01	3B	GRAMBERG, EDWARD	4.57	3.47	76.0	3.67	80.4
BLAIRSTOWN TOWNSHIP	1803	3.02	3B	RACE DOUGLAS L & VICTORIA B	7.26	7.26	100.0	6.59	90.8
BLAIRSTOWN TOWNSHIP	2002	8.06	3B	MEEHAN, ALFRED	5.64	5.64	100.0	4.30	76.2
BLAIRSTOWN TOWNSHIP	1803	3.04	3B	RACE CARL S JR & JOYCE E	8.85	8.85	100.0	8.71	98.4
BLAIRSTOWN TOWNSHIP	1501	15	3A	CROUCHER, CALVIN R SR, ET ALS	145.84	138.99	95.3	109.03	74.8
BLAIRSTOWN TOWNSHIP	1402	25	3A	GINTER, WINFRED R & SUZANNE W	47.46	39.35	82.9	33.22	70.0
BLAIRSTOWN TOWNSHIP	1501	20.01	3A	MOTT, HOWARD K & IRENE P	16.03	13.89	86.7	8.47	52.9
BLAIRSTOWN TOWNSHIP	903	1	3B	KOSTENBADER, MARGARET	3.96	3.10	78.4	3.82	96.7
BLAIRSTOWN TOWNSHIP	901	2.21	3A	WILLIAMS, JAMES J & GAIL A	5.99	5.16	86.2	4.50	75.2

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

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BLAIRSTOWN TOWNSHIP	1802	14	3A	KALAFUT JOHN S JR & VIRGINIA M	10.43	8.59	82.3	6.10	58.5
BLAIRSTOWN TOWNSHIP	1802	12	3A	YOUNG, GEORGE B & ARLENE S	12.76	12.63	99.0	10.71	83.9
BLAIRSTOWN TOWNSHIP	902	4.02	3B	CULLEN, MICHAEL E & LAURA J	20.04	14.64	73.1	17.95	89.6
BLAIRSTOWN TOWNSHIP	1803	3.01	3A	RACE, CARL S JR & JOYCE E	43.84	29.65	67.6	30.61	69.8
BLAIRSTOWN TOWNSHIP	1803	4.09	3A	CHARNER, HERBERT & JOANN	11.38	10.36	91.0	9.58	84.2
BLAIRSTOWN TOWNSHIP	1803	3.03	3A	RACE, DOUGLAS L & VICTORIA LEE	9.54	9.54	100.0	8.53	89.4
BLAIRSTOWN TOWNSHIP	2101	9	3B	TUDOR, MICHAEL J	11.13	7.05	63.4	6.23	56.0
BLAIRSTOWN TOWNSHIP	1502	5.05	3B	DELLECHIAIE, ANTHONY	2.73	2.73	100.0	2.57	94.1
BLAIRSTOWN TOWNSHIP	506	9	3B	NONNENMACHER LOTHAR J, TRUSTEE	105.67	87.28	82.6	50.22	47.5
BLAIRSTOWN TOWNSHIP	1501	16	3A	JONES, GAYLE MARJORIE	10.89	9.57	87.9	7.32	67.3
BLAIRSTOWN TOWNSHIP	1502	6	3B	JD AIR, INC	41.67	40.74	97.8	38.01	91.2
FRANKLIN TOWNSHIP	50	10	3A	WITTE, HARRY W & ELEANOR H	6.54	5.25	80.2	5.25	80.3
FRANKLIN TOWNSHIP	41	3	3B	HART, MICHAEL & ALEXANDER	97.53	54.31	55.7	40.90	41.9
FRANKLIN TOWNSHIP	8	8	3B	BARCELLONA, GAFTANO & MARIA	99.25	49.31	49.7	26.54	26.7
BLAIRSTOWN TOWNSHIP	1501	10	3B	ROUTE 94 INC C/O HERMAN GORAB	49.56	49.14	99.2	49.48	99.9
BLAIRSTOWN TOWNSHIP	901	3.01	3B	CIANCIA, JEREMIAH J & YOLANDA	31.31	24.06	76.9	26.04	83.2
BLAIRSTOWN TOWNSHIP	1402	15	3A	BASILE, CHARLES & CYNTHIA	70.22	39.77	56.6	27.16	38.7
BLAIRSTOWN TOWNSHIP	702	23.15	3A	EGLOFF ROBERT	7.00	6.96	99.4	5.07	72.3
BLAIRSTOWN TOWNSHIP	702	23	3A	SULLIVAN MICHAEL J & BARBARA ANN	11.78	10.09	85.7	7.31	62.1
BLAIRSTOWN TOWNSHIP	1301	1	3A	ENG, ROY Y & MARY J	14.19	11.71	82.5	9.75	68.7
BLAIRSTOWN TOWNSHIP	702	25	3A	PEACHEY, LYNN M	16.12	10.03	62.2	11.00	68.2
BLAIRSTOWN TOWNSHIP	901	2.08	3A	O'TOOLE, JOHN V & SCHAEFER,SHERIE A	9.12	9.12	100.0	6.03	66.1
BLAIRSTOWN TOWNSHIP	1704	1.01	3A	DEAN, IRVIN W & ADONIS A	87.57	47.56	54.3	63.75	72.8
BLAIRSTOWN TOWNSHIP	508	7	3B	KINNEY, MARY M	12.11	11.83	97.6	10.51	86.8
FRANKLIN TOWNSHIP	61	10	3B	635 WATER STREET, LLC	234.70	59.37	25.3	51.81	22.1
FRANKLIN TOWNSHIP	59	11.01	3B	FALK, NORMAN	1.31	1.28	98.0	1.30	99.4
FRANKLIN TOWNSHIP	61	5	3A	HERITAGE, MAUREEN	93.50	78.73	84.2	86.21	92.2
FRANKLIN TOWNSHIP	61	6	3B	HERITAGE, MAUREEN P	89.77	60.83	67.8	61.05	68.0
FRANKLIN TOWNSHIP	15	9	3B	SAQA, HANNA & NEMEH, GHATTAS, H & L	5.59	5.59	100.0	5.59	100.0
FRANKLIN TOWNSHIP	15	11.03	3B	ELDER, YVONNE	9.69	9.69	100.0	9.69	100.0
FRANKLIN TOWNSHIP	57	13	3B	SIGLER, EARL	3.58	3.58	100.0	3.55	99.0

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FRANKLIN TOWNSHIP	42	4	3B	R & S PROPERTIES, LLC	112.46	89.64	79.7	53.28	47.4
FRANKLIN TOWNSHIP	26	18	3A	HOSER, JOHN	122.34	122.34	100.0	118.33	96.7
FRANKLIN TOWNSHIP	45	57	3A	NYENHOUSE, CAROLYN, C BLALOCK ETALS	4.80	4.80	100.0	3.67	76.4
FRANKLIN TOWNSHIP	11	38	3B	VENNER, CHARLES	0.28	0.28	100.0	0.28	100.0
FRANKLIN TOWNSHIP	48	2	3B	SMITH, ELIZABETH & RICHARD L	47.42	46.94	99.0	35.49	74.8
FRANKLIN TOWNSHIP	26	17	3B	ISE AMERICA	91.17	91.17	100.0	81.81	89.7
FRANKLIN TOWNSHIP	59	1.04	3A	RIVERVIEW FARMS, LLC	40.67	26.77	65.8	34.21	84.1
FRANKLIN TOWNSHIP	58	9	3A	CERICOLA, ROBERT J	9.77	7.46	76.3	9.77	100.0
FRANKLIN TOWNSHIP	58	28	3A	TRUSZKOWSKI, RAYMOND & MARY	34.06	27.04	79.4	29.69	87.2
FRANKLIN TOWNSHIP	58	11	3B	SCHUSTER, JOHN L	25.15	25.14	100.0	25.11	99.9
FRANKLIN TOWNSHIP	58	12	3A	CERICOLA, ROBERT J	67.32	31.61	47.0	39.88	59.2
FRANKLIN TOWNSHIP	42	10.03	3A	WAGNER, RALF-GEORGE & LAURA M	9.67	9.58	99.1	7.54	78.0
FRANKLIN TOWNSHIP	42	2	3A	MININNI, DAVID & PAULA	12.42	12.42	100.0	11.15	89.8
FRANKLIN TOWNSHIP	27	1	3B	FRANKLIN INDUSTRIAL LAND CORP	83.67	70.81	84.6	45.68	54.6
FRANKLIN TOWNSHIP	58	26	3A	TRUSZKOWSKI, RAYMOND & MARY	114.21	48.91	42.8	75.80	66.4
FRANKLIN TOWNSHIP	57	31.01	3B	BOWSER, ADAM L	65.38	65.38	100.0	64.27	98.3
FRANKLIN TOWNSHIP	42	10.04	3A	BRANDT, MARILYN	9.98	9.98	100.0	9.98	100.0
FRANKLIN TOWNSHIP	58	17	3A	BUTLER, WILMER	37.08	35.65	96.1	33.95	91.6
FRANKLIN TOWNSHIP	48	1	3A	SIGLER, EARL	48.49	46.35	95.6	47.50	98.0
FRANKLIN TOWNSHIP	28	2	3A	COLALUCE, JOSEPH D.	17.46	17.46	100.0	15.60	89.3
FRANKLIN TOWNSHIP	48	16	3A	GARDNER, ROBERT E & JOANN M	91.56	56.88	62.1	62.31	68.1
FRANKLIN TOWNSHIP	16	12.03	3B	WOOLF ROGER A & ROBERTA L	5.17	5.17	100.0	5.17	100.0
FRANKLIN TOWNSHIP	42	1	3B	O'DOWDS ASSOCIATES	15.92	15.92	100.0	15.71	98.7
FRANKLIN TOWNSHIP	8	10	3A	SCHOENWOOD FARMS, LLC	182.24	82.19	45.1	76.49	42.0
FRANKLIN TOWNSHIP	40	1	3B	O'DOWD, BRIAN	14.73	14.73	100.0	14.38	97.6
FRANKLIN TOWNSHIP	45	50.06	3B	BROWN, DAVID S	30.58	25.01	81.8	16.22	53.1
FRANKLIN TOWNSHIP	53	5	3B	R L L ENTERPRISES INC	12.85	12.85	100.0	9.90	77.0
FRANKLIN TOWNSHIP	39	5	3A	TASEVSKI, MILAN & SPASA	86.71	86.71	100.0	55.05	63.5
FRANKLIN TOWNSHIP	15	7.01	3B	SAQA, HANNA & NEMETH & GHATTAS, H	3.06	3.06	100.0	3.00	97.9
FRANKLIN TOWNSHIP	15	8	3B	FERRO, MARILYN M	5.19	5.19	100.0	5.19	100.0
FRANKLIN TOWNSHIP	15	13	3A	STULL, JAMES & VERNA	54.60	54.60	100.0	47.34	86.7

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
FRANKLIN TOWNSHIP	57	30	3B	BUTLER, PATRICIA D & BONNIE	26.97	26.97	100.0	26.05	96.6
FRANKLIN TOWNSHIP	39	14	3B	NORTH CENTRAL REALCO, LLC	0.68	0.68	100.0	0.66	97.2
FRANKLIN TOWNSHIP	26	3	3B	SIGLER, CARL	58.96	58.96	100.0	57.75	97.9
FRANKLIN TOWNSHIP	57	18	3B	HAGAMAN, ELOISE	33.38	33.35	99.9	30.47	91.3
FRANKLIN TOWNSHIP	51	1	3A	RIGGS, DONALD L & VALERIE M	32.42	26.31	81.2	24.28	74.9
FRANKLIN TOWNSHIP	8	18	3B	SCHOENWOOD FARMS, LLC	20.26	20.26	100.0	20.26	100.0
FRELINGHUYSEN TOWNSHIP	1601	19	3A	KLEBER, RICHARD & BRENDA	13.04	13.00	99.7	8.57	65.7
FRANKLIN TOWNSHIP	56	36	3B	SMITH, ELIZABETH & RICHARD L	72.84	48.88	67.1	63.30	86.9
FRANKLIN TOWNSHIP	8	17	3B	SCHOENWOOD FARMS, LLC	3.85	3.85	100.0	3.81	98.9
FRANKLIN TOWNSHIP	45	50.04	3B	BROWN, DAVID S	2.98	2.98	100.0	2.97	99.8
FRANKLIN TOWNSHIP	12	7	3B	EASTVIEW FARM, LLC	22.91	22.62	98.8	21.55	94.1
FRANKLIN TOWNSHIP	11	34	3B	MCBRIEN, NIEL & T & M MURPHY ETALS	69.62	33.28	47.8	28.60	41.1
FRANKLIN TOWNSHIP	57	30.02	3B	BUTLER, PATRICIA D & BONNIE	2.22	2.22	100.0	2.22	100.0
FRANKLIN TOWNSHIP	56	34	3B	BLUMBERG, BRUCE	63.19	30.72	48.6	58.06	91.9
FRANKLIN TOWNSHIP	57	14	3A	SIGLER, EARL	4.77	4.77	100.0	4.35	91.2
FRANKLIN TOWNSHIP	7	17.19	3A	HERRMANN, PETER K	12.53	12.53	100.0	10.11	80.7
FRANKLIN TOWNSHIP	45	4.03	3B	BANGHART, JOSEPH A & GEORGE W	1.46	1.46	100.0	1.19	81.8
FRANKLIN TOWNSHIP	34	10	3A	SANTINI, ROBERT A	31.50	31.50	100.0	22.56	71.6
FRANKLIN TOWNSHIP	7	13	3B	DE MASI, JOSEPH V % J SCOTT DEMASI	0.47	0.47	100.0	0.43	92.4
FRANKLIN TOWNSHIP	27	6	3A	BANGHART, JOSEPH	39.68	39.68	100.0	38.95	98.2
FRANKLIN TOWNSHIP	57	30.01	3B	BUTLER, WILMER T	1.55	1.55	100.0	1.55	100.0
FRANKLIN TOWNSHIP	15	4	3A	PEREIRA, GABRIEL	32.60	32.60	100.0	24.37	74.8
FRANKLIN TOWNSHIP	56	26	3A	VERKADE, JAN R.W. & KATHRYN	46.06	45.54	98.9	37.57	81.6
FRANKLIN TOWNSHIP	45	26	3A	SIGLER, RONALD SR & SHIRLEY	20.76	14.37	69.2	13.50	65.0
FRANKLIN TOWNSHIP	26	8	3B	SIGLER, CARL	1.75	1.75	100.0	1.75	100.0
FRANKLIN TOWNSHIP	41	1	3B	O'DOWD'S ASSOCIATES INC	13.46	10.81	80.3	13.08	97.1
FRANKLIN TOWNSHIP	42	2.03	3B	ADS HOMES, LLC	5.22	5.22	100.0	4.81	92.2
FRANKLIN TOWNSHIP	8	21	3A	COPPERSMITH, RICHARD P. & ARLEEN	61.89	44.69	72.2	31.25	50.5
FRANKLIN TOWNSHIP	34	9	3A	HART, MICHAEL & ALEXANDER	124.03	81.81	66.0	82.09	66.2
FRANKLIN TOWNSHIP	45	37	3A	SONZOGNI, EBE N & CAROL J	146.29	117.12	80.1	98.91	67.6
FRANKLIN TOWNSHIP	39	5.11	3B	TASEVSKI, MILAN & SPASA	1.53	1.53	100.0	1.40	91.9

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
FRANKLIN TOWNSHIP	11	37	3B	MCBRIEN, NIEL & T & M MURPHY ETALS	12.04	12.04	100.0	7.72	64.1
FRANKLIN TOWNSHIP	15	4.01	3B	SAQA,HANNA J & NEMEH, GHATTAS,H & L	10.49	10.49	100.0	10.39	99.0
FRANKLIN TOWNSHIP	26	1	3B	WOOLF FAMILY LIMITED PARTNERSHIP	49.28	45.18	91.7	47.06	95.5
FRANKLIN TOWNSHIP	27	2	3B	ISE AMERICA	67.02	67.02	100.0	62.58	93.4
FRANKLIN TOWNSHIP	48	3	3B	SIGLER, EARL	30.42	19.94	65.5	30.42	100.0
FRANKLIN TOWNSHIP	46	20	3B	D'ANGELO, ALBERT	32.31	21.91	67.8	21.89	67.7
FRANKLIN TOWNSHIP	2	2	3A	JANECKO, THOMAS & KATHERINE MATLOCK	25.86	25.86	100.0	13.62	52.7
FRANKLIN TOWNSHIP	1	6	3B	ROUTE 57 PARTNERSHIP	77.59	50.59	65.2	30.81	39.7
FRANKLIN TOWNSHIP	56	33	3A	SAMUEL, MARK J & MARGARET M	61.42	41.99	68.4	42.89	69.8
FRANKLIN TOWNSHIP	57	29.02	3B	BUTLER, WILMER T & PATRICIA D	1.60	1.60	100.0	1.48	92.5
FRANKLIN TOWNSHIP	8	15	3B	GYURICZA, ALAN & SIMONE	6.97	6.70	96.1	5.02	72.0
FRANKLIN TOWNSHIP	48	14	3A	DEMMEEST, EMMA	95.74	77.95	81.4	88.22	92.1
FRANKLIN TOWNSHIP	56	35	3B	SMITH, ELIZABETH & RICHARD L	14.81	14.33	96.8	10.26	69.3
FRANKLIN TOWNSHIP	15	5	3B	PEAR TREE REALTY, INC	67.81	67.81	100.0	61.20	90.2
FRANKLIN TOWNSHIP	58	16	3A	BADWAY MAURICE A	55.89	35.23	63.0	26.52	47.5
FRANKLIN TOWNSHIP	26	14	3B	BANGHART, JOSEPH	2.60	2.60	100.0	2.60	100.0
FRANKLIN TOWNSHIP	7	15	3A	WOOLF, RICHARD A	36.43	29.58	81.2	30.36	83.3
FRANKLIN TOWNSHIP	16.01	10	3B	LACKLAND & LACKLAND	2.80	2.80	100.0	2.80	100.0
FRANKLIN TOWNSHIP	7	17.18	3A	TOMLINSON, EDWARD P & JANET V	12.75	12.75	100.0	11.02	86.4
FRANKLIN TOWNSHIP	46	37	3B	HOOD, ROBERT & KIM	82.17	39.87	48.5	37.36	45.5
FRANKLIN TOWNSHIP	45	56	3B	NYENHOUSE, CAROLYN, C BLALOCK ETALS	5.65	5.65	100.0	4.99	88.4
FRANKLIN TOWNSHIP	43	11	3B	SANTINI, SANTINO J & CLARA S	49.26	37.29	75.7	37.97	77.1
FRANKLIN TOWNSHIP	41	10.05	3B	SANTINI, SANTINO JR & CHRISTINE M	17.19	17.12	99.6	16.54	96.2
FRANKLIN TOWNSHIP	56	33.01	3B	SAMUEL, MARK & MARGARET M	3.74	3.57	95.6	3.20	85.5
FRANKLIN TOWNSHIP	26	16	3B	ISE AMERICA	68.81	68.81	100.0	63.29	92.0
FRANKLIN TOWNSHIP	57	30.03	3B	BUTLER, WILMER T	1.78	1.78	100.0	1.71	95.7
FRANKLIN TOWNSHIP	18	26	3B	SMITH, MIRIAM E	24.88	20.71	83.2	19.31	77.6
FRANKLIN TOWNSHIP	26	2	3B	BLUMNER ASSOCIATES LLC ETALS	88.45	73.92	83.6	75.16	85.0
FRANKLIN TOWNSHIP	11	37.02	3B	MCBRIEN, NIEL & T & M MURPHY ETALS	0.09	0.09	100.0	0.09	100.0
FRANKLIN TOWNSHIP	8	16	3B	GYURICZA, ALAN & SIMONE	4.43	4.43	100.0	3.40	76.8
FRANKLIN TOWNSHIP	27	5	3A	BANGHART, GEORGE W	37.08	36.74	99.1	36.27	97.8

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
FRANKLIN TOWNSHIP	45	9	3A	TORETTA, PETER & ELEANOR	7.94	6.49	81.8	6.87	86.5
FRANKLIN TOWNSHIP	45	5	3A	BANGHART GEORGE W	60.64	29.93	49.3	28.31	46.7
FRANKLIN TOWNSHIP	46	17	3B	TORETTA, PETER & ELEANOR	50.65	40.06	79.1	42.20	83.3
FRANKLIN TOWNSHIP	8	10.02	3B	THE SCOTT HOUSE	11.18	10.96	98.0	10.13	90.6
FRANKLIN TOWNSHIP	26	15	3B	BANGHART, GEORGE W	53.72	53.72	100.0	53.61	99.8
FRANKLIN TOWNSHIP	7	14.04	3B	BARCELLONA, GAFTANO & MARIA	10.59	10.59	100.0	10.59	100.0
FRANKLIN TOWNSHIP	7	14.05	3B	BARCELLONA, GAFTANO & MARIA	1.67	1.67	100.0	1.67	100.0
FRANKLIN TOWNSHIP	26	13	3B	BANGHART, JOSEPH	101.08	101.08	100.0	92.50	91.5
FRANKLIN TOWNSHIP	41	7	3B	SANTINI, SANTINO J JR & CHRISTINE M	32.96	32.65	99.0	21.11	64.0
FRANKLIN TOWNSHIP	15	10	3B	SAQA, HANNA & NEMEH, GHATTAS, H & L	37.37	36.81	98.5	35.91	96.1
FRANKLIN TOWNSHIP	58	8	3B	CERICOLA, ROBERT J	66.79	41.97	62.8	63.86	95.6
FRANKLIN TOWNSHIP	16.04	1.01	3B	SMITH, STEWART C & ESTELLE	2.14	2.14	100.0	2.13	99.4
FRANKLIN TOWNSHIP	16.04	1.03	3B	SMITH, STEWART C & ESTELLE	2.28	2.28	100.0	2.28	100.0
FRANKLIN TOWNSHIP	16.04	1.02	3B	SMITH, STEWART C & ESTELLE	2.09	2.09	100.0	2.09	100.0
FRANKLIN TOWNSHIP	16.04	1.05	3B	SMITH, STEWART C & ESTELLE	9.32	9.10	97.6	8.58	92.0
FRANKLIN TOWNSHIP	16.04	1.04	3B	SMITH, STEWART C & ESTELLE	9.18	9.18	100.0	8.84	96.3
FRANKLIN TOWNSHIP	16	21	3A	SMITH, STEWART C. & ESTELLE	59.88	59.88	100.0	56.65	94.6
FRELINGHUYSEN TOWNSHIP	1803	9.07	3B	BOYNTON, DAVID C & PATRICIA D	9.83	9.42	95.8	8.15	82.9
FRELINGHUYSEN TOWNSHIP	902	4	3A	CARSON, DANIEL & WHITNEY	232.56	118.37	50.9	130.16	56.0
FRELINGHUYSEN TOWNSHIP	1301	17	3A	LEE, DONALD J & KATRINA C	11.27	11.17	99.1	7.12	63.2
FRELINGHUYSEN TOWNSHIP	801	15	3A	PANTALEONI, EMILY	93.70	46.61	49.7	51.66	55.1
FRELINGHUYSEN TOWNSHIP	1601	4.01	3B	WEIDNER FAMILY PARTNERSHIP LP	1.76	1.64	93.0	1.60	90.8
FRELINGHUYSEN TOWNSHIP	201	17.02	3A	DECAMP, ROBERT B & SUE A	35.05	33.76	96.3	22.06	62.9
FRELINGHUYSEN TOWNSHIP	1201	5.03	3B	FRELINGHUYSEN, RODNEY P	9.24	9.24	100.0	7.93	85.8
FRELINGHUYSEN TOWNSHIP	801	20.03	3A	ORLANDI, GEOFFREY & BARBARA A	16.66	12.56	75.4	15.79	94.8
FRELINGHUYSEN TOWNSHIP	1201	5.08	3B	FRELINGHUYSEN, RODNEY P	7.95	7.17	90.2	7.95	100.0
FRELINGHUYSEN TOWNSHIP	602	3.01	3A	WOLFE JOAN / FREEBORN LISA & ANDREW	9.91	6.19	62.5	8.45	85.3
FRELINGHUYSEN TOWNSHIP	602	13	3B	ROSSI, JOHN & LOUISE & JOHN D	7.57	7.57	100.0	6.80	89.8
FRELINGHUYSEN TOWNSHIP	601	4	3B	SCHWARTZ, DAVID A TRUSTEE	36.36	29.96	82.4	22.67	62.4
FRELINGHUYSEN TOWNSHIP	1501	13	3A	PEACEFUL VALLEY FARMS LLC	48.08	28.87	60.0	35.00	72.8
FRELINGHUYSEN TOWNSHIP	1601	4	3B	WEIDNER FAMILY PARTNERSHIP LP	4.69	4.27	91.2	3.72	79.3

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
FRELINGHUYSEN TOWNSHIP	601	11.02	3B	BROZOWSKI, MARY ANN	3.13	3.13	100.0	2.80	89.3
FRELINGHUYSEN TOWNSHIP	601	6	3B	WILLIAMS, ANDREW H	58.29	36.32	62.3	35.61	61.1
FRELINGHUYSEN TOWNSHIP	201	23	3B	IHM REALTY ASSOCIATES LLC	89.99	38.64	42.9	59.84	66.5
FRELINGHUYSEN TOWNSHIP	502	23.01	3A	GURDAK, JOHN A & MARYANN HUGHES	17.53	11.07	63.2	12.44	71.0
FRELINGHUYSEN TOWNSHIP	1301	23.01	3A	GANG, WALTER A & LINDA	15.73	14.97	95.1	14.04	89.3
FRELINGHUYSEN TOWNSHIP	801	16	3B	MURPHY, RICHARD & GLORIA	30.26	19.88	65.7	16.25	53.7
FRELINGHUYSEN TOWNSHIP	1201	13	3A	NATYZAK, BARNEY & HELEN	102.15	39.38	38.5	35.69	34.9
FRELINGHUYSEN TOWNSHIP	1201	5.04	3B	WALLACE, RICHARD G & ESTHER M	5.15	5.15	100.0	4.46	86.6
FRELINGHUYSEN TOWNSHIP	201	31	3B	TOWNSHIP OF FRELINGHUYSEN	59.24	50.66	85.5	46.91	79.2
FRELINGHUYSEN TOWNSHIP	602	3	3A	WOODCOCK, PIETER H & KAREN V	30.51	25.97	85.1	23.87	78.2
FRELINGHUYSEN TOWNSHIP	501	9	3A	RIDGE AND VALLEY CHARTER SCHOOL INC	17.59	12.54	71.3	15.49	88.0
FRELINGHUYSEN TOWNSHIP	201	22	3A	IHM REALTY ASSOCIATES LLC	16.22	11.82	72.9	12.59	77.7
FRELINGHUYSEN TOWNSHIP	1201	3.03	3B	BAGGOTT, CATHERINE	5.88	5.67	96.3	5.38	91.4
FRELINGHUYSEN TOWNSHIP	201	21	3A	CANACE, ROBERT J & CINDY S	5.82	5.82	100.0	5.53	95.1
FRELINGHUYSEN TOWNSHIP	1201	5.01	3A	SINHA, DINESHWAR P & MARY L	9.06	8.24	90.9	6.62	73.0
FRELINGHUYSEN TOWNSHIP	1301	19.05	3A	EVERSWICK, FRANK E	18.19	12.00	66.0	9.26	50.9
FRELINGHUYSEN TOWNSHIP	1201	6	3B	IHM REALTY ASSOCIATES LLC	1.86	1.86	100.0	1.49	79.9
FRELINGHUYSEN TOWNSHIP	601	2	3B	SCHWARTZ, DAVID A TRUSTEE	8.45	8.36	99.0	8.42	99.7
FRELINGHUYSEN TOWNSHIP	501	27	3B	PERRETTI, PETER N JR & RUTH	34.76	21.31	61.3	17.49	50.3
FRELINGHUYSEN TOWNSHIP	102	8	3B	KLEINDIENST, ARTHUR & KATHERINE M	30.54	20.15	66.0	26.84	87.9
FRELINGHUYSEN TOWNSHIP	1401	5	3A	FRIDMAN, SIGMUNDO M & HANNA T	97.43	30.90	31.7	56.31	57.8
FRELINGHUYSEN TOWNSHIP	1701	9	3A	SCHWARTZ, DAVID A	116.46	26.76	23.0	32.28	27.7
FRELINGHUYSEN TOWNSHIP	1803	12	3A	MANAK, MARY	127.85	74.22	58.0	45.02	35.2
FRELINGHUYSEN TOWNSHIP	201	32	3B	MULLER, CHARLES JR & FRANCES	42.32	29.27	69.2	25.67	60.7
FRELINGHUYSEN TOWNSHIP	1601	19.01	3A	SLASKI, WITOLD & LOIS	27.15	24.24	89.3	19.34	71.2
FRELINGHUYSEN TOWNSHIP	1601	19.04	3B	KLEBER, RICHARD & BRENDA	7.14	6.42	89.8	6.93	97.0
FRELINGHUYSEN TOWNSHIP	1401	9	3A	PEACEFUL VALLEY FARMS LLC	53.37	25.80	48.3	35.46	66.4
FRELINGHUYSEN TOWNSHIP	102	6.02	3A	O'NEILL, ROBERT & PATRICIA	9.63	8.25	85.7	6.26	65.0
FRELINGHUYSEN TOWNSHIP	1301	15.06	3B	STAUFENBERGER, MICHAEL & ALEXANDER	2.92	2.92	100.0	2.91	99.7
FRELINGHUYSEN TOWNSHIP	1301	15.05	3B	STAUFENBERGER, MICHAEL & ALEXANDER	2.84	2.68	94.6	2.83	99.7
GREENWICH TOWNSHIP	44	5	3B	SCHUSTER, JOSEPH E & BETTY M	54.15	54.15	100.0	53.88	99.5

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

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					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
GREENWICH TOWNSHIP	31	12	3A	GREENWICH 78 ASSOCIATES, LLC	71.05	50.80	71.5	48.73	68.6
GREENWICH TOWNSHIP	41	5	3A	SLACK, DAVID S	121.34	80.38	66.2	68.91	56.8
GREENWICH TOWNSHIP	40	2	3B	JAYNE INVESTMENT GROUP	31.98	23.25	72.7	21.79	68.1
GREENWICH TOWNSHIP	26	30	3A	WISE, ELIZABETH & JAMES CLINE	123.58	119.27	96.5	116.90	94.6
GREENWICH TOWNSHIP	18	3	3A	O DOWDS INC.	78.89	78.89	100.0	77.18	97.8
GREENWICH TOWNSHIP	5	2	3B	AMEY, JOHN H. JR. ROBT. AMEY, ELLEN	34.83	34.83	100.0	33.89	97.3
GREENWICH TOWNSHIP	25	1.01	3B	HAJDU, LOUIS	22.50	21.48	95.4	22.34	99.3
GREENWICH TOWNSHIP	20	7	3A	OBERLY, CLIFFORD & MARGARET	129.08	112.02	86.8	98.37	76.2
GREENWICH TOWNSHIP	14	11	3A	PFEIFFER, TAMMY L	13.06	13.06	100.0	12.82	98.2
GREENWICH TOWNSHIP	20	5	3A	FARAONE, MICHAEL J & DIANE M	15.16	15.16	100.0	14.02	92.5
GREENWICH TOWNSHIP	23	8	3A	ASHTON, CAROLINE T	68.17	55.22	81.0	55.80	81.9
GREENWICH TOWNSHIP	16	6	3A	O DOWDS INC	112.28	112.28	100.0	109.52	97.5
GREENWICH TOWNSHIP	33	1	3A	SANDERS,BUZZARD, BAXTER % DOWLING	20.18	13.01	64.5	19.22	95.2
GREENWICH TOWNSHIP	36	1	3A	VOORHEES, WM & GEORGENE	25.10	25.10	100.0	24.66	98.2
GREENWICH TOWNSHIP	20	6	3B	OBERLY, CLIFFORD & MARG	39.52	29.50	74.6	31.79	80.4
GREENWICH TOWNSHIP	17	1	3B	O'DOWDS INC	32.96	32.96	100.0	32.74	99.3
GREENWICH TOWNSHIP	17	2	3B	O'DOWD, BRIAN	46.23	46.23	100.0	45.83	99.1
GREENWICH TOWNSHIP	25	1	3B	SANTINI, ROBERT A & SHARON	5.84	4.90	83.9	5.84	100.0
GREENWICH TOWNSHIP	26	40	3B	BEATTY, JOHN H & CAROL A	4.56	4.56	100.0	4.51	98.9
GREENWICH TOWNSHIP	20	18	3A	HAMLEN, BARBARA A, THE ESTATE OF	88.50	81.98	92.6	71.33	80.6
GREENWICH TOWNSHIP	19	1	3B	O'DOWDS INC	10.95	10.95	100.0	10.95	100.0
GREENWICH TOWNSHIP	26	31	3B	BEATTY, JOHN H & CAROL A	68.13	68.13	100.0	68.00	99.8
GREENWICH TOWNSHIP	36	1.02	3A	VOORHEES, WILLIAM & GEORGENE	9.87	9.87	100.0	7.09	71.8
GREENWICH TOWNSHIP	14	2	3B	SORENSEN, GARY R & CHRISTINE A	13.97	13.97	100.0	12.84	91.9
GREENWICH TOWNSHIP	26	29	3A	HOSER, KENNETH	107.78	106.06	98.4	107.48	99.7
GREENWICH TOWNSHIP	20	22	3B	HOSER, KENNETH	10.62	10.18	95.8	9.72	91.6
GREENWICH TOWNSHIP	34	11	3B	BEATTY, JOHN H & CAROL A	51.88	41.48	80.0	35.14	67.7
GREENWICH TOWNSHIP	20	2	3B	O'DOWDS INC	19.62	18.60	94.8	13.99	71.3
GREENWICH TOWNSHIP	20	27	3A	MAHONY, PATRICK J & SARAH E	78.17	71.71	91.7	68.83	88.0
GREENWICH TOWNSHIP	26	33	3B	MILLBURN-78 ASSOCIATES % MILLSTEIN	94.20	94.20	100.0	93.87	99.7
HARDWICK TOWNSHIP	1202	1	3A	MAFFENBEIER, JOHN	56.98	39.32	69.0	33.61	59.0

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
HARMONY TOWNSHIP	21	34.03	3B	POTTER, DIANA	6.11	6.11	100.0	6.11	100.0
HARMONY TOWNSHIP	31	8	3B	GEIGER, MARK H	89.32	88.86	99.5	69.48	77.8
HARMONY TOWNSHIP	7	14.01	3A	MACOMBER, JAMES K.	19.69	18.00	91.4	17.27	87.7
HARMONY TOWNSHIP	20	8.03	3B	WRIGHT, JAMES J & JOYCE A	26.02	23.25	89.4	18.53	71.2
HARDWICK TOWNSHIP	1103	3.10	3B	WIESING, THERESIA	1.17	1.17	100.0	1.00	85.8
HARDWICK TOWNSHIP	901	6.05	3A	SKIPPER, ADAM C & SUSAN C	5.21	4.48	86.1	4.00	76.9
HARDWICK TOWNSHIP	902	7	3A	HARDWICK PROPERTIES LLC	54.42	30.17	55.4	28.00	51.4
HARDWICK TOWNSHIP	1202	11	3B	PAANS, ROBERT & MARY JANE	9.01	6.59	73.1	7.17	79.6
HARDWICK TOWNSHIP	1004	4	3A	RISO, ALFRED J & MADELYN A	7.86	5.26	67.0	5.08	64.7
HARDWICK TOWNSHIP	201	12.02	3B	GRANDIN, FREDERICK L	3.97	3.87	97.4	3.91	98.5
HARMONY TOWNSHIP	37	5	3A	DUIT, NATALIE O	59.68	59.68	100.0	56.80	95.2
HARMONY TOWNSHIP	25	17	3A	YOUNG, ROBERT A & KAREN R	12.55	8.17	65.1	7.80	62.1
HARMONY TOWNSHIP	16	1	3B	EASTVIEW FARM, LLC	5.73	5.44	95.1	5.14	89.7
HARDWICK TOWNSHIP	201	12.01	3A	GRANDIN, FREDERICK L	13.41	11.64	86.8	10.77	80.3
HARDWICK TOWNSHIP	501	1.03	3A	CACAVALLE, GEORGE & DENISE	11.60	11.60	100.0	9.86	85.0
HARDWICK TOWNSHIP	1004	6.07	3A	DENGLER, ROXANNE	18.13	14.31	78.9	11.83	65.3
HARDWICK TOWNSHIP	1202	2.02	3B	CACCIAPAGLIA, MICHELE & ANGELA	3.47	3.17	91.3	3.19	91.9
HARDWICK TOWNSHIP	1004	6.01	3A	FULLER, THOMAS M & SUSAN J	27.90	19.05	68.3	18.06	64.7
HARDWICK TOWNSHIP	1003	6.01	3B	BUCK HILL INC	23.98	13.73	57.3	13.24	55.2
HARDWICK TOWNSHIP	901	8.08	3B	HOLYOAK, ANDREW R & SHARON A	3.05	2.85	93.5	3.05	100.0
HARDWICK TOWNSHIP	303	1.05	3B	DANCA, NANCY A	11.55	7.13	61.7	10.17	88.1
HARDWICK TOWNSHIP	901	2	3B	MAFFENBEIER, JOHN	61.76	34.16	55.3	44.75	72.5
HARMONY TOWNSHIP	21	33	3A	DUCKWORTH, DONALD N & ELSIE	116.71	67.35	57.7	85.87	73.6
HARMONY TOWNSHIP	4	2	3A	CALAFORE, HENRIETTA M	42.86	42.86	100.0	40.60	94.7
HARMONY TOWNSHIP	9	57	4A	MERRILL CRK RES C/O PROJ DIRECT	99.23	50.87	51.3	44.92	45.3
HARMONY TOWNSHIP	21	34.04	3B	HAYDU, JOSEPH D	7.03	7.03	100.0	7.03	100.0
HARMONY TOWNSHIP	31	8.10	3B	WARREN COUNTY FARMER'S FAIR ASSOC	8.29	8.29	100.0	8.29	100.0
HARMONY TOWNSHIP	44	5	3B	PETRILAK, STEPHEN & JOHN	10.75	9.01	83.8	10.37	96.4
HARMONY TOWNSHIP	38	4	3A	MERRILL CRK RES C/O PROJ DIRECT	61.63	51.02	82.8	26.23	42.6
HARMONY TOWNSHIP	33	58	3B	YEAGER, GARY W & CATHY, S	10.66	10.66	100.0	9.97	93.5
HARMONY TOWNSHIP	35	8	3B	NICOLOSI, DOMINIC AND ROBERT	22.68	22.68	100.0	21.94	96.7

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
HARMONY TOWNSHIP	26	43.05	3B	ROSS, ANDREW & LYANDRA	21.04	20.66	98.2	17.37	82.6
HARMONY TOWNSHIP	9	17.01	3A	O'NEIL JAMES C & JOANN L	18.00	13.13	73.0	10.52	58.4
HARMONY TOWNSHIP	7	3	3A	LAUBACH, R. GERALD & MICHELLE	10.96	10.04	91.6	8.10	73.9
HARMONY TOWNSHIP	37	3	3A	PETRILAK, STEPHEN & JOHN	46.20	46.20	100.0	45.04	97.5
HARMONY TOWNSHIP	21	34.07	3B	HAYDU, JOSEPH D	5.89	5.88	99.8	5.89	100.0
HARMONY TOWNSHIP	19	2	3B	SCHOENWOOD FARMS, LLC	17.99	14.20	79.0	9.73	54.1
HARMONY TOWNSHIP	34	16	3A	KINNEY, EDGAR & JOANN	126.97	126.97	100.0	119.36	94.0
HARMONY TOWNSHIP	18	7.01	3B	KOBER, WILLIAM & BARBARA	6.72	6.72	100.0	5.66	84.3
HARMONY TOWNSHIP	45	1	3B	SHANDOR, WILLIAM	15.86	15.86	100.0	11.93	75.2
HARMONY TOWNSHIP	44	23	3B	DC PARTNERS, L.P.	76.70	76.70	100.0	59.00	76.9
HARMONY TOWNSHIP	9	53	15C	ST OF NJ DEPT OF ENVIRON PROTECTION	118.41	50.65	42.8	48.12	40.6
HARMONY TOWNSHIP	21	35	3B	HARITON, ANNA GEORGIA	17.58	17.57	99.9	8.79	50.0
HARMONY TOWNSHIP	45	26	3B	HEERES, HAROLD	65.41	51.41	78.6	48.33	73.9
HARMONY TOWNSHIP	9	54	3B	STEELE, ELEANOR	13.87	8.92	64.3	7.88	56.8
HARMONY TOWNSHIP	33	25.05	3A	HNOT, WALTER R.	43.54	23.75	54.6	23.61	54.2
HARMONY TOWNSHIP	15	1	3B	EASTVIEW FARM, LLC	0.80	0.80	100.0	0.62	77.6
HARMONY TOWNSHIP	38	2	3A	GARRISON, ROY C & BRENDA	135.44	135.44	100.0	131.56	97.1
HARMONY TOWNSHIP	12	26	3B	WALL, NORBERT F & DREW A RICCO	23.89	23.81	99.7	19.97	83.6
HARMONY TOWNSHIP	21	34.08	3B	HAYDU, STEVEN C	5.66	5.66	100.0	5.49	97.0
HARMONY TOWNSHIP	14	9	3A	SMITH, JOHN H. & JEAN M.	109.34	71.14	65.1	57.23	52.3
HARMONY TOWNSHIP	45	2	3B	DENJOE INVESTMENT CO	66.16	62.23	94.1	50.97	77.0
HARMONY TOWNSHIP	34	5.01	3B	KARP, THOMAS & NANCY	22.72	22.31	98.2	20.67	90.9
HARMONY TOWNSHIP	47	20	3B	PIPERATA, ANTHONY & MURIEL	13.80	13.60	98.5	10.98	79.5
HARMONY TOWNSHIP	4	3	3A	HARTUNG, RICHARD STUART & IRENE	31.47	31.47	100.0	31.04	98.6
HARMONY TOWNSHIP	7	14	3A	HARMONY SAND & GRAVEL	159.77	134.72	84.3	85.40	53.5
HARMONY TOWNSHIP	20	8	3B	WRIGHT, JOYCE A	6.77	6.77	100.0	6.19	91.4
HARMONY TOWNSHIP	21	43	3B	DALRYMPLE, DANIEL W & STACY L	8.31	5.38	64.7	5.98	72.0
HARMONY TOWNSHIP	38	25	3A	GARRISON, EDNA	91.94	84.32	91.7	89.24	97.1
HARMONY TOWNSHIP	44	15	3A	SHANDOR, WILLIAM	70.38	70.08	99.6	63.77	90.6
HARMONY TOWNSHIP	24	2.02	3B	HOSER, ROBERT	2.85	2.85	100.0	2.85	100.0
HARMONY TOWNSHIP	20	4.01	3A	SCHANZLIN, THEODORE	27.20	19.71	72.4	22.51	82.7

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
HARMONY TOWNSHIP	24	1.10	3B	WRIGHT, JAMES J & JOYCE A	3.01	3.01	100.0	2.87	95.3
HARMONY TOWNSHIP	20	4	3B	SCHANZLIN, DONALD	84.28	32.23	38.2	52.54	62.3
HARMONY TOWNSHIP	43	26	3B	PETRILAK, STEPHEN & JOHN	19.69	19.69	100.0	19.20	97.5
HOPE TOWNSHIP	1200	2304	3B	CERAMI, CHARLES & BEATRICE	17.41	13.00	74.6	15.58	89.5
HARMONY TOWNSHIP	44	8	3B	LUCIANO, ROBERT A & LORRAINE	9.35	9.35	100.0	9.35	100.0
HARMONY TOWNSHIP	17	17	3A	BENBROOK, KEVIN P & RATH SEGLINDA	17.58	11.36	64.6	8.96	51.0
HARMONY TOWNSHIP	34	4.02	3A	KENYON, CAMILLE ANN	7.08	6.83	96.4	5.58	78.8
HARMONY TOWNSHIP	26	34	3B	DIOCESE OF METUCHEN	9.66	9.40	97.3	8.99	93.0
HARMONY TOWNSHIP	7	13	3B	HARMONY SAND & GRAVEL, INC	30.69	24.96	81.3	18.51	60.3
HARMONY TOWNSHIP	20	8.02	3A	WOOLVERTON DEWITT	11.50	11.50	100.0	8.53	74.2
HARMONY TOWNSHIP	4	1	3B	CLINE, LORRAINE	18.98	18.98	100.0	18.85	99.3
HARMONY TOWNSHIP	13	1.03	3B	JONES, GEORGE D & JANET B	6.07	6.07	100.0	5.34	88.1
HARMONY TOWNSHIP	7	1	3A	HARTUNG, RICHARD STUART & IRENE	151.46	150.05	99.1	108.80	71.8
HARMONY TOWNSHIP	33	11	3B	CALVIN, NEIL R.	10.41	8.17	78.5	5.66	54.4
HARMONY TOWNSHIP	44	10	3A	DC PARTNERS, L.P.	155.99	155.24	99.5	143.69	92.1
HARMONY TOWNSHIP	13	5	3A	DUCKWORTH, ROBERT R	72.64	69.59	95.8	68.82	94.7
HARMONY TOWNSHIP	37	7	3A	BREHM, DOUGLAS C & LAUREN M	9.69	9.69	100.0	8.72	90.0
HARMONY TOWNSHIP	18	7	3B	KOBER,WM,BARBARA,GABRIEL L & MARIAN	36.33	35.95	99.0	24.41	67.2
HARMONY TOWNSHIP	8	14	3A	HUMMER, RICHARD L JR.	18.31	18.11	98.9	9.96	54.4
HARMONY TOWNSHIP	37	17	3B	SMITH, DONALD & RICHARD	52.07	50.44	96.9	46.77	89.8
HARMONY TOWNSHIP	44	25	3A	HASCHAK STEVE	13.61	13.61	100.0	12.00	88.2
HARMONY TOWNSHIP	12	13	3B	DUCKWORTH, ROBERT R	26.52	25.84	97.5	24.45	92.2
HARMONY TOWNSHIP	7	11	3B	HARMONY SAND & GRAVEL INC	47.03	40.61	86.3	42.68	90.8
HARMONY TOWNSHIP	34	4	3B	JANSEN, PETER C & HEATHER A	86.54	85.68	99.0	73.46	84.9
HARMONY TOWNSHIP	26	28	3A	SALTER, JOHN R	127.80	98.84	77.3	99.53	77.9
HARMONY TOWNSHIP	46	2	3B	SHANDOR, DOROTHY L & RIDDLE, JUDY A	102.60	93.97	91.6	89.84	87.6
HARMONY TOWNSHIP	31	7	3B	MCCANN, JOHN J & BRIDGETTE	27.00	25.75	95.4	25.67	95.0
HARMONY TOWNSHIP	46	3	3B	SHANDOR, WILLIAM	39.53	39.53	100.0	38.23	96.7
HARMONY TOWNSHIP	25	19	3B	SALTER, JOHN R	34.99	28.31	80.9	24.31	69.5
HARMONY TOWNSHIP	17	12	3B	KRISTOFFERSEN, DAN V & BONNIE F	6.37	6.20	97.4	5.14	80.7
HARMONY TOWNSHIP	9	51.01	3B	BURKE, DANA R & BARBARA DINSMORE	78.80	29.80	37.8	26.72	33.9

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
HARMONY TOWNSHIP	21	34.01	3B	HAYDU, JOSEPH D	5.40	4.95	91.7	4.74	87.8
HARMONY TOWNSHIP	44	11.01	3B	VEGH, ERMA L	3.07	3.07	100.0	3.07	100.0
HARMONY TOWNSHIP	44	11.03	3B	VEGH, JOANNA, S & SOWICZ, EUGENIA	2.89	2.89	100.0	2.89	100.0
HARMONY TOWNSHIP	44	11.02	3B	VEGH, JOANNA	2.42	2.42	100.0	2.42	100.0
HOPE TOWNSHIP	200	400	3A	P MUSGRAVE & M VANKIRK D/B/A P&M	227.93	120.42	52.8	164.66	72.2
HOPE TOWNSHIP	800	1102	3B	RUSS, DONALD E & EMILY E	10.78	10.78	100.0	10.78	100.0
HOPE TOWNSHIP	300	101	3B	PROFESSIONAL CUSTOM BUILDERS, INC	0.91	0.91	100.0	0.91	100.0
HOPE TOWNSHIP	600	1000	3A	SMITH, PAUL G.	110.10	36.75	33.4	32.01	29.1
HOPE TOWNSHIP	3400	2200	3B	CHAMBERLAIN,LELAND & MARION LOUISE	12.93	12.93	100.0	10.66	82.4
HOPE TOWNSHIP	1100	1902	3B	MALON HOWARD	6.14	4.65	75.7	5.71	93.1
HOPE TOWNSHIP	1100	1100	3A	SKIRTIN, E ESTATE C/O ZIARNOWSKI, T	70.76	57.70	81.5	33.98	48.0
HOPE TOWNSHIP	5300	200	3B	BODOLSKY, THOMAS	55.88	31.37	56.1	28.02	50.1
HOPE TOWNSHIP	4000	300	3A	DE PIETRO ANN	21.38	15.16	70.9	11.86	55.5
HOPE TOWNSHIP	1100	500	3A	MAY, ROBERT C & DIANE L	37.01	30.54	82.5	21.96	59.3
HOPE TOWNSHIP	100	900	3A	BELSTRA, ROBERT	165.58	39.59	23.9	95.84	57.9
HOPE TOWNSHIP	300	100	3B	ZOON, EDWARD M	6.55	5.90	90.1	6.24	95.2
HOPE TOWNSHIP	200	302	3A	BERGHAHN, FRED W	1.41	1.41	100.0	1.41	100.0
HOPE TOWNSHIP	200	303	3B	BERGHAHN, PATRICIA H	1.04	1.04	100.0	1.04	100.0
HOPE TOWNSHIP	200	301	3B	BERGHAHN, FRED W	14.02	12.30	87.7	11.84	84.4
HOPE TOWNSHIP	200	300	3A	MATARAZZO, ROBERT J & LAURA R	70.05	60.25	86.0	48.78	69.6
HOPE TOWNSHIP	1000	2800	3A	FARIS, LABIB F & PAMELA L	7.03	6.32	89.9	5.07	72.1
HOPE TOWNSHIP	1600	1300	3A	LO PRESTI, ARTHUR	238.55	92.68	38.9	87.01	36.5
INDEPENDENCE TOWNSHIP	29	25	3A	PRYSLAK FARMS	89.30	49.19	55.1	88.64	99.3
HOPE TOWNSHIP	3400	1900	3A	CHAMBERLAIN, LELAND & MARION	45.01	34.51	76.7	38.69	85.9
HOPE TOWNSHIP	5200	702	3A	BURKE, BRADLEY A	33.16	19.99	60.3	21.52	64.9
HOPE TOWNSHIP	2900	100	3B	CHAMBERLAIN, LELAND & MARION	26.89	15.29	56.9	15.47	57.5
HOPE TOWNSHIP	5200	1100	3A	CAMPBELL FOUNDRY CO.	174.10	61.43	35.3	87.29	50.1
HOPE TOWNSHIP	1200	1300	3A	PLEASANTVALLEY FARMS C/O G.LOPRESTI	95.29	33.66	35.3	37.44	39.3
HOPE TOWNSHIP	1100	1900	3B	MALON GABRIELE ETALS	64.26	26.05	40.5	36.09	56.2
HOPE TOWNSHIP	1100	301	3B	1253 HOPE-BRIDGEVILLE C/O J MACKOFF	40.51	39.42	97.3	39.02	96.3
HOPE TOWNSHIP	700	900	3B	1988 MODI LIVING TRUST	42.78	23.87	55.8	21.83	51.0

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
HOPE TOWNSHIP	3400	400	3B	MANLEY OTTO C/O ROBERT ORENS	92.64	32.03	34.6	52.82	57.0
HOPE TOWNSHIP	100	1202	3B	PLANER, MICHAEL R & JENNIFER A	6.98	5.43	77.8	5.60	80.2
HOPE TOWNSHIP	100	1200	3A	PLANER, AUDREY & THOMAS	29.93	15.37	51.3	29.24	97.7
HOPE TOWNSHIP	5400	400	3A	CAMPGAW CLUB L L C C/O D SCHWARTZ	15.06	12.43	82.5	7.77	51.6
HOPE TOWNSHIP	800	1200	3A	BARDON-GOODBODY FARM CO	187.31	129.16	69.0	105.50	56.3
INDEPENDENCE TOWNSHIP	10	5	3A	DEMAREST, ARTHUR & FREDERIKA	17.21	13.89	80.7	10.33	60.0
KNOWLTON TOWNSHIP	47	12	3A	DECLERCQ, STEFANI	9.61	5.37	55.9	5.17	53.8
KNOWLTON TOWNSHIP	62	3	3A	ROGERS, RICHARD D	124.64	91.25	73.2	86.10	69.1
HOPE TOWNSHIP	800	100	3A	SOSNOVIK, EDWARD W.	67.45	61.46	91.1	62.08	92.0
INDEPENDENCE TOWNSHIP	25	2	3A	YEE, CHIU LUING	16.97	16.97	100.0	9.80	57.8
INDEPENDENCE TOWNSHIP	28	44	3A	GODLEWSKY, GENEVIEVE	5.39	5.39	100.0	5.39	100.0
INDEPENDENCE TOWNSHIP	28	43	3A	KIRDZIK, JOHN E. & JULIA	8.03	7.32	91.2	8.03	100.0
INDEPENDENCE TOWNSHIP	24	1	3B	DANYLUK, HELEN C/O BARLAK JOHN	4.31	4.31	100.0	3.39	78.8
INDEPENDENCE TOWNSHIP	28	45	3B	GODLEWSKY, GENEVIEVE	4.67	4.67	100.0	4.67	100.0
INDEPENDENCE TOWNSHIP	29	2	3B	BOLZAN, RAYMOND JR.	19.27	19.17	99.5	19.27	100.0
INDEPENDENCE TOWNSHIP	10	7	3A	SLOCUM, MICHAEL / KOVACS, SYLVIA	9.12	5.28	57.9	6.83	74.9
INDEPENDENCE TOWNSHIP	28	49	3B	PENKOL, VICTOR J.	1.16	1.16	100.0	1.16	100.0
INDEPENDENCE TOWNSHIP	28	50	3B	TRZECIAKIEWICZ, EDWARD & ANNA	1.97	1.97	100.0	1.97	100.0
INDEPENDENCE TOWNSHIP	28	30	3A	PRYSLAK FARMS	16.06	12.36	76.9	16.06	100.0
INDEPENDENCE TOWNSHIP	29	27	3A	GREAT MEADOWS ASSOCIATES	287.72	150.80	52.4	251.46	87.4
INDEPENDENCE TOWNSHIP	11	1.17	3B	BACH'S DRUG STORE	5.64	4.88	86.5	5.10	90.5
KNOWLTON TOWNSHIP	72	1.03	3B	KNOWLTON RIVERSIDE ESTATES INC	35.58	35.03	98.5	31.52	88.6
KNOWLTON TOWNSHIP	70	5.04	3B	ALVERRA CONCEPTS	7.95	7.95	100.0	7.16	90.1
KNOWLTON TOWNSHIP	70	5.03	3B	ALVERRA CONCEPTS INC	8.80	7.85	89.2	7.82	88.9
KNOWLTON TOWNSHIP	70	5	3A	ALVERRA CONCEPTS INC	43.95	38.83	88.3	40.92	93.1
KNOWLTON TOWNSHIP	12	2	3B	DUSHAJ, SHKENDIJE	16.98	11.97	70.5	13.03	76.8
BLAIRSTOWN TOWNSHIP	1802	12.03	3B	YOUNG, GEORGE B & ARLENE S	1.87	1.87	100.0	1.87	100.0
BLAIRSTOWN TOWNSHIP	2203	3.06	3B	ZUKOSKI, THOMAS & ELIZABETH	3.88	3.88	100.0	3.82	98.4
BLAIRSTOWN TOWNSHIP	2203	3.01	3A	ZUKOSKI, GEORGE	11.71	11.71	100.0	10.02	85.6
BLAIRSTOWN TOWNSHIP	2003	13	3B	JEAN KENT INCOME ONLY TRUST	9.62	8.86	92.1	9.61	99.9
BLAIRSTOWN TOWNSHIP	1901	41	3B	SCHEER, HENRY C III & FLORENCE C	46.97	39.65	84.4	42.66	90.8

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
BLAIRSTOWN TOWNSHIP	2203	7.12	3B	ROSZKOWSKI, JOSEPH & MARY	8.19	8.07	98.5	6.03	73.7
BLAIRSTOWN TOWNSHIP	2003	14	3B	TOLL LAND IV LIMITED PARTNERSHIP	1.87	1.86	99.5	4.76	100.0
FRANKLIN TOWNSHIP	58	1	3B	TOBIAS, BARRY & BERLANT, KAREN E	110.71	110.05	99.4	104.74	94.6
FRANKLIN TOWNSHIP	48	4.04	3A	FALCIANI, FRANK W & SHARON L	10.20	9.92	97.2	7.22	70.7
FRANKLIN TOWNSHIP	62	3	3B	HERITAGE, MAUREEN	9.48	8.61	90.9	7.67	81.0
FRANKLIN TOWNSHIP	60	1	3A	FUSCO, LIBERO & ANNA	19.95	17.81	89.3	11.64	58.4
FRANKLIN TOWNSHIP	60	1.08	3B	FUSCO, LIBERO & ANNA	1.71	1.71	100.0	1.65	96.7
FRANKLIN TOWNSHIP	48	4	3B	SCHNETZER, ARNOLD P	61.48	45.95	74.7	57.97	94.3
FRANKLIN TOWNSHIP	51	19	3B	DEMMERST, EMMA L	16.12	16.12	100.0	13.35	82.8
FRANKLIN TOWNSHIP	18	1	3A	SMITH, MIRIAM E.	17.72	16.58	93.5	15.90	89.7
FRANKLIN TOWNSHIP	27	4	3B	ISE AMERICA	33.90	33.90	100.0	32.29	95.2
FRANKLIN TOWNSHIP	7	11	3A	DEMASI, JOSEPH V % J SCOTT DEMASI	9.40	9.40	100.0	8.02	85.3
FRANKLIN TOWNSHIP	16.01	10.02	3A	LACEY, RICHARD C & DELORES L	5.48	5.41	98.8	4.44	81.1
FRANKLIN TOWNSHIP	9	23	3A	SIGLER, CARL W & BARBARA J	166.75	99.52	59.7	105.67	63.4
FRANKLIN TOWNSHIP	39	6	3B	DOSTER, DEAN & PEGGY SUE	6.86	6.86	100.0	5.58	81.3
FRANKLIN TOWNSHIP	16.01	10.08	3B	LACKLAND & LACKLAND	8.04	8.04	100.0	7.93	98.6
FRANKLIN TOWNSHIP	7	14.03	3B	BARCELLONA, GAFTANO & MARIA	13.00	13.00	100.0	13.00	100.0
FRANKLIN TOWNSHIP	51	4	3B	R L L ENTERPRISES, INC	50.47	41.36	82.0	38.87	77.0
FRANKLIN TOWNSHIP	57	31.03	3A	VANSADERS, JOHN G & MARYANNE	11.24	11.24	100.0	10.74	95.5
FRELINGHUYSEN TOWNSHIP	1201	5.07	3B	WALLACE, RICHARD G & ESTHER M	7.96	7.96	100.0	5.78	72.6
FRELINGHUYSEN TOWNSHIP	601	1.01	3A	KLINE, EMILY	28.23	17.69	62.7	15.02	53.2
FRELINGHUYSEN TOWNSHIP	1601	19.03	3B	KLEBER, RICHARD & BRENDA	2.21	2.21	100.0	2.21	100.0
INDEPENDENCE TOWNSHIP	21	20.02	3A	MANHIRE, DOUGLAS R. & SUSAN J.	23.94	14.25	59.5	13.07	54.6
INDEPENDENCE TOWNSHIP	28	20	3A	MCCLOSKEY, ANNE	121.33	46.84	38.6	52.83	43.5
INDEPENDENCE TOWNSHIP	29	4	3A	PIASECKI, ALBERTA L.	14.39	10.83	75.3	13.30	92.4
INDEPENDENCE TOWNSHIP	21	16	3A	DONCHESKI, DEMETRIUS M. & ANNA M.	29.35	23.89	81.4	27.38	93.3
INDEPENDENCE TOWNSHIP	29	51	3B	KELSEY, JAMES C. V	397.08	119.92	30.2	48.73	12.3
INDEPENDENCE TOWNSHIP	29	26	3B	KOWALICK, CATHERINE	382.34	136.85	35.8	35.18	9.2
INDEPENDENCE TOWNSHIP	23	1	3B	BARTON, JOHN M	21.56	19.18	89.0	20.67	95.9
INDEPENDENCE TOWNSHIP	22	49	3B	DANYLUK, HELEN C/O BARLAK JOHN	52.76	52.74	100.0	44.64	84.6
INDEPENDENCE TOWNSHIP	28	47	3A	GODLEWSKY, GENEVIEVE	7.64	7.64	100.0	7.64	100.0

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
INDEPENDENCE TOWNSHIP	28	46	3B	GODLEWSKY, GENEVIEVE	5.66	5.66	100.0	5.66	100.0
INDEPENDENCE TOWNSHIP	17	56	3B	GRECO, CARMEN	19.56	13.85	70.8	12.88	65.8
INDEPENDENCE TOWNSHIP	10	7.03	3B	PYSKATY, JOSEPH & THERESA A.	9.72	6.78	69.7	5.66	58.2
KNOWLTON TOWNSHIP	63	2	3B	LOCUST VALLEY C/O JOHN DENEUFVILLE	20.04	17.82	88.9	10.17	50.7
KNOWLTON TOWNSHIP	34	25.01	3B	RING, STUART M MD	15.67	10.46	66.8	8.05	51.4
KNOWLTON TOWNSHIP	62	6	3B	ROGERS, RICHARD D	18.43	9.76	53.0	18.37	99.7
INDEPENDENCE TOWNSHIP	28	54	3A	TRZECIAKIEWICZ, EDWARD & ANNA	11.20	5.68	50.7	11.20	100.0
INDEPENDENCE TOWNSHIP	23	2.02	3B	CARANT LIMITED PARTNERSHIP	2.93	2.93	100.0	2.25	76.5
INDEPENDENCE TOWNSHIP	14	14	3B	PIO COSTA, ROSALIND/TRUST	11.51	11.46	99.6	10.01	87.0
FRELINGHUYSEN TOWNSHIP	102	1	3A	HANULA, JOSEPH D	13.45	9.95	73.9	9.81	72.9
FRELINGHUYSEN TOWNSHIP	1302	3.03	3A	ALVARADO, FIDEL D & ANA M	16.67	12.47	74.8	8.66	51.9
GREENWICH TOWNSHIP	44	4	3A	TIR NA NOG FARM, LLC	50.34	50.34	100.0	27.56	54.7
GREENWICH TOWNSHIP	40	1.01	3B	PNC BANK NA % PNC REALTY SERVICES	4.90	4.90	100.0	4.69	95.7
GREENWICH TOWNSHIP	15	2	3B	NORTH CENTRAL REALCO, INC	29.36	29.36	100.0	29.00	98.8
FRELINGHUYSEN TOWNSHIP	801	9.05	3B	LEIBOWITZ, ROY M & ANNETTE SACKS	3.18	3.00	94.4	2.88	90.7
FRELINGHUYSEN TOWNSHIP	104	11.03	3B	KATTERMANN, ARNOLD J	4.39	4.16	94.8	4.39	100.0
FRELINGHUYSEN TOWNSHIP	103	6	3A	DICRISTINA, VITO G & VALERIE C	72.81	35.65	49.0	35.75	49.1
FRELINGHUYSEN TOWNSHIP	902	1	3A	KORNBLUH, GARY & ANNE	19.03	14.35	75.4	11.40	59.9
FRELINGHUYSEN TOWNSHIP	301	6	3A	MURPHY, RICHARD	264.67	85.24	32.2	106.61	40.3
GREENWICH TOWNSHIP	41.02	11.01	3A	JOHNSON, ELIZABETH	9.60	9.60	100.0	9.53	99.2
GREENWICH TOWNSHIP	44	26	3A	TIR NA NOG FARM, LLC	43.48	24.84	57.1	36.03	82.9
GREENWICH TOWNSHIP	44	29	3B	MATUCH, WALTER M & MARY SUSAN	2.13	2.13	100.0	1.67	78.4
GREENWICH TOWNSHIP	44	1	3A	JOHNSON, ELIZABETH	5.51	5.51	100.0	4.77	86.6
GREENWICH TOWNSHIP	31	1	3B	GREENBRIAR ASSOC, C/O N C LYMAN	105.53	102.94	97.5	100.62	95.3
HARMONY TOWNSHIP	44	21.02	4A	MALLINCKRODT BAKER INC	82.21	82.21	100.0	62.83	76.4
HARMONY TOWNSHIP	45	24	3B	SAKELE BROTHERS CO.	10.74	9.92	92.3	6.79	63.2
HARMONY TOWNSHIP	20	5	3A	HAGGERTY, WILLIAM	55.25	47.82	86.6	34.26	62.0
HARMONY TOWNSHIP	34	21	3B	NEMETH JOSEPH,IRMA,BRADLEY & MEYER	15.54	15.54	100.0	15.54	100.0
HARMONY TOWNSHIP	44	22	3B	HASCHAK, STEVE	12.90	12.90	100.0	11.59	89.8
HARMONY TOWNSHIP	46	4.09	3B	BREESE, MARJORIE & SHARPE, MARLENE	82.21	52.54	63.9	29.39	35.7
HARMONY TOWNSHIP	21	42	3B	WATERS DARLA MAE	81.30	51.39	63.2	64.10	78.8

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
HARMONY TOWNSHIP	21	6	3A	APGAR, ALAN W	18.79	17.62	93.8	11.88	63.2
HARMONY TOWNSHIP	30	3	3B	WARREN COUNTY FARMERS FAIR	33.75	33.67	99.8	17.31	51.3
HARMONY TOWNSHIP	44	14	3A	NEMETH JOSEPH, IRMA,BRADLEY & MEYER	108.84	108.84	100.0	95.43	87.7
HARMONY TOWNSHIP	17	18.02	3B	BUNGERT, KARL F	7.76	6.98	89.9	5.24	67.5
KNOWLTON TOWNSHIP	34	18.01	3B	BOWMAN, ERLA MAE	34.01	22.92	67.4	33.97	99.9
KNOWLTON TOWNSHIP	47	4	3B	LINABERRY, C ROBERT & RUTH A	63.14	28.60	45.3	54.25	85.9
KNOWLTON TOWNSHIP	62	1.01	3A	FRANKLIN, VICTOR & WENDA	7.04	5.27	74.9	5.31	75.5
KNOWLTON TOWNSHIP	11	10	3B	NAISBY, JAMES H G	9.84	9.84	100.0	9.84	100.0
KNOWLTON TOWNSHIP	68	8.01	3B	LARNEY, EDMUND A & MICHAEL	8.72	5.71	65.5	7.02	80.6
KNOWLTON TOWNSHIP	28.01	2	3A	BRUGLER, O STANLEY	9.38	7.57	80.7	5.04	53.8
KNOWLTON TOWNSHIP	28	3	3A	LONGYHORE JR, DONALD	9.19	6.92	75.3	6.21	67.5
KNOWLTON TOWNSHIP	43.01	2	3A	SANDRIAN, ELLEN LEE C/O A DALENA	9.37	6.75	72.0	6.75	72.1
INDEPENDENCE TOWNSHIP	23	6	3B	PIO COSTA, ANTHONY III	33.28	26.12	78.5	23.87	71.7
INDEPENDENCE TOWNSHIP	23	2.01	3B	CARANT LIMITED PARTNERSHIP	20.20	18.99	94.0	17.23	85.3
INDEPENDENCE TOWNSHIP	21	11	3A	BADUINI, LOUIS & ANNE M	118.32	57.51	48.6	96.06	81.2
INDEPENDENCE TOWNSHIP	29	1	3B	WHITE, NATALIE H & JASPER	26.81	15.28	57.0	26.80	100.0
INDEPENDENCE TOWNSHIP	21	2	3A	BADUINI, LOUIS J. & ANNE M.	104.92	32.89	31.4	82.40	78.5
INDEPENDENCE TOWNSHIP	21	38	3A	PIO COSTA ENTERPRISES, LP	163.02	106.78	65.5	115.45	70.8
KNOWLTON TOWNSHIP	45	7	3B	DELORENZO, JAMES A	8.45	5.26	62.2	5.04	59.7
KNOWLTON TOWNSHIP	47	5	3A	GUARRACI PIETRO ET AL	129.40	81.84	63.2	97.63	75.4
KNOWLTON TOWNSHIP	5	16	3A	ULLMN FAMILY PARTNERSHIP LP	188.27	83.74	44.5	69.40	36.9
KNOWLTON TOWNSHIP	66	2.17	3A	MULCH, CHRISTOPHER & DIANE	15.48	13.62	88.0	9.81	63.4
KNOWLTON TOWNSHIP	41	1.02	3B	SHRAMKO, ERIC & BRENDA	6.00	5.89	98.1	5.75	95.7
KNOWLTON TOWNSHIP	44.01	14	3A	KONESNY, DONALD & BARBARA	17.77	16.21	91.2	11.58	65.2
KNOWLTON TOWNSHIP	7	9.42	3B	FAMA, GREG & LINDA	12.56	12.56	100.0	9.24	73.6
KNOWLTON TOWNSHIP	62	6.02	3B	ALTMAN, ERIC L & SHARI LEVOW	11.13	7.65	68.8	5.95	53.5
KNOWLTON TOWNSHIP	62	6.03	3A	ABEDRABBO, MICHAEL S	41.47	33.59	81.0	36.85	88.9
KNOWLTON TOWNSHIP	8	2.01	3B	FLANNAGAN, JAMES P & JANN	7.46	7.44	99.8	5.83	78.2
KNOWLTON TOWNSHIP	8	2	3A	CASSER, CLAUDIA	95.61	85.83	89.8	74.75	78.2
KNOWLTON TOWNSHIP	61	13	3B	BOND, LAURA & T PAUL	39.36	25.25	64.1	34.39	87.4
KNOWLTON TOWNSHIP	61	13.07	3B	BOND, TREVOR P	12.28	9.21	75.0	9.49	77.3

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
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KNOWLTON TOWNSHIP	61	19	3A	SCOTTO DICARLO, GUISEPPE & VERONICA	101.96	38.68	37.9	60.14	59.0
KNOWLTON TOWNSHIP	68	9	3A	DESKOVICK, GEORGE & MELANIE	146.72	89.79	61.2	34.70	23.6
KNOWLTON TOWNSHIP	62	1.15	3B	GAGLIOSTRO, DOMINICK & ANNUNZIATA	13.03	12.94	99.3	9.94	76.3
KNOWLTON TOWNSHIP	65	2.11	3B	BROWN, FORREST T & JEAN M	10.43	9.82	94.1	5.95	57.0
KNOWLTON TOWNSHIP	42	2	3B	DELUCA, JOSEPH	12.09	9.91	81.9	8.65	71.5
KNOWLTON TOWNSHIP	68	31	3B	CLIFFORD, SUSIE	75.79	52.41	69.2	63.70	84.1
KNOWLTON TOWNSHIP	44	7	3A	LONIE HR EST OF C/O RICHARD D	110.20	59.43	53.9	71.01	64.4
KNOWLTON TOWNSHIP	62	10	3B	DEAN, IRVIN W	64.82	51.37	79.2	59.06	91.1
KNOWLTON TOWNSHIP	62	5	3B	HILLYERD C/O R BLUM	3.55	3.38	95.0	3.55	100.0
KNOWLTON TOWNSHIP	10	6	3B	80/94 ASSOCIATES	15.19	12.86	84.7	13.09	86.2
KNOWLTON TOWNSHIP	7	9	3A	CONWAY, WILLIAM & ANN MARIE	22.82	22.04	96.6	12.52	54.9
KNOWLTON TOWNSHIP	61	16	3A	TODESCHINI, JEAN L	140.86	68.72	48.8	52.21	37.1
KNOWLTON TOWNSHIP	64	1.02	3B	JAMES, GEORGE A & BRENDA L	13.20	8.03	60.9	10.91	82.7
KNOWLTON TOWNSHIP	45	6	3B	DELORENZO, JAMES A	46.66	26.03	55.8	26.72	57.3
KNOWLTON TOWNSHIP	57	5	3A	MARSHALL, GEORGE W & MARION F	18.19	17.73	97.5	11.95	65.7
KNOWLTON TOWNSHIP	57	18	3B	ST OF NJ DEPT OF ENVIRON PROTECTION	2.63	2.63	100.0	2.42	92.1
LIBERTY TOWNSHIP	9	1	3A	CUMMINS, JUNE C/O CUMMINS, EDNA	52.73	29.58	56.1	40.33	76.5
LIBERTY TOWNSHIP	13	6	3B	BARTON, JOHN & CHERYL	7.97	7.97	100.0	7.42	93.1
KNOWLTON TOWNSHIP	43	1	3B	MAKAREVICH, EUGENE JR	11.21	8.05	71.8	8.45	75.3
KNOWLTON TOWNSHIP	63	1.18	3B	DE VINCENZI RAYMOND / HACILI SARAY	12.11	6.98	57.6	6.09	50.3
LIBERTY TOWNSHIP	13	6.02	3B	BARTON, JOHN & CHERYL	1.21	1.21	100.0	1.16	96.1
LIBERTY TOWNSHIP	1	24	3B	PRYSLAK, WILLIAM & JOHN	47.18	29.11	61.7	42.89	90.9
LIBERTY TOWNSHIP	9	9	3A	PASKO, EDWARD & RUDOLPH	125.08	95.89	76.7	84.04	67.2
LOPATCONG TOWNSHIP	100	7.02	4A	SANTINI, ROBERT A & SHARON	5.60	5.60	100.0	5.31	94.8
LOPATCONG TOWNSHIP	99	3.01	3B	WOEHRLE, R. EST. & LEDA DESHLER ET ALS	46.12	46.12	100.0	45.30	98.2
LOPATCONG TOWNSHIP	89	2	3A	SCHMID, OSWALD	23.23	15.49	66.7	12.08	52.0
LOPATCONG TOWNSHIP	2	5	3B	RAUB, RAYMOND L III & GAIL A	2.31	1.95	84.3	2.26	97.6
LOPATCONG TOWNSHIP	95	34	3B	WOEHRLE, R. EST & LEDA DESHLER ET ALS	5.88	5.88	100.0	5.09	86.6
LOPATCONG TOWNSHIP	95	45	3B	PIAZZA, FRANK J & SAMUEL A	34.91	34.70	99.4	34.14	97.8
LOPATCONG TOWNSHIP	94	1	3B	GOSPEL TAB OF THE CHRISTIAN MISS AL	29.18	29.18	100.0	28.16	96.5
LOPATCONG TOWNSHIP	86	66	3B	FELLOWSHIP CHURCH OF PHILLIPSBURG	25.69	25.69	100.0	21.88	85.1

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
LOPATCONG TOWNSHIP	99	6	3B	KANACH, STELLA & WOLF, RUTH	80.03	72.77	90.9	71.73	89.6
LOPATCONG TOWNSHIP	95	46	3B	PIAZZA, FRANK J & SAMUEL A	10.70	10.70	100.0	10.65	99.6
LOPATCONG TOWNSHIP	93	3	3A	REID, JAMES H & ANNE M	15.81	13.83	87.5	8.38	53.0
LOPATCONG TOWNSHIP	95	30	3A	CLINE, JOHN C/O R CLINE	110.77	96.38	87.0	101.31	91.5
LOPATCONG TOWNSHIP	100	6	3B	CARMCO, INC	15.51	15.51	100.0	14.74	95.0
LOPATCONG TOWNSHIP	100	2.01	3A	CURTIS, JOHN & CYNTHIA	46.49	39.35	84.7	38.12	82.0
LOPATCONG TOWNSHIP	94	22	3A	WAHA PARTNERS CO WALL, NORBERT	71.81	71.81	100.0	66.60	92.7
LOPATCONG TOWNSHIP	86	67	3A	FALCONE, CLIFFORD F. & E.	107.23	107.23	100.0	107.02	99.8
LOPATCONG TOWNSHIP	116	28	3A	PIAZZA, FRED J & EVA	5.56	5.56	100.0	4.25	76.4
LOPATCONG TOWNSHIP	93	15	3A	VOLK, DUANE & DIANE B	33.75	27.10	80.3	23.65	70.1
LOPATCONG TOWNSHIP	88	1.05	3B	WARREN COUNTY FARMERS FAIR ASSOC	6.56	5.82	88.6	5.91	90.0
LOPATCONG TOWNSHIP	98	3	3A	ASHTON CAROLINE T	9.30	9.30	100.0	7.33	78.8
LOPATCONG TOWNSHIP	2	6.01	3B	YEAGER, GARY W & CATHY S	1.22	1.22	100.0	1.03	84.5
LOPATCONG TOWNSHIP	2	9	3B	RAUB, RAYMOND L III & GAIL A	3.45	3.42	99.2	3.32	96.1
MANSFIELD TOWNSHIP	1301	7	3B	ANTAKI, MARCEL Z	4.79	4.79	100.0	4.78	99.8
LOPATCONG TOWNSHIP	87	1	3B	WARREN COUNTY FARMER'S FAIR ASSOC	8.65	8.65	100.0	8.46	97.8
LOPATCONG TOWNSHIP	100	6.06	3B	KOCH,WILLIAM H & HELEN B	12.72	12.72	100.0	12.72	100.0
LOPATCONG TOWNSHIP	101	1	3A	PHILLIPSBURG ASSOCIATES II, LP	95.20	85.00	89.3	91.78	96.4
LOPATCONG TOWNSHIP	116	27.02	3B	PIAZZA,FRANK & J,PIAZZA,SAMUEL & M	5.87	5.87	100.0	5.38	91.6
LOPATCONG TOWNSHIP	97	1	3A	WAHA PARTNERS/CO WALL,NORBERT	28.47	28.47	100.0	23.33	81.9
MANSFIELD TOWNSHIP	1506	1	3A	MANNON, WILLIAM & FRANCES WILLIAMS	117.69	113.40	96.4	104.82	89.1
MANSFIELD TOWNSHIP	1501	9.01	3A	ALBERT P ROSEN 2001 REVOCABLE TRUST	122.37	59.68	48.8	86.40	70.6
MANSFIELD TOWNSHIP	1301	3.02	3A	ALLEN, CARL M	9.62	9.62	100.0	8.70	90.5
MANSFIELD TOWNSHIP	1105.10	6	3B	DONALDSON FAM LIMITED PARTNERSHIP	80.43	80.43	100.0	80.43	100.0
MANSFIELD TOWNSHIP	503	2	3B	APPLEMAN, JOE	121.64	88.36	72.6	81.29	66.8
MANSFIELD TOWNSHIP	1105.10	1	3B	DONALDSON FAMILY L P	7.30	7.30	100.0	7.27	99.6
MANSFIELD TOWNSHIP	1506	3	3A	WATTLES, GURDON, C/O BESSEMER TRUST	107.11	105.05	98.1	95.64	89.3
MANSFIELD TOWNSHIP	1307	8	3A	ALLEN, ALVIN & LENORE	38.47	21.04	54.7	38.14	99.1
MANSFIELD TOWNSHIP	804.02	36	3A	KESLER, JAMES E & JAMES C	31.29	30.73	98.2	24.36	77.8
MANSFIELD TOWNSHIP	1301	3.08	3B	PILLION, MARK	9.50	9.50	100.0	9.46	99.6
MANSFIELD TOWNSHIP	1301	3.04	3B	BLAU ROAD ENTERPRISES, LLP	8.17	8.17	100.0	5.10	62.4

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
MANSFIELD TOWNSHIP	1505	1.01	3A	WATTLES,GURDON, C/O BESSEMER TRUST	70.87	59.30	83.7	58.16	82.1
MANSFIELD TOWNSHIP	502	1	3B	HANNEMA, EILE	3.53	3.47	98.3	3.52	99.7
MANSFIELD TOWNSHIP	1501	2	3A	LOGOTHETIS, P C/O PANAGIOTOU, TINA	17.16	17.16	100.0	13.12	76.4
MANSFIELD TOWNSHIP	1201	24	3A	SILLUP, MICHAEL & LORI	10.94	9.70	88.7	6.74	61.6
MANSFIELD TOWNSHIP	1506	6.01	3A	WATTLES, GURDON, C/O BESSEMER TRUST	45.72	35.06	76.7	25.79	56.4
MANSFIELD TOWNSHIP	703.02	20.01	3A	DILLON DENNIS & MANETTA BEVERLY	7.03	6.35	90.3	5.66	80.5
MANSFIELD TOWNSHIP	804.02	21.03	3B	KESLER JAMES & CAROL	30.82	22.99	74.6	25.00	81.1
MANSFIELD TOWNSHIP	1403	3	3B	WATTERS, ERVIN E & JOAN H	38.43	21.14	55.0	38.43	100.0
MANSFIELD TOWNSHIP	501	14	3A	DIRISIO, RAYMOND JR & IRMA	49.93	42.73	85.6	45.19	90.5
MANSFIELD TOWNSHIP	1402	6	3B	MAYBERRY FAMILY LP	13.97	13.97	100.0	12.16	87.0
MANSFIELD TOWNSHIP	101.01	11.06	3A	MARCHESE, JOSEPH & SARAH	5.48	5.47	99.9	4.42	80.7
MANSFIELD TOWNSHIP	1301	3.03	3B	DENMON, LINDA	15.49	15.49	100.0	15.40	99.4
MANSFIELD TOWNSHIP	1307	10	3A	HEISER, ARTHUR C JR	26.08	18.45	70.7	21.83	83.7
MANSFIELD TOWNSHIP	1201	19.01	3A	SCHWANDA DONALD	29.71	19.80	66.6	15.24	51.3
MANSFIELD TOWNSHIP	601.02	37	3A	ZIFF, LORRAINE	15.15	10.25	67.6	10.28	67.9
MANSFIELD TOWNSHIP	1206	3	3B	HAZEN, ALVERDA EST OF	8.73	8.64	98.9	8.35	95.6
OXFORD TOWNSHIP	2	9	3B	MULEA, A THOMAS & VERONICA G	4.76	4.76	100.0	3.91	82.1
MANSFIELD TOWNSHIP	502	2	3B	LESHER, ELIZABETH	0.66	0.66	100.0	0.57	86.6
MANSFIELD TOWNSHIP	1301	3.01	3A	STYMACKS SHARON	14.85	14.60	98.3	13.65	91.9
MANSFIELD TOWNSHIP	1105.10	8	3B	DONALDSON FAMILY L P	104.18	95.34	91.5	94.01	90.2
MANSFIELD TOWNSHIP	102	4.01	3B	BARTON, JOHN & CHERYL	19.56	19.56	100.0	19.43	99.3
MANSFIELD TOWNSHIP	1204	11	3A	MAZZACCHI,M JR & D / RICH,P JR & T	15.13	15.13	100.0	11.51	76.1
MANSFIELD TOWNSHIP	804.02	21.02	3B	KESLER CAROL M	13.41	8.75	65.2	13.41	99.9
MANSFIELD TOWNSHIP	501	3	3B	EXPLORAG, C\O CARL GENSIB ESQ	220.83	152.72	69.2	115.15	52.1
OXFORD TOWNSHIP	26	55.03	3A	BRANDS, BRENT S	4.67	4.63	99.2	3.96	84.7
MANSFIELD TOWNSHIP	805	9	3A	ALPAUGH, RUSSELL	2.23	2.23	100.0	1.73	77.7
MANSFIELD TOWNSHIP	901	2.02	3B	VANDERHOOF RONALD	13.10	8.38	64.0	10.81	82.6
MANSFIELD TOWNSHIP	1509	8	3B	HENGST, RAYMOND & PEGGY MARGARET	76.81	57.88	75.4	76.80	100.0
MANSFIELD TOWNSHIP	102	4.02	3A	BARBOUR, LARRY & BARBARA	7.07	7.07	100.0	5.55	78.5
MANSFIELD TOWNSHIP	601.02	32	3A	GETTO, LAWRENCE P	43.45	21.84	50.3	27.37	63.0
MANSFIELD TOWNSHIP	101.02	44	3B	KLIMAS, GABRIELLA	48.81	33.99	69.6	35.89	73.5

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
MANSFIELD TOWNSHIP	101.01	4	3A	CORRADO, JOSEPH & MARIE	66.60	49.80	74.8	35.00	52.5
MANSFIELD TOWNSHIP	601.03	48	3A	FIRST DYKSTRA TRUST, C/O KEN RAISCH	289.59	171.17	59.1	99.91	34.5
MANSFIELD TOWNSHIP	1402	11	3B	PERTICARI, ANTHONY & MARI ANN	52.47	30.87	58.8	30.23	57.6
MANSFIELD TOWNSHIP	601.01	23	3A	RJDD LLC	98.63	47.24	47.9	30.28	30.7
MANSFIELD TOWNSHIP	1101	11.01	3A	PHILHOWER, GARY K & TAMMIE C	9.23	9.16	99.2	8.45	91.5
MANSFIELD TOWNSHIP	501	3.01	3A	CAREY, WILLIAM	10.79	10.78	100.0	8.11	75.2
MANSFIELD TOWNSHIP	1301	3.05	3B	PILLION, MARK	15.43	12.91	83.7	14.99	97.2
MANSFIELD TOWNSHIP	203	1	3A	VETTER,KENNETH F. & ELIZABETH	61.10	30.47	49.9	31.17	51.0
POHATCONG TOWNSHIP	110	43	3B	SCHWARTZ, ELEANOR A.	24.94	21.34	85.6	15.60	62.5
POHATCONG TOWNSHIP	96	9.01	3A	SNYDER, GLENN H & MABLE	16.69	15.07	90.3	15.86	95.0
MANSFIELD TOWNSHIP	1506	6.03	3B	WATTLES, GURDON, C/O BESSEMER TRUST	2.45	2.45	100.0	2.45	100.0
MANSFIELD TOWNSHIP	601.02	43	3B	HANNEMA, AUKE H	46.70	39.18	83.9	34.22	73.3
MANSFIELD TOWNSHIP	1505	2.02	3A	MALEJKO, JOANNE A	25.74	21.15	82.2	17.08	66.3
WASHINGTON TOWNSHIP	48	70.01	3B	HEATH, JOSEPH & MARILYN M	4.27	4.10	96.0	4.10	95.9
WASHINGTON TOWNSHIP	27	14.01	3B	WOOLF, ROGER A	4.10	3.98	97.1	4.06	99.1
WASHINGTON TOWNSHIP	78	1	3B	SUPPLEE, WILLIAM W & ROBIN L	8.20	8.20	100.0	7.26	88.5
WHITE TOWNSHIP	7	3	3B	REALTY CO OF PENN%REAL ESTATE GENN5	94.92	92.07	97.0	87.11	91.8
WASHINGTON TOWNSHIP	66	1	3A	ANEMA, RALPH A & DIANNA M	128.90	125.12	97.1	108.02	83.8
WASHINGTON TOWNSHIP	66	1.10	3B	ANEMA, RANDY H	5.94	5.94	100.0	5.57	93.8
MANSFIELD TOWNSHIP	804.02	21.01	3A	KESLER JAMES & CAROL	57.86	28.71	49.6	30.94	53.5
MANSFIELD TOWNSHIP	801	11.01	3A	PERTICARI, ANTHONY & MARI ANN	14.52	14.48	99.7	11.40	78.5
MANSFIELD TOWNSHIP	1105.10	5	3B	SPENDER & FAMILY TRUST C/O SPENDER	59.41	59.41	100.0	59.41	100.0
MANSFIELD TOWNSHIP	501	2.01	3A	NORDMAN, SUSAN E & MAYER, SCOTT E	20.59	15.87	77.1	10.80	52.4
MANSFIELD TOWNSHIP	102	2.01	3A	BARTON, JOHN M	24.22	24.04	99.3	17.12	70.7
OXFORD TOWNSHIP	26	86	3B	JILLBART CORP.	77.94	41.59	53.4	38.28	49.1
OXFORD TOWNSHIP	1.01	1	3A	FLIEGAUF, KATHLEEN B & EDWARD W	18.83	13.15	69.8	9.81	52.1
OXFORD TOWNSHIP	31	25	3B	YEAGER, FAY	12.85	12.81	99.7	6.96	54.2
OXFORD TOWNSHIP	26	84	3A	YEAGER, FAY	73.07	57.43	78.6	53.42	73.1
OXFORD TOWNSHIP	33	5	3A	SCALORA, FRANK	9.27	9.27	100.0	5.46	58.9
OXFORD TOWNSHIP	25	10	3A	MCCONNELL, EDWARD R & PATRICIA A	51.70	34.40	66.5	32.61	63.1
OXFORD TOWNSHIP	26	87	3A	POPINKO FAMILY LIMITED PARTNERSHIP	117.27	86.64	73.9	50.09	42.7

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
PHILLIPSBURG TOWN	3301	1	3B	PHILLIPSBURG ASSOCIATES I, LP	28.23	21.57	76.4	22.48	79.6
POHATCONG TOWNSHIP	93	5	3B	EAI INVESTMENTS, LLC BLG C STE N	121.10	121.10	100.0	117.74	97.2
POHATCONG TOWNSHIP	101	13	3A	CHAMBERS, ROY	76.87	61.57	80.1	60.22	78.3
POHATCONG TOWNSHIP	98	15	3A	HARTUNG, FLORENCE P/TRUST	16.18	16.18	100.0	13.71	84.7
PHILLIPSBURG TOWN	3301	2	3B	PHILLIPSBURG ASSOCIATES I, LP	27.88	27.88	100.0	18.64	66.8
POHATCONG TOWNSHIP	115	11	3A	SMITH-BOHN, STACEY ANN	6.67	6.67	100.0	5.48	82.1
POHATCONG TOWNSHIP	115	12.01	3B	SMITH, STACEY ANN	2.30	2.30	100.0	2.30	99.7
POHATCONG TOWNSHIP	115	9	3B	SMITH, H NELSON & STACEY ANN	8.16	6.71	82.2	5.99	73.3
POHATCONG TOWNSHIP	98	23	3A	HOMA FARMS	216.64	194.24	89.7	185.78	85.8
POHATCONG TOWNSHIP	98	9.01	3B	FREY, ROBERT I & GERTRUDE G/TRUST	2.50	2.50	100.0	2.50	100.0
POHATCONG TOWNSHIP	115	10	3A	COUTO, MANUEL & CLAIRE	4.12	4.12	100.0	3.35	81.2
POHATCONG TOWNSHIP	94	1.02	3B	TOWN OF PHILLIPSBURG	11.04	11.04	100.0	8.68	78.6
POHATCONG TOWNSHIP	104	4	3B	SLACK, JOHN H & MARGARET M	15.06	15.06	100.0	14.94	99.2
POHATCONG TOWNSHIP	98	12	3A	LAMPERT, JAMES R.	9.50	9.50	100.0	6.34	66.8
POHATCONG TOWNSHIP	111	12	3B	HAGAMAN PAUL C/O E. HAGAMAN	8.25	8.06	97.7	8.11	98.3
POHATCONG TOWNSHIP	111	13	3A	ZAPATKA, FREDERICK E & MARILYN R	104.11	83.15	79.9	73.21	70.3
POHATCONG TOWNSHIP	111	13.01	3A	GROVES, ADRIENNE A	6.45	6.45	100.0	6.35	98.5
POHATCONG TOWNSHIP	110	45	3A	SCHWARTZ, ROBERT J	54.06	47.33	87.6	36.22	67.0
POHATCONG TOWNSHIP	98	20	3B	WILLEVER, WAYNE B.	1.79	1.79	100.0	1.74	97.5
POHATCONG TOWNSHIP	106	3.02	3A	HEATHER, ROY & JESSICA	11.80	11.80	100.0	10.04	85.1
POHATCONG TOWNSHIP	1	1	3B	LOCK STREET ASSOCIATES, LLC	23.56	20.55	87.2	19.51	82.8
POHATCONG TOWNSHIP	103	2	3A	SLACK, JOHN H. & MARGARET M	10.11	8.38	82.9	8.52	84.2
POHATCONG TOWNSHIP	95	2	3A	OBERLY, JACK R	53.65	53.65	100.0	53.17	99.1
POHATCONG TOWNSHIP	101	16.01	3B	JAYNE ENTERPRISES	13.27	13.15	99.1	11.57	87.2
POHATCONG TOWNSHIP	95	2.06	3B	OBERLY, JACK R.	35.22	33.50	95.1	34.88	99.0
POHATCONG TOWNSHIP	107	27	3A	SANTINI, ROBERT A & SHARON A	72.98	54.77	75.0	48.47	66.4
POHATCONG TOWNSHIP	98	9	3A	FREY, ROBERT I & GERTRUDE G/TRUST	28.31	28.31	100.0	27.49	97.1
POHATCONG TOWNSHIP	102	6	3A	MARTIN, GEORGE H & WINTERS, PAUL	13.83	9.44	68.2	7.85	56.8
POHATCONG TOWNSHIP	105	44	3A	WAR CO BEAGLE CLUB C/O LAGULLA	152.50	80.64	52.9	30.90	20.3
POHATCONG TOWNSHIP	98	10	3A	FREY, ROBERT I & GERTRUDE G/TRUST	13.42	13.42	100.0	12.68	94.5
POHATCONG TOWNSHIP	98	15.02	3A	CIRRECH FRANK	20.58	15.56	75.6	14.35	69.7

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
POHATCONG TOWNSHIP	98	10.01	3B	FREY, ROBERT I & GERTRUDE G/TRUST	2.55	2.55	100.0	2.52	99.2
POHATCONG TOWNSHIP	111	15	3A	YOUPA, NICHOLAS	41.15	27.56	67.0	21.16	51.4
POHATCONG TOWNSHIP	107	3	3A	EHASZ, STEPHEN A.	38.29	38.29	100.0	22.46	58.7
POHATCONG TOWNSHIP	99	2.02	3A	BABINSKY, J STEPHEN & SUSAN	42.10	25.99	61.7	26.28	62.4
POHATCONG TOWNSHIP	78	7	3B	VARGO, ERNEST L& JULIUS J.	24.13	24.13	100.0	24.09	99.9
POHATCONG TOWNSHIP	106	3.01	3A	THOMPSON, BRUCE & SUSAN KELLY	22.30	17.74	79.5	11.44	51.3
POHATCONG TOWNSHIP	106	3	3A	FUCILI, THOMAS	12.02	11.45	95.3	7.09	59.0
POHATCONG TOWNSHIP	94	5	3B	CRONCE, JAY E & MANCINI, CECILIA	1.32	1.32	100.0	1.32	100.0
POHATCONG TOWNSHIP	111	6	3A	CZAR BROS.	94.45	65.24	69.1	58.62	62.1
POHATCONG TOWNSHIP	109	1	3B	KOORITS LEMBIT C/O PEETS	21.40	15.03	70.2	16.46	76.9
POHATCONG TOWNSHIP	110	21	3A	SCHWARTZ, ELEANOR A.	22.50	22.50	100.0	20.86	92.7
POHATCONG TOWNSHIP	98	15.06	3B	HARTUNG, FLORENCE P/TRUST	5.90	5.90	100.0	5.87	99.6
POHATCONG TOWNSHIP	109	2.01	3A	WILLEVER, WAYNE B.	6.48	6.48	100.0	5.51	85.0
POHATCONG TOWNSHIP	101	15	3B	CHAMBERS ROY	32.56	32.56	100.0	32.48	99.8
POHATCONG TOWNSHIP	102	1	3B	BLOOMSBURY ASSOC. C/O LEUENBERGER	10.02	10.02	100.0	9.92	99.0
POHATCONG TOWNSHIP	111	14.01	3A	GILBERT, DONALD	8.37	8.37	100.0	7.46	89.2
POHATCONG TOWNSHIP	98	15.03	3A	SIENICKI DENNIS J & DARLENE L	7.88	7.75	98.4	7.06	89.6
POHATCONG TOWNSHIP	107	2	3A	MOYER, MRS. JOS., SR. (ESTATE)	130.98	122.11	93.2	92.36	70.5
POHATCONG TOWNSHIP	78	1	3A	WARREN BUSINESS PARK C/O KAISERMAN	103.09	103.09	100.0	88.60	85.9
POHATCONG TOWNSHIP	78	5.02	3B	COLE, RUSSELL E & MARGARET	68.53	68.53	100.0	67.96	99.2
POHATCONG TOWNSHIP	98	15.04	3A	VALENTE, CARLOS R	8.49	8.49	100.0	5.99	70.6
POHATCONG TOWNSHIP	109	2	3B	WILLEVER, WAYNE B & WENDY J	23.89	13.42	56.2	14.24	59.6
KNOWLTON TOWNSHIP	62	1.16	3B	FRANKLIN, VICTOR & WENDA	5.49	5.49	99.9	5.34	97.2
KNOWLTON TOWNSHIP	35	4.08	3B	GLYNN, FRANCIS DALE & GLORIA E	2.00	1.51	75.8	1.52	76.2
KNOWLTON TOWNSHIP	35	4.07	3B	GLYNN, FRANCIS DALE & GLORIA	1.97	1.76	89.6	1.76	89.3
KNOWLTON TOWNSHIP	48	26	3B	COOL, ALICE & EDNA KAHLER	67.72	48.82	72.1	30.87	45.6
KNOWLTON TOWNSHIP	48	24	3B	SCHARER, JAMES H	35.53	30.64	86.2	25.54	71.9
KNOWLTON TOWNSHIP	47	16	3A	SCHARER, JAMES H	25.28	14.49	57.3	14.83	58.7
KNOWLTON TOWNSHIP	66	1	3A	MCWILLIAMS, DEBORAH L	22.23	20.02	90.1	19.24	86.5
KNOWLTON TOWNSHIP	8	6.01	3A	HOH, JOHN & SALLIE	30.09	25.74	85.5	23.92	79.5
KNOWLTON TOWNSHIP	34	18.02	3B	BOWMAN, LEWIS & ERLA MAE	2.86	2.32	81.1	2.86	100.0

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
KNOWLTON TOWNSHIP	62	9	3B	ALTMAN, ERIC L & SHARI LEVOW	9.11	9.05	99.4	9.11	100.0
KNOWLTON TOWNSHIP	46	9	3B	PROSPERO, JUDITH	6.70	6.70	100.0	6.30	94.1
KNOWLTON TOWNSHIP	6	1	3A	KINNEY, MARY M	31.77	26.68	84.0	16.61	52.3
KNOWLTON TOWNSHIP	43	3	3A	RICH, ANNE P	116.78	98.02	83.9	82.45	70.6
KNOWLTON TOWNSHIP	44.01	15	3B	LIAW, HAO FENG & BERNARDINE T	8.00	6.68	83.4	7.41	92.6
MANSFIELD TOWNSHIP	1506	2	3A	WATTLES, GURDON, C/O BESSEMER TRUST	115.65	95.43	82.5	97.89	84.6
MANSFIELD TOWNSHIP	101.01	7	3B	UYGER, IHSAN	46.00	24.44	53.1	29.47	64.1
MANSFIELD TOWNSHIP	1105.10	7	3B	DONALDSON FAMILY L P	34.76	34.74	99.9	34.76	100.0
MANSFIELD TOWNSHIP	1307	6	3B	BOREALIS COMPOUNDS LLC	9.29	9.29	100.0	8.66	93.2
MANSFIELD TOWNSHIP	1502	2	3B	DIOCESE OF METUCHEN	84.54	84.54	100.0	25.97	30.7
MANSFIELD TOWNSHIP	703.02	11	3A	HEGEMAN, STEPHEN A	23.87	19.13	80.1	14.76	61.8
MANSFIELD TOWNSHIP	1501	5.02	3B	ERB, JOANNE C	6.66	6.63	99.5	5.28	79.3
MANSFIELD TOWNSHIP	1202	1.01	3B	SIMOFF, ABRAM & HAL	25.68	19.71	76.7	23.29	90.7
MANSFIELD TOWNSHIP	1204	16	3A	MC GARRY, WILLIAM & CAROLYN	77.95	33.57	43.1	29.78	38.2
MANSFIELD TOWNSHIP	1204	24	3B	FREEDOM GROUP LP	44.26	44.26	100.0	42.44	95.9
WHITE TOWNSHIP	18	4.02	3B	HAYES,S/COOPER,A/VALLER J	4.55	4.55	100.0	4.37	96.2
WHITE TOWNSHIP	48	1	3B	UNANGST, OSCAR	53.89	30.17	56.0	27.50	51.0
WASHINGTON TOWNSHIP	48	69	3B	ANEMA, BRENDA L	66.64	54.17	81.3	42.90	64.4
WASHINGTON TOWNSHIP	40	46	3A	VACCHIANO, ANTHONY & LUCIA	80.80	50.31	62.3	54.17	67.0
WASHINGTON TOWNSHIP	47	9	3B	MCCULLOUGH ROAD LAND DEVELOPMNT,LLC	68.90	63.23	91.8	59.58	86.5
WASHINGTON TOWNSHIP	79	1	3B	ANEMA, CAROL A	59.10	48.73	82.5	50.76	85.9
WASHINGTON TOWNSHIP	48	53	3A	HEATH, JOSEPH & MARILYN M	5.11	5.11	100.0	3.91	76.5
WASHINGTON TOWNSHIP	44	7	3A	HENGST, RAYMOND & PEGGY	52.81	35.98	68.1	51.51	97.5
WASHINGTON TOWNSHIP	74	4	3B	PLUSHANSKI, ALEXANDER JR	7.04	7.04	100.0	6.98	99.3
WASHINGTON TOWNSHIP	79	7	3B	TGJ DEVELOPMENT CORPORATION	22.05	16.45	74.6	15.32	69.5
WASHINGTON TOWNSHIP	75	2.01	3A	MCGRATH, NANCY	47.21	47.21	100.0	46.90	99.3
WASHINGTON TOWNSHIP	75	2.03	3A	ROTH, CURTIS & LYDIA M	36.50	36.50	100.0	35.08	96.1
WASHINGTON TOWNSHIP	76	4	3B	ABBOTT, MARION H	22.61	22.61	100.0	22.61	100.0
POHATCONG TOWNSHIP	109	61	3B	CZAR BROS.	68.83	43.10	62.6	59.93	87.1
POHATCONG TOWNSHIP	101	3	3A	BOWERS RUSSELL E & LAURA B	49.91	34.76	69.6	37.67	75.5
POHATCONG TOWNSHIP	109	55	3A	CRONCE, CLIFFORD ESTATE OF	92.07	59.88	65.0	54.97	59.7

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
POHATCONG TOWNSHIP	106	8	3A	ROMAINE, JOHN P & LEILANI J	10.74	10.74	100.0	7.64	71.1
POHATCONG TOWNSHIP	78	7.01	3B	VARGO, ERNEST L & JULIUS J.	5.08	5.08	100.0	4.89	96.3
POHATCONG TOWNSHIP	111	17	3A	A & E REALTY ASSOCIATES	67.05	57.91	86.4	25.92	38.7
POHATCONG TOWNSHIP	98	9.02	3B	FREY, ROBERT I & GERTRUDE G/TRUST	2.48	2.48	100.0	2.48	100.0
POHATCONG TOWNSHIP	93	4	3A	EAI INVESTMENTS, LLC SUITE N	48.27	48.27	100.0	44.77	92.7
WASHINGTON TOWNSHIP	71	1.05	3B	SIGLER ANNA / STECKER DORIS	1.79	1.79	100.0	1.79	100.0
WASHINGTON TOWNSHIP	75	1	3B	WASHINGTON SHOPPING CENTER INC	56.99	56.99	100.0	26.62	46.7
WASHINGTON TOWNSHIP	71	7.39	3A	PLUSHANSKI, ALEXANDER JR & JOAN	13.77	13.77	100.0	11.90	86.4
WASHINGTON TOWNSHIP	71	1.03	3B	SIGLER ANNA / SODTALBERS ANNA	1.82	1.82	100.0	1.79	98.1
WASHINGTON TOWNSHIP	71	1.04	3B	SIGLER ANNA / MARLATT RUTH	1.81	1.81	100.0	1.81	100.0
WASHINGTON TOWNSHIP	75	2.04	3B	MCGRATH, NANCY	7.10	7.10	100.0	5.85	82.3
WASHINGTON TOWNSHIP	16	9	3A	AJR INVESTMENTS GROUP L.P.	93.54	93.38	99.8	91.32	97.6
WASHINGTON TOWNSHIP	3	5	3A	MASTORELLI, MARY ANN	10.74	9.21	85.7	6.01	56.0
WASHINGTON TOWNSHIP	85	1	3B	ROSEBERRY, EDITH	0.24	0.24	100.0	0.23	96.9
WASHINGTON TOWNSHIP	16	17	3A	AJR INVESTMENTS GROUP L.P.	57.20	57.20	100.0	52.59	91.9
WASHINGTON TOWNSHIP	75	2.05	3B	MCGRATH, NANCY	4.50	4.50	100.0	4.42	98.3
WASHINGTON TOWNSHIP	71	1.06	3B	SIGLER, ANNA & SHIRLEY	1.78	1.78	100.0	1.78	100.0
WASHINGTON TOWNSHIP	45	14.05	3B	DONOGHUE, THOMAS & RENEE	10.01	10.01	100.0	9.57	95.7
WASHINGTON TOWNSHIP	48	75	3A	VLIET, CARL R	120.35	95.23	79.1	108.40	90.1
WASHINGTON TOWNSHIP	70	4	3B	SCHNETZER, ARNOLD P	6.95	6.95	100.0	6.85	98.6
WASHINGTON TOWNSHIP	66	20.06	3B	ENNIS, KIRSTEN B	9.03	9.02	99.9	8.73	96.6
WASHINGTON TOWNSHIP	81	8	3B	SUPPLEE, ELEANOR W/TRUST	35.20	32.64	92.7	26.67	75.8
WASHINGTON TOWNSHIP	83	1.01	3A	MILLER, KENNETH C & MELINDA	29.49	25.84	87.6	27.54	93.4
WASHINGTON TOWNSHIP	47	7	3A	CHANGEWATER ASSOC. C/O NATHANSON	132.33	132.33	100.0	118.83	89.8
WASHINGTON TOWNSHIP	85	9	3B	ROSEBERRY, EDITH M	3.04	3.04	100.0	2.86	93.8
WASHINGTON TOWNSHIP	76	1.02	3B	COWELL,ET ALS C/O RYMON	13.15	13.15	100.0	12.18	92.6
WASHINGTON TOWNSHIP	71	4	3B	BALL, MAUREEN P & ROBERT	14.65	14.65	100.0	14.54	99.2
WASHINGTON TOWNSHIP	40	28	3B	SODTALBERS, ELSIE & ERICH D W SR	7.85	7.85	100.0	6.74	85.8
WASHINGTON TOWNSHIP	84	1.02	3B	ROSEBERRY, EDITH M	2.61	2.61	100.0	2.61	100.0
WASHINGTON TOWNSHIP	22	3	3B	PAFTINOS, VAN	28.93	28.93	100.0	19.51	67.4
WASHINGTON TOWNSHIP	27	15	3A	RAZAWICH, MELVIN	13.59	13.59	100.0	8.73	64.3

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
WASHINGTON TOWNSHIP	38	8	3A	SHIELDS, CHARLES W	11.86	6.15	51.8	8.68	73.2
WHITE TOWNSHIP	11	9	3B	JONES GEORGE D & JANET B	1.17	1.16	99.0	1.16	98.9
WHITE TOWNSHIP	11	4	3A	DEMETER, ELIZABETH M	58.69	43.75	74.5	38.26	65.2
WHITE TOWNSHIP	52	10	3B	DSM NUTRITIONAL PRODUCTS INC	251.39	241.68	96.1	28.57	11.4
WHITE TOWNSHIP	55	3	3A	BARKER, JACQUELINE LARUE	34.35	28.19	82.1	25.91	75.4
WHITE TOWNSHIP	47	1	3A	UNANGST, OSCAR	9.95	9.95	100.0	8.90	89.4
WHITE TOWNSHIP	30	7	3A	WYCKOFF, JOHN W JR & JUDY MORRIS	46.81	46.81	100.0	46.01	98.3
WHITE TOWNSHIP	47	11	3B	BILYK FAMILY LIMITED PARTNERSHIP	8.92	8.36	93.7	8.90	99.8
WASHINGTON TOWNSHIP	40	30	3A	KNITTEL, WALTER E & DOREEN	26.92	23.33	86.7	14.39	53.5
WASHINGTON TOWNSHIP	40	31.01	3B	KNITTEL, JONATHAN WILLIAM & JENNIFER M	19.85	19.56	98.5	17.40	87.6
WASHINGTON TOWNSHIP	84	1	3B	ROSEBERRY, EDITH M	41.32	41.32	100.0	39.93	96.6
WASHINGTON TOWNSHIP	27	14.02	3B	WOOLF, ROGER A	4.12	3.33	80.7	3.91	95.0
WASHINGTON TOWNSHIP	27	11	3B	BALDWIN, WILLIAM R & FRANK R	6.91	5.29	76.6	6.31	91.4
WASHINGTON TOWNSHIP	83	4	3B	PIAZZA, FRANK J & JOYCE M	36.86	33.98	92.2	34.26	92.9
WASHINGTON TOWNSHIP	83	2	3B	PIAZZA, SAMUEL A & MARSHA A	72.24	67.81	93.9	58.74	81.3
WASHINGTON TOWNSHIP	44	6.05	3B	SNYDER, MARY LOU	4.64	4.64	100.0	4.60	99.2
WASHINGTON TOWNSHIP	85	10.01	3B	ROSEBERRY, EDITH M	0.11	0.11	100.0	0.11	100.0
WASHINGTON TOWNSHIP	71	1	3A	SIGLER, ANNA E	59.51	59.51	100.0	58.40	98.1
WASHINGTON TOWNSHIP	79	1.02	3B	ANEMA, CAROL A	6.83	6.79	99.5	6.83	100.0
WASHINGTON TOWNSHIP	45	14	3B	FOLTZER, CHARLENE E & TAYLOR, R	29.85	25.78	86.4	26.52	88.8
WASHINGTON TOWNSHIP	83	4.02	3B	PIAZZA, FRANK J & JOYCE M	0.96	0.96	100.0	0.96	100.0
WASHINGTON TOWNSHIP	16	4	3A	CROUSE, CARL JR & JENNIE M	102.57	101.26	98.7	98.98	96.5
WASHINGTON TOWNSHIP	71	6	3A	RUSH, KEVIN	69.20	69.20	100.0	67.82	98.0
WASHINGTON TOWNSHIP	48	72	3B	ANEMA, BRENDA L	27.10	27.10	100.0	25.81	95.2
WASHINGTON TOWNSHIP	44	6	3A	TERRY, EDWARD T & KIM	20.31	19.98	98.4	18.62	91.7
WASHINGTON TOWNSHIP	40	47	3A	WATERMAN, GEORGE & WENDY	8.27	8.27	100.0	5.05	61.0
WASHINGTON TOWNSHIP	40	33	3A	HANNEMA, WILLEM & MARGARET	28.62	25.65	89.6	23.60	82.5
WASHINGTON TOWNSHIP	83	4.01	3B	PIAZZA, FRANK J & JOYCE M	1.15	1.15	100.0	1.15	100.0
WASHINGTON TOWNSHIP	71	4.04	3A	CROSBY, RUSSELL & ILONA	10.02	10.02	100.0	8.38	83.6
WASHINGTON TOWNSHIP	83	16	3B	PIAZZA, FRANK J & JOYCE M	19.14	19.14	100.0	18.48	96.5
WASHINGTON TOWNSHIP	45	14.03	3B	TRUST OF EPIS FUND & DIOCESAN PROP	6.76	6.76	100.0	6.54	96.7

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
WASHINGTON TOWNSHIP	28	5	3B	NOTTINGHAM, LLC	32.92	32.92	100.0	31.61	96.0
WASHINGTON TOWNSHIP	66	1.06	3A	ANEMA, RALPH A & DIANA M	23.88	23.34	97.7	19.65	82.3
WASHINGTON TOWNSHIP	65	8	3B	RYMON, BELVA M C/O WILLIAM RYMON	22.74	22.74	100.0	18.99	83.5
WASHINGTON TOWNSHIP	66	20.04	3B	GIBSON, WILLARD F JR/TRUSTEE	9.28	9.28	100.0	8.67	93.4
WHITE TOWNSHIP	10	33.02	3B	WALL,NORBERT F & DREW A RICCO	7.89	7.30	92.5	6.35	80.5
WASHINGTON TOWNSHIP	40	29.01	3B	SODTALBERS, ERICH D W JR & ANNA E	1.41	1.41	100.0	1.40	98.9
WHITE TOWNSHIP	31	14.01	3A	RUSTICUS, YKE & MARY C	59.80	59.80	100.0	58.32	97.5
WASHINGTON TOWNSHIP	39	1	3A	WEINGARTEN DANIEL / SPERO JUDITH	110.48	61.08	55.3	27.90	25.3
WASHINGTON TOWNSHIP	71	5	3B	RYMON, HARRY / REVOCABLE TRUST	99.16	99.16	100.0	97.01	97.8
WASHINGTON TOWNSHIP	84	1.01	3B	ROSEBERRY, EDITH M	4.38	4.38	100.0	4.29	97.9
WASHINGTON TOWNSHIP	45	20	3B	ROSEBERRY, WILLIAM M & RICHARD W	97.31	97.21	99.9	96.86	99.5
WASHINGTON TOWNSHIP	82	17	3A	SPANN, MAXMILLIAN M.E. & VIRGIENE R	144.14	117.60	81.6	118.74	82.4
WHITE TOWNSHIP	69	3	3A	BULLOCK, CLARENCE E	64.08	27.58	43.0	42.77	66.7
WHITE TOWNSHIP	13	23	3A	DEMETER, ELIZABETH M	58.15	57.25	98.5	56.74	97.6
WHITE TOWNSHIP	13	22	3B	WALBURN, JOHN J JR	26.60	24.29	91.3	16.07	60.4
WHITE TOWNSHIP	63	3	3B	UNANGST, OSCAR W & LORRAINE A	10.83	10.83	100.0	10.83	100.0
WHITE TOWNSHIP	30	8	3A	VANDE VREDE, DAVID & GERDA ET AL	105.56	105.56	100.0	90.86	86.1
WHITE TOWNSHIP	15	1	3A	WIDDOS, RANDY S	34.27	24.87	72.6	21.21	61.9
WHITE TOWNSHIP	30	1	3B	SMITH, E RICHARD	30.77	30.77	100.0	30.77	100.0
WHITE TOWNSHIP	13	30	3B	DEMETER, FRANK JR	80.48	54.50	67.7	50.49	62.7
WHITE TOWNSHIP	13	11	3B	JOHNSON, ELIZABETH	53.50	35.86	67.0	30.43	56.9
WHITE TOWNSHIP	30	5	3B	SMITH, EARL RICHARD & DONALD W	9.02	9.02	100.0	8.74	96.8
WHITE TOWNSHIP	30	6.01	3B	NIEUWENHUIS, RICHARD E & GERTRUDE A	5.19	5.19	100.0	5.09	98.1
WHITE TOWNSHIP	21	12	3A	SMITH, E RICHARD & DONALD	85.46	85.16	99.6	76.21	89.2
WHITE TOWNSHIP	51	4	3B	FRATEZI, ARMANDO	22.64	22.64	100.0	18.67	82.4
WHITE TOWNSHIP	59	4	3A	MENEGUS, JOSEPH & ANNABELL	17.61	13.86	78.7	11.73	66.6
WHITE TOWNSHIP	59	11	3A	MCCREA DAVID W & LETITIA M	17.54	17.54	100.0	9.81	55.9
WHITE TOWNSHIP	18	8	3A	GARGANO, MARIE RECEIVER	111.03	76.83	69.2	76.30	68.7
WHITE TOWNSHIP	60	10	3B	MENEGUS, BARTOLO & BARBARA	2.33	2.33	100.0	2.26	97.3
WHITE TOWNSHIP	60	12	3B	ZURAWELL, WALTER	22.51	22.08	98.1	17.71	78.7
WHITE TOWNSHIP	60	7	3A	ENSACK, HOWARD E & SHIRLEY A	5.98	5.98	100.0	5.17	86.4

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
WHITE TOWNSHIP	71	8	3A	KEATING, GARRETT M.	19.47	15.71	80.6	10.79	55.4
WHITE TOWNSHIP	21	4	3A	SMITH, EARL RICHARD	92.55	92.55	100.0	91.66	99.0
WHITE TOWNSHIP	46	37	3B	ROCHE FINANCE C/O F. J. D'ANGELO	97.26	94.02	96.7	53.81	55.3
WHITE TOWNSHIP	18	7	3A	TISHUK, WILLIAM	133.77	84.27	63.0	71.36	53.3
WHITE TOWNSHIP	47	10	3A	CHAMBERLAIN, EVERETT A & JUDITH L	106.63	106.63	100.0	35.86	33.6
WASHINGTON TOWNSHIP	40	33.01	3A	CLEMENT,KEVIN C & THERESA M	39.16	32.78	83.7	23.25	59.4
WASHINGTON TOWNSHIP	43	3.02	3A	NELSON, FIONA	9.19	9.19	100.0	5.96	64.9
WASHINGTON TOWNSHIP	82	15	3A	ANEMA, MICHAEL J & LINDA E	43.33	43.33	100.0	36.17	83.5
WASHINGTON TOWNSHIP	79	1.01	3B	ANEMA, CAROL A	5.43	5.43	100.0	5.43	100.0
WASHINGTON TOWNSHIP	27	14	3B	WOOLF, ROGER A	11.31	10.65	94.2	10.88	96.2
WHITE TOWNSHIP	60	8.01	3A	GLENN, JAMES L & KARIN	6.74	6.74	100.0	5.89	87.4
WHITE TOWNSHIP	21	11	3A	POSTMA, PETE & JETSKE	92.61	86.19	93.1	36.33	39.2
WHITE TOWNSHIP	48	13	3B	BILYK FAMILY LIMITED PARTNERSHIP	31.97	31.97	100.0	31.84	99.6
WHITE TOWNSHIP	56	1	3A	MOORE, ANDREW & GERVIN, REBECCA	24.34	19.62	80.6	21.63	88.9
WHITE TOWNSHIP	21	10	3B	REALTY CO OF PENN%REAL ESTATE GENN5	9.60	9.02	94.0	7.08	73.8
FRANKLIN TOWNSHIP	41	9	3B	BLUMNER ASSOCIATES LLC ETALS	112.71	111.81	99.2	87.58	77.7
FRANKLIN TOWNSHIP	39	6.03	3B	THE CHAPEL AT WARREN VALLEY	12.03	12.03	100.0	10.77	89.6
FRANKLIN TOWNSHIP	39	6.02	3B	TAVERAS, CHARLES & GERTURDE	6.81	6.81	100.0	5.61	82.4
FRANKLIN TOWNSHIP	57	15	3A	MARIANO, THOMAS J & ELAINE M	8.26	8.26	100.0	6.82	82.6
WHITE TOWNSHIP	34	20	3B	POPINKO FAMILY LIMITED PARTNERSHIP	14.73	14.64	99.4	13.79	93.6
WHITE TOWNSHIP	31	14	3A	BILYK FAMILY LIMITED PARTNERSHIP	49.22	48.66	98.9	48.51	98.6
WHITE TOWNSHIP	21	6	3A	HUMMER, RICHARD JR	123.26	123.26	100.0	116.52	94.5
WHITE TOWNSHIP	18	4	3A	WORTMANN, ROBERT	3.59	3.59	100.0	2.71	75.4
WHITE TOWNSHIP	32	8	3A	DEBOER, STEVEN J & ROBERT A	54.55	47.58	87.2	43.80	80.3
WHITE TOWNSHIP	13	17.01	3A	MCEVOY, GERARD V & JANET L	23.79	20.44	85.9	18.12	76.2
WHITE TOWNSHIP	72	6	3B	CAMMAROTA, RUDOLPH O	58.09	52.24	89.9	37.04	63.8
WHITE TOWNSHIP	13	24	3A	DALRYMPLE BRENT	37.67	28.79	76.4	19.60	52.0
WHITE TOWNSHIP	48	12	3A	FUCHS,FREDERICK R/SUPPLEE,MILDRED C	63.96	63.44	99.2	63.73	99.6
WHITE TOWNSHIP	67	1	3A	REINALDA, ANNA	45.09	25.09	55.6	37.24	82.6
WHITE TOWNSHIP	67	22	3B	DEER HOLLOW FARM, % J. FLATH	158.86	61.36	38.6	56.37	35.5
WHITE TOWNSHIP	62	24	3A	STAMPF, GYORGY C/O KOCH & NELSON	77.72	74.49	95.8	54.17	69.7

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
WHITE TOWNSHIP	31	15	3A	BILYK, ED	8.15	7.99	98.0	7.40	90.8
WHITE TOWNSHIP	14	37	3A	MARTIN, CARL, KEN, ALICE	83.49	51.34	61.5	49.89	59.8
WHITE TOWNSHIP	18	57	3A	SALA, ROBERT P & JANET F	9.44	9.44	100.0	6.20	65.7
WHITE TOWNSHIP	33	20.01	3B	KIZONAK, ANDREW & JANET	15.65	8.19	52.3	9.15	58.5
WHITE TOWNSHIP	18	58	3B	JOHNSON ELIZABETH	20.71	17.81	86.0	11.04	53.3
WHITE TOWNSHIP	49	3	3B	BELBY, MICHAEL E & KATHRYNE A	7.05	7.05	100.0	5.29	75.1
WHITE TOWNSHIP	7	14	3B	ROMANI MARGARET EST C/O HAYES, S.	70.87	70.87	100.0	70.87	100.0
WHITE TOWNSHIP	60	6.01	3B	MENEGUS, JOSEPH & ANNABELLE	6.32	6.32	100.0	6.17	97.6
WHITE TOWNSHIP	67	21	3B	MATARAZZO, ROBERT & LAURA	0.65	0.65	100.0	0.62	95.6
WHITE TOWNSHIP	67	18	3B	MATARAZZO, ROBERT J & LAURA R	70.65	55.12	78.0	50.10	70.9
WHITE TOWNSHIP	21	3	3A	SMITH, EARL RICHARD	27.99	27.99	100.0	27.63	98.7
WHITE TOWNSHIP	33	10	3A	PERRY, VALERIE	10.74	10.43	97.2	8.81	82.1
WHITE TOWNSHIP	18	14	3A	MACKEY DEVLEN R & MACKEY HOLLY	48.11	26.78	55.7	24.52	51.0
WHITE TOWNSHIP	33	16	3A	RACE, SAMUEL R & JEAN A	13.11	13.11	100.0	11.24	85.8
WHITE TOWNSHIP	71	17	3A	SHOEMAKER HOWARD M	21.36	11.66	54.6	12.06	56.5
WHITE TOWNSHIP	70	9	3B	CHIRCOP, VINCENT	9.25	7.05	76.2	6.27	67.8
WHITE TOWNSHIP	70	9.01	3B	CHIRCOP, VINCENT E	1.01	0.82	80.9	0.89	88.2
WHITE TOWNSHIP	7	4	3A	REALTY CO OF PENN%REAL ESTATE GENN5	92.57	77.17	83.4	84.11	90.9
WHITE TOWNSHIP	54.01	2	3B	WADE ROBERT	26.96	21.97	81.5	14.17	52.5
WHITE TOWNSHIP	28	2.01	3B	LINABERRY, MARY ELIZABETH	10.63	10.63	100.0	10.12	95.2
WHITE TOWNSHIP	47.01	5	3B	UNANGST, OSCAR	15.69	13.96	89.0	10.65	67.9
WHITE TOWNSHIP	66	8	3B	OLIVER, ANNA C/O FRED OLIVER	2.48	2.48	100.0	2.00	80.4
WHITE TOWNSHIP	50	2	3A	BELBY, MICHAEL & KATHRYN	4.82	4.82	100.0	4.81	99.8
WHITE TOWNSHIP	64	8	3B	CRAMER, STEWART	42.51	32.97	77.6	36.64	86.2
WHITE TOWNSHIP	55	8	3A	QUICK, JACOB & CAROL	43.57	39.53	90.7	32.57	74.7
WHITE TOWNSHIP	30	2	3B	SMITH, EARL RICHARD	29.69	29.69	100.0	29.65	99.9
WHITE TOWNSHIP	52	25	3B	COSTELLO FAMILY TRUST	2.16	2.10	97.3	1.77	82.2
WHITE TOWNSHIP	47	5	3A	UNANGST, OSCAR & LORRAINE	87.39	84.28	96.4	81.99	93.8
WHITE TOWNSHIP	30	6.02	3B	NIEUWENHUIS, RICHARD E & GERTRUDE A	5.43	5.43	100.0	5.43	100.0
WHITE TOWNSHIP	18	9	3B	WYCKOFF, JOHN JR & SUSAN, MORRIS, JUDY	122.80	67.69	55.1	75.01	61.1
WHITE TOWNSHIP	7	5	3A	REALTY CO OF PENN%REAL ESTATE GENN5	95.47	82.60	86.5	86.37	90.5

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
WHITE TOWNSHIP	60	4	3B	MENEGUS, BARTOLO & BARBARA	4.22	4.22	100.0	4.22	100.0
WHITE TOWNSHIP	7	2	3A	CLINE, LORRAINE	22.11	22.11	100.0	20.73	93.8
WHITE TOWNSHIP	51	5	3B	ROCHE VITAMINS INC C/O A DENOOVER	42.43	42.43	100.0	29.02	68.4
WHITE TOWNSHIP	67	16	3A	THOMPSON PERIE THOMAS & KATHARINE	48.75	35.47	72.8	32.18	66.0
WHITE TOWNSHIP	31	1	3B	RUSTICUS, YKE & MARY C	3.29	3.29	100.0	3.22	98.0
WHITE TOWNSHIP	67	17	3B	MATARAZZO, ROBERT J & LAURA R	52.74	33.97	64.4	33.91	64.3
WHITE TOWNSHIP	62	3	3B	CAPRIO, ANGELINA	19.49	19.49	100.0	18.43	94.6
WHITE TOWNSHIP	63	2	3B	CORDINA, INC	8.79	8.77	99.7	8.17	92.9
WHITE TOWNSHIP	18	13	3A	PARKS, JAMES R	43.89	22.47	51.2	24.13	55.0
WHITE TOWNSHIP	60	9	3B	MENEGUS,BERTHA LENA,JEFFREY J,RAY M	4.33	4.33	100.0	3.92	90.6
WHITE TOWNSHIP	47	7.02	3B	PEQUEST DEVELOPMENT, LLC	2.10	2.10	100.0	1.81	86.2
WHITE TOWNSHIP	34	16	3A	PWC, INC	26.85	23.22	86.5	17.92	66.7
WHITE TOWNSHIP	7	11	3A	REALTY CO OF PENN%REAL ESTATE GENN5	131.94	109.71	83.2	123.03	93.2
WHITE TOWNSHIP	47	9	3A	CHAMBERLAIN, EVERETT & JUDITH	64.17	64.17	100.0	49.45	77.1
WHITE TOWNSHIP	32	10	3B	UNANGST, OSCAR	87.85	51.51	58.6	55.94	63.7
WHITE TOWNSHIP	56	4.01	3A	GALATIANOS, GUS	36.26	29.83	82.3	33.40	92.1
WHITE TOWNSHIP	18	4.01	3B	HAYES,S/COOPER,A/VALLER J	2.20	2.20	100.0	2.15	97.4
WHITE TOWNSHIP	13	11.01	3B	MC EVOY JANET	20.90	12.31	58.9	13.12	62.8
WHITE TOWNSHIP	56	4	3A	BOHRER, WILLIAM	16.56	15.41	93.1	10.66	64.4
WHITE TOWNSHIP	67	19	3A	MATARAZZO, ROBERT J & LAURA R	42.68	33.49	78.5	28.88	67.7
BLAIRSTOWN TOWNSHIP	506	8.04	3B	NONNENMACHER, LOTHAR J, TRUSTEE	25.25	24.91	98.7	22.27	88.2
BLAIRSTOWN TOWNSHIP	1001	11	3A	READ, ELIZABETH & HELEN R GLADD	9.05	5.66	62.5	5.54	61.2
BLAIRSTOWN TOWNSHIP	901	1	3B	BURKE, JOHN J & MARIA A	12.31	12.31	100.0	9.68	78.6
FRANKLIN TOWNSHIP	58	10	3B	CERICOLA, ROBERT J	30.05	30.05	100.0	30.05	100.0
FRANKLIN TOWNSHIP	42	11	3A	OBERLY CLIFFORD & MARGARET	62.98	51.95	82.5	48.14	76.4
BLAIRSTOWN TOWNSHIP	1402	21.01	3A	MARING,HAROLD R,JOHN J & MARILYN Y	19.01	10.47	55.1	15.49	81.4
BLAIRSTOWN TOWNSHIP	901	2.07	3A	PETTERSON JUANITA	9.42	7.57	80.4	9.09	96.5
BLAIRSTOWN TOWNSHIP	2101	4.01	3A	WOHLERS, FRANK C & JANET	59.32	28.02	47.2	27.21	45.9
BLAIRSTOWN TOWNSHIP	702	15.01	3A	RANGE, EDWARD A & GRACE E, TRUSTEES	40.66	23.60	58.0	33.75	83.0
BLAIRSTOWN TOWNSHIP	2203	7.14	3B	ZUKOSKI, GEORGE	4.19	3.60	85.8	3.29	78.5
FRANKLIN TOWNSHIP	43	10	3B	THATCHER RUSSELL	47.57	40.32	84.7	34.98	73.5

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
FRANKLIN TOWNSHIP	57	1	3A	LEAVENS, WILLIAM B III	11.33	9.56	84.4	10.18	89.9
FRANKLIN TOWNSHIP	48	4.02	3A	POLOMSKI, FELIKS & BOGUMILA	15.98	15.98	100.0	15.14	94.8
FRANKLIN TOWNSHIP	49	1	3B	SIGLER, ANNA E	2.05	2.05	100.0	2.03	98.8
FRANKLIN TOWNSHIP	1	2	3A	HAYDU, FRANCIS M & DEBORAH M	8.30	8.30	100.0	6.54	78.8
FRANKLIN TOWNSHIP	51	1.06	3B	ADAMS, STEPHEN S & MICHELLE L	4.87	4.87	100.0	3.70	75.9
FRANKLIN TOWNSHIP	7	14	3A	BLEASE, ROBERT R	8.53	8.53	100.0	6.85	80.4
FRANKLIN TOWNSHIP	29	1	3A	YEAGER, ROBERT & MARSHA M	10.65	10.65	100.0	6.17	57.9
FRELINGHUYSEN TOWNSHIP	1401	19	3B	POLOWY, STEPHEN & EDWARD	141.42	32.79	23.2	35.21	24.9
FRELINGHUYSEN TOWNSHIP	1703	11	3B	MANAK, MARY	40.18	31.50	78.4	27.76	69.1
FRELINGHUYSEN TOWNSHIP	1803	8.01	3A	BERRY, JOYCE LYNETTE & ROBERT E	99.34	26.31	26.5	45.26	45.6
GREENWICH TOWNSHIP	2	2.02	3B	TINTLE, WILLIAM C & ALETA	12.15	11.73	96.5	9.55	78.6
GREENWICH TOWNSHIP	36	2	3B	DOWEL ASSOC, A NJ PARTNERSHIP	113.70	113.70	100.0	106.83	94.0
GREENWICH TOWNSHIP	16	5	3A	GORGAS, CHARLES & BETTY	9.47	9.47	100.0	6.66	70.3
GREENWICH TOWNSHIP	26	32	3B	VOORHEES, WILLIAM H, GEORGENE ETALS	62.21	62.21	100.0	62.01	99.7
GREENWICH TOWNSHIP	14	10	3A	O'DOWDS INC	28.22	28.22	100.0	21.88	77.5
GREENWICH TOWNSHIP	36	3	3B	DOWEL ASSOC, A NJ PARTNERSHIP	13.15	13.15	100.0	13.14	99.9
GREENWICH TOWNSHIP	13	9	3B	JIORLE,ROBERT/GOODMAN-JIORLE,JACKI	7.25	7.25	100.0	7.18	99.1
GREENWICH TOWNSHIP	40	3	3B	CULBERTSON, ET ALC/O LAND EQUITY IN	30.78	25.78	83.7	25.93	84.2
GREENWICH TOWNSHIP	28	4	3A	NEW VILLAGE ROAD, LLC C/O KAPLEN	95.14	64.13	67.4	82.65	86.9
GREENWICH TOWNSHIP	20	26	3A	SMITH, NORMAN J & TIMOTHY	128.25	123.82	96.5	123.60	96.4
LIBERTY TOWNSHIP	9	22	3A	PASKO,MARY,EST.C/O EDWARD PASKO SR	104.94	75.51	72.0	59.90	57.1
LIBERTY TOWNSHIP	1	29	3A	PIASECKI, EDWARD	31.73	22.92	72.2	30.38	95.7
LIBERTY TOWNSHIP	17	14	3B	BARTON, CHERYL L	0.88	0.88	100.0	0.81	91.4
LIBERTY TOWNSHIP	12	12	3B	APC INVESTORS	21.03	12.19	58.0	17.12	81.4
LIBERTY TOWNSHIP	1	20.01	3A	PRYSLAK FARMS	24.26	14.68	60.5	14.61	60.2
LIBERTY TOWNSHIP	1	23	3B	PRYSLAK FARMS	10.28	6.30	61.3	10.28	100.0
LIBERTY TOWNSHIP	1	36	3A	BOLZAN, RAYMOND JR	14.39	7.52	52.3	14.31	99.4
LOPATCONG TOWNSHIP	100	13	3B	HAJDU LOUIS	0.25	0.25	100.0	0.19	76.7
LOPATCONG TOWNSHIP	102	9	3B	LOCK STREET ASSOCIATES, LLC	57.25	54.07	94.4	38.63	67.5
LOPATCONG TOWNSHIP	100	7	3B	SANTINI, ROBERT A & SHARON	54.82	44.78	81.7	53.22	97.1
MANSFIELD TOWNSHIP	101.02	38	3B	BARTON, CHERYL L	3.34	3.34	100.0	2.89	86.5

Farm Parcels Meeting the SADC Minimum Eligibility Criteria for Soils and Tillable Land

Municipality	BLOCK	LOT	Property Class	Owners Name	Farm Parcels Meeting the SADC Minimum Eligibility Criteria for...				
					Size Farm Parcel (acres)	Agricultural Soils (acres)	Agricultural Soils (percent)	Tillable Land (acres)	Tillable Land (percent)
MANSFIELD TOWNSHIP	1509	7.01	3B	HENGST,RAYMOND & PEGGY MARGARET	28.03	18.02	64.3	27.95	99.7
MANSFIELD TOWNSHIP	501	13.02	3A	HANNENA EILE	160.04	128.33	80.2	138.82	86.7
MANSFIELD TOWNSHIP	101.01	5	3A	CORRADO, JOSEPH & MARIE	55.05	42.95	78.0	44.52	80.9
MANSFIELD TOWNSHIP	101.01	1	3B	PIO COSTA, ROSALIND/TRUST	40.34	35.33	87.6	20.44	50.7
POHATCONG TOWNSHIP	98	25	3B	FREY, ROBERT I & GERTRUDE G/TRUST	74.69	73.14	97.9	68.71	92.0
POHATCONG TOWNSHIP	96	5.01	3A	CRONCE, CHARLES F & GRACE E	10.28	10.28	100.0	7.24	70.4
POHATCONG TOWNSHIP	102	2	3B	JAYNE INVESTMENT GROUP	75.70	61.23	80.9	49.78	65.8
WASHINGTON TOWNSHIP	74	3.01	3A	HEISER, ROBERT JR & SZUBA, GRACE T	32.36	25.88	80.0	17.83	55.1
WASHINGTON TOWNSHIP	74	6	3B	DONALDSON, CYNTHIA J	17.31	17.27	99.8	17.31	100.0
WASHINGTON TOWNSHIP	74	6.04	3B	DONALDSON, CYNTHIA J	4.04	4.04	100.0	4.04	100.0
WASHINGTON TOWNSHIP	74	6.03	3B	DONALDSON, CYNTHIA J	3.91	3.91	100.0	3.91	100.0
WASHINGTON TOWNSHIP	74	6.01	3A	BITECOLA, MARY	8.47	8.47	100.0	8.34	98.4
WASHINGTON TOWNSHIP	74	6.02	3B	BITECOLA, MARY	4.13	4.13	100.0	4.13	100.0
WASHINGTON TOWNSHIP	17	6.01	3A	APGAR, BRUCE	8.27	8.27	100.0	6.55	79.2
WASHINGTON TOWNSHIP	67	67	3B	LOWELL, HAROLD & BERNARD	9.08	6.10	67.2	6.15	67.7
WASHINGTON TOWNSHIP	66	20.03	3B	WASHINGTON ACRES LTD PARTNERSHIP	16.01	16.01	100.0	11.51	71.9
WHITE TOWNSHIP	10	33	3A	ERHARDT, VERNON C. & BEVERLY M.	25.44	24.42	96.0	22.53	88.6
WHITE TOWNSHIP	18	60	3A	GLASS ANNA	138.45	59.32	42.8	27.16	19.6
WHITE TOWNSHIP	47	3	3A	UNANGST, OSCAR & LORRAINE	18.94	18.94	100.0	16.86	89.0
WHITE TOWNSHIP	28	2	3B	LINABERRY, SAMUEL	7.85	7.85	100.0	5.42	69.0
WHITE TOWNSHIP	47	12	3B	FUCHS,FREDERICK R/SUPPLEE,MILDRED C	31.43	22.72	72.3	28.79	91.6
WHITE TOWNSHIP	60	5	3B	MENEGUS, RAYMOND N	5.10	5.10	100.0	4.94	96.8
WHITE TOWNSHIP	49	2	3B	RUSTICUS, YKE & MARY C	1.38	1.38	100.0	1.38	100.0
WHITE TOWNSHIP	61	5	3B	KIMBALL, KENT D	44.62	37.39	83.8	29.48	66.1
WHITE TOWNSHIP	7	16	3B	REALTY CO OF PENN%REAL ESTATE GENN5	96.12	83.05	86.4	80.43	83.7
WHITE TOWNSHIP	60	6	3A	MENEGUS, WALTER & MARIA	10.20	10.20	100.0	7.44	73.0
WHITE TOWNSHIP	16	42	3A	RACE, SAMUEL R & JEAN A	85.10	56.24	66.1	58.72	69.0
WHITE TOWNSHIP	21	7	3A	SMITH EARL RICHARD & DONALD W	85.19	71.00	83.3	73.44	86.2
WHITE TOWNSHIP	33	20	3A	ROTHMAN, ARTHUR R & JOAN E	15.12	10.55	69.8	9.38	62.0
WHITE TOWNSHIP	59	1	3B	THOMPSON, ROBERT & GLORIA	43.68	43.58	99.8	43.59	99.8
WHITE TOWNSHIP	47	13	3B	BODOLSKY, THOMAS & JAYNE	14.98	14.98	100.0	14.98	100.0

Farmland Property Value Analysis

Round Year	Category	Farm number in category	Acres	Appraisal number	1/1/2004		Current		Appraiser	Easement Value Change
					Fee	Easement	Fee	Easement		
2006	Preservation	1	43.83	Appraisal 1	\$11300	\$7900	\$4100	\$700	H&H	-91%
				Appraisal 2	\$11800	\$8000	\$9300	\$5500	MGM	-31%
2006	Preservation	2	46	Appraisal 1	\$8900	\$5300	\$4200	\$600	H&H	-88%
				Appraisal 2	\$9590	\$4590	\$5500	\$500	Curran	-89%
2006	Preservation	3	134.38	Appraisal 1	\$7700	\$5400	\$3000	\$700	H&H	-87%
				Appraisal 2	\$8000	\$4200	\$4560	\$760	Curran	-81%
2006	Preservation	4		Appraisal 1	\$5100	\$1400	\$4600	\$1300	Heffernan	-7%
				Appraisal 2	\$9200	\$5800	\$6440	\$3040	MGM	-47%
2006	Planning	1	103	Appraisal 1	\$6800	\$3300	\$7200	\$3500	MGM	+6%
				Appraisal 2	\$11500	\$7500	\$11500	\$7500	Heffernan	n/c
2006	Planning	2	62.35	Appraisal 1	\$9700	\$5300	\$9700	\$5300	Heffernan	n/c
				Appraisal 2	\$13600	\$7900	\$13600	\$7900	Curran	n/c
2006	Planning	3	49.5	Appraisal 1	\$12300	\$8000	\$11500	\$7200	Heffernan	-10%
				Appraisal 2	\$10600	\$7200	\$10600	\$7200	H&H	n/c
2006	Planning	4	112.43	Appraisal 1	\$9200	\$6000	\$9200	\$6000	Curran	n/c
				Appraisal 2	\$10200	\$6500	\$10200	\$6500	Heffernan	n/c
2006	Planning	5	126.68	Appraisal 1	\$8400	\$6800	\$9000	\$7340	MGM	8%
				Appraisal 2	\$5600	\$2000	\$5600	\$2000	Orbaker	n/c
2006	Planning	6	45	Appraisal 1	\$9500	\$5250	\$9500	\$5250	Heffernan	n/c
				Appraisal 2	\$10400	\$4900	\$10400	\$4900	Orbaker	n/c
2006	Planning	7	113	Appraisal 1	\$8350	\$5350	\$8000	\$5000	Heffernan	-6%
				Appraisal 2	\$6800	\$4300	\$6400	\$3900	H & H	-9%
2006	Planning	8	274	Appraisal 1	\$10000	\$6200	\$9800	\$6000	Heffernan	-3%
				Appraisal 2	\$7900	\$5000	\$7500	\$4600	H & H	-8%
2006	Skylands	1	47.74	Appraisal 1	\$11000	\$6200	\$11000	\$6200	Heffernan	n/c
				Appraisal 2	\$11400	\$7800	\$11400	\$7800	H&H	n/c
2006 Total			1157.91							
2007	Preservation	1	56	Appraisal 1	7000	3100	4500	600	LAND	-81%
				Appraisal 2	11700	4500	11700	4500	ORB	n/c
2007	Preservation	2	55	Appraisal 1	12000	4500	8400	900	Cooper	-80%
				Appraisal 2	6800	1000	6800	1000	Heff	n/c
2007	Preservation	3	84	Appraisal 1	10200	6700	7100	3600	MGM	-53%
				Appraisal 2	8700	5300	4250	1500	Heff	-71%
2007	Preservation	4	53	Appraisal 1	13000	7800	9100	3900	MGM	-50%
				Appraisal 2	13500	8500	8400	3400	Cooper	-60%
2007	Preservation	5	48.5	Appraisal 1	10000	5200	6100	1300	Hef	-75%
				Appraisal 2	9700	5900	6800	3000	MGM	-49%

Key: "Planning" - Appraisals for Farms in Planning Area of Highlands; "Preservation" - Appraisals for Farms in Preservation Area of Highlands; "Skylands" - Appraisals for Farms Outside the Highlands (Skylands)

Farmland Property Value Analysis

Round Year	Category	Farm number in category	Acres	Appraisal number	1/1/2004		Current		Appraiser	Easement Value Change
					Fee	Easement	Fee	Easement		
2007	Preservation	6	12	Appraisal 1	14000	3500	10500	0	Cooper	-100%
				Appraisal 2	14500	2000	14500	2000	Hef	n/c
2007	Preservation	7	46	Appraisal 1	9700	3900	6500	700	Hef	-82%
				Appraisal 2	11900	8400	5950	2450	Curr	-70%
2007	Preservation	8	66	Appraisal 1	8700	5000	6500	2800	Cooper	-44%
				Appraisal 2	7600	3000	6600	2000	Hef	-33%
2007	Preservation	9	95	Appraisal 1	8200	4700	4500	1000	MGM	-78%
				Appraisal 2	6800	4700	4100	2000	Cooper	-57%
2007	Planning	1	100	Appraisal 1	12500	7900	12500	7900	Hef	n/c
				Appraisal 2	7200	3000	5000	2000	MGM	-33%
2007	Planning	2	91	Appraisal 1	9500	6800	9000	6300	Cooper	-7%
				Appraisal 2	8900	4900	8400	4400	Hef	-10%
2007	Planning	3	161	Appraisal 1	9000	5700	9000	5700	MGM	n/c
				Appraisal 2	7600	3600	7600	3600	Cooper	n/c
2007	Planning	4	30	Appraisal 1	12300	7800	12300	7800	Cooper	n/c
				Appraisal 2	11700	7900	11700	7900	Collins	n/c
2007	Planning	5	50	Appraisal 1	13500	8300	13500	8300	Cooper	n/c
				Appraisal 2	15000	7500	15000	7500	Collins	n/c
2007	Planning	6	69	Appraisal 1	8200	4500	8200	4500	Cooper	n/c
				Appraisal 2	14500	4500	14500	4500	Collins	n/c
2007	Planning	7	75	Appraisal 1	9500	6700	9500	6700	Cooper	n/c
				Appraisal 2	10500	3700	10500	3700		n/c
2007	Planning	8	114	Appraisal 1	8300	6400	7300	5400	Cooper	-15%
				Appraisal 2	9500	3500	9500	3500	Collins	n/c
2007	Planning	9	59	Appraisal 1	7600	3000	7600	3000	Cooper	n/c
				Appraisal 2	12200	8700	12200	8700	MGM	n/c
2007	Planning	10	76	Appraisal 1	8000	3900	8000	3900	Cooper	n/c
				Appraisal 2	8500	4000	6395	1875	Curr	-53%
2007	Planning	11	136	Appraisal 1	8300	4800	7900	4400	Cooper	-8%
				Appraisal 2	12000	7300	7700	3000	MGM	-57%
2007	Planning	12	9	Appraisal 1	14000	3500	14000	3500	Cooper	n/c
				Appraisal 2	20000	3000	20000	3000	Hef	n/c
2007	Planning	13	45	Appraisal 1	6600	1900	6600	1900	Hef	n/c
				Appraisal 2	7000	4300	7000	4300	Cooper	n/c
2007	Planning	14	12	Appraisal 1	22500	0	18900	0	MGM	n/c
				Appraisal 2	20000	2000	20000	2000	Hef	n/c
2007	Planning	15	10	Appraisal 1	36000	20000	36000	20000	Cooper	n/c
				Appraisal 2	45000	20500	45000	20500	Hef	n/c

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Farmland Property Value Analysis

Round Year	Category	Farm number in category	Acres	Appraisal number	1/1/2004		Current		Appraiser	Easement Value Change
					Fee	Easement	Fee	Easement		
2007	Planning	16	37	Appraisal 1	13900	9200	13900	9200	Cooper	n/c
				Appraisal 2	18200	11900	12700	6400	MGM	-46%
2007 Total			1589.5							
2008	Preservation	1	70	Appraisal 1	12000	7600	4800	0	MGM	-100%
				Appraisal 2	14300	6800	10010	2510	Lndmk	-63
2008	Preservation	2	78	Appraisal 1	13000	6500	6400	0	MGM	-100%
				Appraisal 2	15400	7500	10780	2880	Lndmk	-62%
2008	Preservation	3	25	Appraisal 1	17200	8100	12949	2940	Lndmk	-63%
				Appraisal 2	17000	5500	11500	0	Hef	-100%
2008	Preservation	4	92	Appraisal 1	10000	7000	3000	0	MGM	-100%
				Appraisal 2	15000	9000	8250	2250	HEF	-75%
2008	Preservation	5	84	Appraisal 1	12500	6700	7800	1100	MGM	-85%
				Appraisal 2	11500	6000	7600	2100	HEF	-65%
2008	Preservation	6	84	Appraisal 1	8700	4400	4400	0	MGM	-100%
				Appraisal 2	14000	6000	9400	1400	HEF	-76%
2008	Preservation	7	51	Appraisal 1	6200	2400	3800	0	MGM	-100%
				Appraisal 2	14000	7200	8400	1600	Lndmk	-77%
2008	Preservation	8	77	Appraisal 1	9600	4000	5600	0	MGM	-100%
				Appraisal 2	12700	5700	7620	620	Lndmk	-77%
2008	Preservation	9	68	Appraisal 1	9700	4900	9700	4900	MGM	n/c
				Appraisal 2	8000	3200	5300	500	HEF	-80%
2008	Preservation	10	78	Appraisal 1	9300	3500	5800	0	MGM	-100%
				Appraisal 2	9500	4000	6300	800	HEF	-84%
2008	Preservation	11	72	Appraisal 1	9800	3600	4600	1000	MGM	-73%
				Appraisal 2	17000	11300	16000	10300	Swift	-9%
2008	Planning	1	110	Appraisal 1	7500	3400	7500	3400	Hef	n/c
				Appraisal 2	9500	4500	9500	4500	Curran	n/c
2008	Planning	2	77	Appraisal 1	9000	4000	9000	4000	Swift	n/c
				Appraisal 2	10100	2500	10100	2500	Lndmk	n/c
2008	Planning	3	77	Appraisal 1	11200	6000	11200	6000	MGM	n/c
				Appraisal 2	10100	2700	10100	2700	Lndmk	n/c
2008	Planning	4	37	Appraisal 1	14400	6700	14400	6700	Hef	n/c
				Appraisal 2	12500	3500	11500	2500	Lndmk	-28%
2008	Planning	5	14	Appraisal 1	22000	2000	22000	2000	Hef	n/c
				Appraisal 2	17500	10900	17500	10900	Swift	n/c
2008	Planning	6	50	Appraisal 1	17000	8300	15500	6800	Lndmk	-18%
				Appraisal 2	17000	8500	16000	7500	Orb	-11%

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Farmland Property Value Analysis

Round Year	Category	Farm number in category	Acres	Appraisal number	1/1/2004		Current		Appraiser	Easement Value Change
					Fee	Easement	Fee	Easement		
2008	Planning	7	53	Appraisal 1	7100	800	7100	800	MGM	n/c
				Appraisal 2	7500	1900	5600	0	Lndmk	-100%
2008	Planning	8	59	Appraisal 1	37698	28998	37698	28998	Lndmk	n/c
				Appraisal 2	38000	30400	38000	30400	Hef	n/c
2008	Planning	9	10	Appraisal 1	30500	25000	30500	25000	MGM	n/c
				Appraisal 2	23000	3000	23000	3000	Hef	n/c
2008	Planning	10	29	Appraisal 1	8800	700	8800	700	Lndmk	n/c
				Appraisal 2	14000	2000	14000	2000	Hef	n/c
2008	Planning	11	36	Appraisal 1	20000	10900	20000	10900	Lndmk	n/c
				Appraisal 2	19000	9600	19000	9600	Hef	n/c
2008 Total			1331							

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